

Course Syllabus - Introductory Genetics 3200/5200 Section A– Spring 2018
Lecture

Assessment/Grading policy: Final letter grades will be based upon a 10 point scale. Homework assignments will constitute 15% of the overall grade, lecture tests will compose 75% of the overall grade

1) **Three Lecture Exams & Final** (each 25%, up to 75%): Students will be tested on their knowledge,

Office is located in Farbar Hall. The phone numbers are 229-245-2498 (V), 229-375-5871 (VP) and 229-219-access@valdosta.edu.

Title IX Statement: Valdosta State University (VSU) is committed to creating a diverse and inclusive work and learning environment free from discrimination and harassment. VSU is dedicated to creating an

April

Wednesday 4 Test 3

Monday 30 Last class day

May

Thursday 3 Final test **2:45 – 4:45 PM**

Course outcomes:

Departmental Outcomes as listed in the undergraduate catalogue (page 108):

The program of study in the Department of Biology has numerous desired outcomes. Examples of these outcomes include the following:

Educational Outcomes

1. Develop and test hypotheses, collect and analyze data, and present the results and conclusions in both written and oral formats used in peer-reviewed journals and at scientific meetings.
2. Describe the evolutionary processes responsible for biological diversity, explain the phylogenetic relationships among the major taxa of life, and provide illustrative examples.
3. Demonstrate an understanding of the cellular basis of life.
4. Relate the structure and the function of DNA/RNA to the development of form and function of the organism and to heredity.
5. Interpret ecological data pertaining to the behavior of the individual organism in its natural environment; to the structure and function of populations, communities, and ecosystems; and to human impacts on these systems and the environment.

Specific course outcomes keyed to departmental and university expected educational outcomes:

By the end of this course, as demonstrated by performance on tests, homework problems and written laboratory reports, students will:

1. know and understand basic principles and relevant examples of Mendelian inheritance. (**departmental outcomes 1 through 5, university outcome 5**).
2. know and understand non-Mendelian principles and relevant examples of inheritance. (**departmental**

10. know and understand population genetic effects on gene pools and microevolution. (**departmental outcomes 2, 4 and 5, university outcome 5**).
11. know and understand the relevance of population genetic effects to macroevolution. (**departmental outcomes 1, 2 and 5 university outcome 5,**).
12. use statistical methods to analyze population data sets to test evolutionary hypotheses relating to selection, migration, mutation and genetic drift. (**departmental outcomes 1, 2 and 5, university outcome 3, 5 and 7**).