

LIU – POST

MTH 19

Arvind Borde, Basic Statistics, Fall 2017

3 credits

*Classes* Tu | §1: 5:00–7:40, PH 202.

*Website* <http://arvind-borde.org/courses/math19/>

*Instructor* Arvind Borde | [arvind.borde@liu.edu](mailto:arvind.borde@liu.edu) | <http://arvind-borde.org/>

*Office* LS 239; telephone: (516) 299 2447. Hours: T, Th, 12:30–2:00 pm, or by appointment.

*Bulletin* This course is directed toward understanding and interpreting numerical data. Topics covered include: descriptive statistics, regression, correlation, sampling techniques and elements of inferential statistics.

*Text, etc.* *Fundamentals of Statistics*, Fifth Edition. Michael Sullivan. Publisher: Pearson (2017). Dedicated calculator with STAT mode.

*Rules* **Do:** attend all classes, come on time, stay for the duration, pay attention.  
**Don't:** talk among yourselves, be disruptive, text, have your cell phone out. Violating any of these will be marked as an absence and will lead to further disciplinary action. Three or more violations will lead to an automatic F. You may use a computer or tablet to take notes, but must be prepared to sit in the first row if asked.

*Homework & Tests* Weekly homework is on the website. You must attempt it the day it is assigned. If you have difficulties, see me or a tutor *that week itself*. HW will be discussed in the class immediately following. Specific questions will be answered in class, but not general ones about the whole assignment. You must have the homework available in a separate notebook or folder, with your name on each assignment, or clearly marked as such in the class notebook. You must bring the homework and class notebook with you if you want extra help in my office. It is your responsibility to catch up on material you miss for any reason. You should expect to spend 6 hours a week on this course outside class.

Quizzes are “open-notecard” and will be based mainly on material and homework covered since the previous quiz, but familiarity with all material covered up to that point is expected. You will need a dedicated calculator (not cell phone or tablet computer) on all quizzes. *There are no make-up quizzes. If you miss a quiz for any reason you will get a score of –1 on it.* You must keep all your quizzes through the semester.

The complete quiz schedule is on this syllabus.

*Grades* First see the rules above. There will be 6 quizzes. Your 5 best scores will each count 20% toward your grade. There will be a grade boost if you have done all the homework over the term.

*Note* Last day to drop: September 19. Last day to withdraw: November 10.

I have understood the syllabus, course requirements, grading method, and rules, and agree to abide by them. I have retained a copy of this syllabus for my records. I have filled out the form overleaf.

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Name: \_\_\_\_\_

**Name (print clearly):**

**Course section (either number or meeting time):**

**Major:**

**Last math class taken (what, when, where):**

**Career goals:**

**Dream goals (If earning money were not an issue what would your perfect life be like?):**

**Math weaknesses (if any):**

**Math strengths:**

**Anything in particular that you wish to learn in this course:**

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**PLEASE PLACE THIS COPY AT THE FRONT OF YOUR NOTEBOOK/FOLDER  
YOU MUST HAVE IT WITH YOU IN EVERY CLASS**

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Week 1	<i>Tuesday, September 12</i> Ch. 1: <b>Introduction.</b> Review of basic mathematics.		
Week 2	<i>Tuesday, September 19</i> Ch. 2: <b>Organizing data</b>		
Week 3	<i>Tuesday, September 26</i> Ch. 3: <b>Summarizing data</b> Central tendency and dispersion	Test 1: Chapters 1 & 2	score %
Week 4	<i>Tuesday, October 3</i> Ch. 3: <b>Summarizing data</b> Position, outliers, 5-number summary		
Week 5	<i>Tuesday, October 10</i> Ch. 4: <b>Relationships</b> Scatter diagrams and correlation	Test 2: Chapter 3	score %
Week 6	<i>Tuesday, October 17</i> Ch. 4: <b>Relationships</b> Least squares regression		
Week 7	<i>Tuesday, October 24</i> Ch. 5: <b>Probability</b> Basic probability ideas	Test 3: Chapter 4	score %
Week 8	<i>Tuesday, October 31</i> Ch. 6: <b>Discrete probability distributions</b>		
Week 9	<i>Tuesday, November 7</i> Ch. 7: <b>The normal probability distribution</b>	Test 4: Chapters 5 & 6	score %
Week 10	<i>Tuesday, November 14</i> Ch. 8: <b>Sampling distributions</b>		
Week 11	<i>Tuesday, November 21</i> Ch. 9: <b>Estimating values</b>	Test 5: Chapters 7 & 8	score %
Week 12	<i>Tuesday, November 28</i> Ch. 10: <b>Hypothesis tests</b>		
Week 13	<i>Tuesday, December 5</i> Review	Test 6: Chapters 9 & 10	score %

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Final: TBA