

- ✓ Refresh knowledge on basic concepts in genomics
- ✓ Learn basic principles in bioinformatics
- ✓ Familiarize with public databases and analysis tools of bioinformatics

## BIOL 4540 / 6540: Bioinformatics (Spring 2023, CRN: 26258 / 26259)

### 1. Course Information

- 

### 5. Assignments and Assessment

Exam 1:	100
Exam 2:	100
Exam 3:	100
Final:	200

Graduate students will have additional assessment of completing a term paper (100 pts).

Scale: A  $\geq$  90%, B  $\geq$  80%, C  $\geq$  60%, D  $\geq$  40%, F < 40%

6. Schedule of Activities or Assignments, including university -scheduled final exam time (all schedule is tentative and may be subject to change)

Week	Date	Topic
1	1/9 – 1/13	Introduction Research Overview Ch1 The Perennial Question
2	1/16 – 1/20	<a href="#">Jan 16 MLK Holiday</a> Ch2 The Nature of Biological Information
3	1/23 – 1/27	Ch3 DNA: The Molecules Ch4 The Evolution of Biological Complexity
4	1/30 – 2/3	Ch4 The Evolution of Biological Complexity Ch5 Cooperating Genomes; Ch6 DNA, Information and Complexity Ch7 Origins of Complexity; Ch8 The Complexities of Societies Ch9 Why DNA and Not RNA
5	2/6 – 2/10	<b>Exam 1</b> Introduction to Mathematica Linear Regression Analysis using Mathematica

6

## 7. Classroom Policy

### **Accommodations Statement**

Students with disabilities who are experiencing barriers in this course may contact the Access Office (<https://www.valdosta.edu/student/disability/>) for assistance in determining and implementing