

Anthropology/Biology 3138: 2019
Introduction to DNA Molecular Methods

Instructor: Felicia Joseph
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Time & Place: Lecture/Laboratory Fridays 1:30 pm – 5:30 pm CB3012
Marks & Grading: Lab Reports- 50% (5 laboratory write ups worth 10% each)
Midterm Exam- 15%
Final Exam- 20%
Assignment- 15%

Schedule:

September 6:	Lecture 1	Basic Techniques
September 13:	Lecture 2 Laboratory 1	The Nature of DNA Laboratory Safety/ Basic Lab Techniques
September 20:	Lecture 3 Laboratory 2	Extraction Chemistry and Techniques The Nature of DNA
September 27:	Lecture 4 Laboratory 3	Purification Chemistry Extraction Methodologies
October 4:	Laboratory 3	Extraction Methodologies
October 11:	Lecture 5	Polymerase Chain Reaction
October 18:	Mid-Semester Study Break	
October 25:	Midterm	
November 1:	Lecture 6 Laboratory 4	Electrophoresis PCR Amplification
November 8:	Lecture 7 Laboratory 4	DNA Detection and Quantification PCR Amplification
November 15:	Lecture 8 Laboratory 5	DNA Sequencing DNA Sequence Analysis
November 22:	Lecture 9 Laboratory 5	DNA Data Analysis DNA Sequence Analysis
November 29:	Lecture 10 Laboratory 5	Various Other Techniques and Exam Review Sequencing Alignment