

Anthropology/Biology 3138: 2015  
Introduction to DNA Molecular Methods

Instructor:	Carney Matheson	
Office Hours:	BB2001E (Braun Building) 343 8743 or <a href="mailto:cmatheso@lakeheadu.ca">cmatheso@lakeheadu.ca</a>	
Time & Place:	Lecture Wednesday 9:30 pm – 11:30 pm Laboratory Wednesday 11:30 pm – 1:30 pm	
Marks & Grading:	Lab Reports	50% (5 laboratory write ups worth 10% each)
	Midterm Exam	15%
	Final Exam	20%
	Assignment	15%

**Schedule:**

September 16:	Lecture 1 Laboratory	Basic Techniques Laboratory Safety and
September 23:	Lecture 2 Laboratory 1	The Nature of DNA Basic Laboratory Techniques
September 30:	Lecture 3 Laboratory 2	Extraction Chemistry The Nature of DNA
October 7:	Lecture 4 Laboratory 3	Purification Chemistry Extraction Methodologies
October 14:	Lecture 5 Laboratory 3	DNA Detection and Quantification Extraction Methodologies
October 21:	Lecture 6 Laboratory 3	History of the Polymerase Chain Reaction Extraction Methodologies
October 28:	Midterm	
November 4:	Lecture 7 Laboratory 4	Electrophoresis PCR Amplification
November 11:	Lecture 8 Laboratory 4	DNA Sequencing PCR Amplification
November 18:	Lecture 9 Laboratory 5	DNA Data Analysis DNA Sequence Analysis
November 25:	Lecture 10 Laboratory 5	Various other techniques Sequence Alignment
December 2:	Lab and Final Exam	