

Anthropology/Biology 3138: 2017
Introduction to DNA Molecular Methods

Instructor:	Carney Matheson	
Office Hours:	BB2001E (Braun Building) 343 8743 or cmatheso@lakeheadu.ca	
Time & Place:	Lecture/Laboratory Thursday 9:30 am – 1:30 pm	
Marks & Grading:	Lab Reports	50%
	Midterm Exam	15%
	Final Exam	20%
	Assignment	15%

Schedule:

September 7:	Lecture 1	Basic Techniques
September 14:	Lecture 2	The Nature of DNA
	Laboratory 1	Laboratory Safety/ Basic Lab Techniques
September 21:	Lecture 3	Extraction Chemistry
	Laboratory 2	The Nature of DNA
September 28:	Lecture 4	Purification Chemistry
	Laboratory 3	Extraction Methodologies
October 5:	Lecture 5	Polymerase Chain Reaction
	Laboratory 3	Extraction Methodologies
October 12:	Mid-Semester Study Break	
October 19:	Midterm	
October 26:	Lecture 6	Electrophoresis
	Laboratory 4	PCR Amplification
November 2:	Lecture 7	DNA Detection and Quantification
	Laboratory 4	PCR Amplification
November 9:	Lecture 8	DNA Sequencing
	Laboratory 5	DNA Sequence Analysis
	Laboratory 6	Real time PCR
November 16:	Lecture 9	DNA Data Analysis
	Laboratory 5	DNA Sequence Analysis
	Laboratory 6	Real time PCR
November 23:	Laboratory 5	DNA Sequence Analysis
	Laboratory 6	Real time PCR
November 30:	Lab and Final Exam	