ECS 289A - Modeling Gene Regulation, WQ 2003
Professor: Vladimir Filkov

Schedule of Lectures

January

1/6	(1)	Intro, Syllabus Reading, Bio-Concepts
1/8	(2)	Biotechnologies
1/13	(3)	Computer Science for Biologists
1/15	(4)	Microarray Data Analysis: Normalization, and Differential Expression
1/20	(*)	MLK day, no class
1/22	(5)	Microarray Data Analysis: Classification
1/24	(6)	Microarray Data Analysis: Clustering (Monday class)
1/27	(7)	Modeling in Biology
1/29	(8)	Modeling Gene Regulation and Gene Networks

February

2/3	(9)	Gene Networks I: Static Graph, Weight Matrix (Linear) Models
2/5	(10)	Gene Networks II: Boolean Networks Models
2/10	(11)	Gene Networks III: Bayesian Networks Models, Quiz
2/12	(12)	Gene Networks IV: Bayesian Networks continued
2/17	(*)	President's day, no class
2/19	(13)	Continuous Models of Gene Regulation
2/24	(14)	Continuous Models continued, Review
2/26	(15)	Cis-region Analysis: Motif Finding

March

3/3	(16)	Data Integration I, Review
3/5	(17)	Data Integration II, Review
3/10	(18)	Towards Realistic Models of Gene Regulation, Review
3/12	(19)	Recap and Future of Gene Regulation Modeling, Final Exam Questions

Important Dates

Final Exam Out: **3/11/03 (if take-home, tentative)**
Project Report and Presentation Due Date: **3/20/03 (tentative)**
Final Exam: **3/18/03 (due date if take home)**