



TENTATIVE SYLLABUS

All readings are available on learn@UW

Date	Class topic	Assignment (to be completed <i>before</i> class)
Part I: PROBABILITY (7 days)		
M 17 June	1. Introduction to the course and to logic 2. Combinatorics 3. Exercises on combinatorics	1. Read Handout 1 & Skyrms pp. 12-26 1. Read Mellor pp. 7-13 3. Read Handout 2 & Larson pp. 39-44
T 18 June	1. Solutions to Problem Set #1 2. The unconditional probability calculus 3. Exercises on unconditional probabilities	1. Do Problem Set #1 2. Read Handout 3 3. Read Ross 1.1, 1.2, 1.3, 1.5
W 19 June	1. Solutions to Problem Set #2 2. The conditional probability calculus 3. Exercises on conditional probabilities	1. Do Problem Set #2 2. Read Handout 4 3. Read Ross 1.4, 1.6
R 20 June	1. Solutions to Problem Set #3 2. Discrete random variables 3. Exercises on discrete random variables	1. Do Problem Set #3 2. Read Handout 5 3. Read Ross 2.1, 2.2, 2.4.1
M 24 June	1. Solutions to Problem Set #4 2. Continuous random variables 3. Exercises on continuous random variables	1. Do Problem Set #4 2. Read Handout 6 3. Read Ross 2.3, 2.4.2, 2.8
T 25 June	1. Solutions to Problem Set #5 2. Inductive logic 3. Review for Exam #1	1. Do Problem Set #5 2. Read Handout 7 3. Read Salmon pp. 110-28, 144-53
W 26 June	1. Solutions to Problem Set #6 2. Exam #1 3. Estimating proportions	1. Do Problem Set #6 & Practice Exam #1 2. Read Handout 8 3. Read Gonick & Smith pp. 89-103, 114-27
Part II: STATISTICS (4 days)		
R 27 June	1. Solutions to Problem Set #7 2. Estimating and comparing means 3. Exercises on estimating and comparing means	1. Do Problem Set #7 2. Read Handout 9 3. Read Gonick & Smith pp. 104-9, 128-59, 168-79
M 1 July	1. Solutions to Problem Set #8 2. Goodness of fit 3. Exercises on goodness of fit	1. Do Problem Set #8 2. Read Handout 10 3. Read Larsen & Marx pp. 398-9, 402-6, 422-7
T 2 July	1. Solutions to Problem Set #9 2. Bayesian statistical inference 3. Review for Exam #2	1. Do Problem Set #9 2. Read Handout 11 3. Read Howson & Urbach pp. 203-11, 353-61, 372-81
W 3 July	1. Solutions to Problem Set #10 2. Review for Exam #2 3. Exam #2	1. Do Problem Set #10 & Practice Exam #2 2. Review part I of the course
Part III: APPLICATIONS (4 days)		
M 8 July	1. Decision theory 2. Exercises on decision theory 3. Newcomb's paradox	1. Read Handout 12 2. Read Salmon pp. 232-47 3. Read Poundstone pp. 239-63
T 9 July	1. Solutions to Problem Set #11 2. Causal reasoning 3. Exercises on causal reasoning	1. Do Problem Set #11 2. Read Handout 13 3. Read Baronett pp. 602-31
W 10 July	1. Solutions to Problem Set #12 2. Analogical reasoning 3. Review for Exam #3	1. Do Problem Set #12 2. Read Handout 14 3. Read Baronett pp. 488-92, 496-504, 518-22
R 11 July	1. Solutions to Problem Set #13 2. Lessons from the course 3. Exam #3	1. Do Problem Set #13 & Practice Exam #3 2. Review all material