

- ✓ 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

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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	Jan 16 MLK Holiday 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	Exam 1 Introduction to Mathematica Linear Regression Analysis using Mathematica

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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