

Syllabus for BINF 637 – Forensic DNA Analysis

Course Organizer: Saleet Jafri, sjafri@gmu.edu, 703-993-8420
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Time and Location: Mondays 4:30-710, Room 248 Bull Run Hall, Prince William Campus

Catalog Course Description: Intensive introduction to parameters affecting data QC and analysis, including factors arising from biochemistry, chemistry, genetics, statistics, instrumentation, and software.

Prerequisites: Graduate standing or permission of instructor

Textbook: *Forensic DNA Typing* by John M. Butler 2nd Edition.

Grading Policy: 30% Midterm, 30% Project, 40% Final

Schedule

Monday, January 28, 2008 – Don Seto: DNA Biology, Sequencing and PCR
Monday, February 4, 2008 – Don Seto: DNA Biology, Sequencing and PCR
Monday, February 11, 2008 – Saleet Jafri/Jason Kinser – Bioinformatics in DNA Analysis
Monday, February 18, 2008 – Sam Bechtel: Nuclear DNA Exams: Technical, Reports, Testifying, Calculating Probabilities
Monday, February 25, 2008 – Mark Wilson: STR Typing and Mitochondrial DNA Typing
Monday, March 3, 2008 - John Stuart: Mitochondrial DNA and Missing Persons (tentative)
Monday, March 10, 2008 – Spring Break
Monday, March 17, 2008 – Mid-Term Exam
Monday, March 24, 2008 – Michael Coble: Y Chromosome STR and miniSTRs
Monday, March 31, 2008 – George Riley: Kinship and Parentage testing and Forensic Anthropology/Ancient DNA
Monday, April 7, 2008 - Patrick Gillevet: Case study on testifying on DNA Forensics
Monday, April 14, 2008 – Patrick Gillevet: wet lab demonstrating PCR and sequencing
Monday, April 21, 2008 - Joan Bienvenue: Microfluidic Devices for Forensics
Monday, April 28, 2008 – Student Project Presentations
Monday, May 5, 2008 – Student Project Presentations
Monday, May 12, 2008 – Final Exam