Student Info for Mathematical Statistics -- M384C and M384D

Name: ________________________________________

What name should I call you? _____________________

Email address: __________________________________

Educational Goal at UT: __________________________ Dept: _____________

Do you have a mailbox in the Math Dept? ______ Elsewhere on campus? ______

Do you plan to take both semesters of this course, M384C and M384D? _____________

1. List other statistics courses you are taking this semester (dept and name):
   __________________________________________________________________________

2. This course requires instructor permission to enroll. Of course, that can include the graduate
   advisor. Normally that should be the graduate advisor in statistics, but some others are also
   qualified to do this. That person is supposed to assess whether you have the prerequisites for the
   course. Who advised you into this course?
   (It’s OK to write that no one did. In that case, I’ll pay even more attention to the information
   you provide on the second page of this handout.)
   __________________________________________________________________________

3. Do you have an undergraduate probability textbook? ______ If so, what title and author?
   __________________________________________________________________________

4. Do you have an undergraduate mathematical statistics textbook? ______
   If so, what title and author?
   __________________________________________________________________________

5. Have you used some statistical and/or mathematical software? ______
   If so, what?
   __________________________________________________________________________
   Do you currently have access to a computer with this software? ________________

6. Are there any topics you particularly would like to cover in this math stat course? If so,
   what?
   __________________________________________________________________________
7. In what courses you have taken have you covered each of these topics? List the courses in the table at the end of this page, and then refer to them in this top list by the “Ref #” so you don’t have to repeatedly write the title.

   a. Converting an experiment with a random outcome to a random variable and choosing an appropriate probability distribution.  **Course Ref. # _________________**

   b. Basic probability calculations in standard discrete and continuous distributions, including distributions such as the gamma and beta which require skill at handling two parameters.  **Course Ref. # _________________**

   c. Computation of expected values and variances in a variety of distributions.  **Course Ref. # _________________**

   d. Joint and marginal distributions, conditional distributions, covariance, independence.  **Course Ref. # _________________**

   e. Familiarity with basic ideas about sampling and experimental design.  **Course Ref. # _________________**

   f. Use and interpretation of confidence intervals and hypothesis tests.  **Course Ref. # _________________**

   g. Power calculations for hypothesis tests.  **Course Ref. # _________________**

   h. Sampling distributions of sample means and sample proportions.  **Course Ref. # _____**

   i. Sampling distributions of minimum and maximum statistics.  **Course Ref. # _______**

   j. Finding maximum likelihood estimators.  **Course Ref. # _________________**

   k. Comparison of estimators, using bias and comparison of variances.  **Course Ref. # _________________**

List statistics and probability courses you have taken (and passed):

<table>
<thead>
<tr>
<th>Ref #</th>
<th>Name of course</th>
<th>Level (Upper division undergrad, etc.)</th>
<th>Textbook (Title, author, or whatever you remember)</th>
<th>When and where</th>
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