



CONTINUING GENEALOGICAL STUDIES

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**GENETIC GENEALOGY,  
AUTOSOMAL DNA**



## Autosomal DNA - Read Me First

- License
- Using the Course Material
- Code of Conduct
- Syllabus
- Objectives of the Course
- Process

## Module 1: atDNA and X-DNA Inheritance

- 1.1 – Review
- 1.2 – Chromosome Recombination
- 1.3 – Chromosome Inheritance
- 1.4 – X Inheritance and Recombination Patterns
- 1.5 – Focus Lines X-DNA Ancestor Tables
- 1.6 – Percent of Shared DNA Expected
- Quiz 1. atDNA and X-DNA Inheritance

## Module 2: DNA Test Results and Your Match List

- 2.1 – DNA Test Results
- 2.2 – Importance of Saving Copies of Your Data on Your Computer
- 2.3 – Importance of Understanding Terms of Service and Optional Offerings of Testing Companies
- 2.4 – Analyzing Your Match List
- 2.5 – The Contents of the First Contact Message
- 2.6 – Sample Message
- 2.7 – Tracking Correspondence
- Quiz 2. DNA Test Results and Your Match List

## Module 3: DNA Segment Analysis Concepts and Tools

- 3.1 – The Importance of Accurate, Extensive, Well-Researched Family Trees
- 3.2 – Centimorgan Measurements
- 3.3 – Why Small DNA Segments Should not be a Primary Focus of Analysis
- 3.4 – Segment Data Defining the Locations of the Shared DNA



- 3.5 – The Importance of Triangulation (Multiple Matches on Same Segment with Same Proven Ancestors)
- 3.6 – Chromosome Browsers and Similar Tools
- 3.7 – Why a Known Cousin may not Show on a Match List
- 3.8 – Beginning Analysis of DNA Matches
- 3.9 – Confirming Your Prior Research – with Trees
- Quiz 3. DNA Segment Analysis Concepts and Tools

#### Module 4: Detailed Segment Data Analysis

- 4.1 – Spreadsheet Techniques
- 4.2 – Adding in Common with Tracking (ICW and Matrix)
- 4.3 – Confirm Prior Research – with Triangulation
- 4.4 – Finding Unknown Ancestors or Clues to Locate Them
- Quiz 4. Detailed Segment Data Analysis

#### Module 5: atDNA Admixture Estimates

- 5.1 – Scientific Population Database and Algorithm Variations
- 5.2 – Comparison of Tested DNA to Population Database
- 5.3 – Why Admixture Percentages may not Match Your Expectations
- Quiz 5. atDNA Admixture Estimates

#### Module 6: Raw DNA Data

- 6.1 – Marker Names
- 6.2 – Chromosome and Position
- 6.3 – Allele Values
- 6.4 – Phasing
- 6.5 – Data Integrity
- Quiz 6. Raw DNA Data

#### Module 7: Introduction to Third-Party Tools

- 7.1 – GEDMatch.com
- 7.2 – Kitty Cooper's Chromosome Mapping Tool
- 7.3 – GGK - Genetic Genealogy Kit at Genetic Genealogy Tools
- 7.4 – DNAged.com



- 7.5 – GenomeMate

Conclusion

Course Survey

Glossary

Reading and Reference List