

# MATH 175: ELEMENTARY STATISTICS

Spring 2018

**Section DB:** Mondays & Wednesday from 11:20 – 12:50 pm in 1003 West Penn

**Section DC:** Tuesdays & Thursdays from 1 – 2:30 pm in 312 Academic Hall

**Instructor:** Matt Pascal

**Office:** 604 Academic Hall

**Email:** mpascal@pointpark.edu

**Website:** <http://facstaff.pointpark.edu/mpascal>

**Office Hours:** Mon/Wed: 9:30 – 11 and Tue/Thur: 11:15 – 12:45

**Course Website:** <http://facstaff.pointpark.edu/mpascal/175.html>

**Course Materials:** In order to succeed in this course, each student must have access to a copy of

*Elementary Statistics, A Brief Version, Step-by-Step Approach (6<sup>th</sup> or 7<sup>th</sup> ed)* by Allan Bluman

**Policy Issues:** All make-ups and other related issues should be directed to the course instructor. See contact information above. Make-ups may be granted with prior notification for legitimate reasons.

**Course Content:** In this course, you will be exposed to *data analysis and charts, rules of probability, conditional probability, distributions, random variables, sampling, confidence interval estimates, hypothesis testing, regression, and correlation*

**Course Objectives:** Students who succeed in Math 175 will be able to . . .

1. Translate mathematical problems, equations, and ideas into written expressions.
2. Define statistical terms and concepts.
3. Make use of counting methods in probability problems.
4. Apply the fundamental rules of probability.
5. Identify the properties of discrete and continuous probability distributions.
6. Apply mathematical and statistical models such as formulas, functions, graphs, and tables using technology where appropriate.
7. Solve statistical problems using appropriate technology.
8. Represent and interrelate statistical information numerically, symbolically, graphically, verbally, and visually using appropriate technology.
9. Interpret statistical models drawing conclusions and making inferences based on those models.

**Methods:** Multiple forms of assessment will be used to measure your progress in understanding statistics.

- **Quizzes:** There are frequent quizzes in this course. You will be given the chance to ask questions before quizzes. Quizzes cannot be made up though your four worst quiz grades will be dropped when your course grade is computed.
- **Group problems,** facilitated by the instructor, will be completed and submitted in nearly every class. Groupwork cannot be made up though your two worst group activity grades will be dropped before computing your course grade. Groupwork will be available via the course website to be used for quiz practice. If groupwork is not completed in class, then each individual group member may submit their own completed assignment in the following class for full credit.
- **Exams:** There will be two regular exams as well as a comprehensive final exam. Exams may be made up for emergencies with PROMPT notification. The final exam will cover all content from the course. The final exam schedule is made by the college and will be announced when it is available.

**Policy on Academic Integrity:** Just as a violation of a professional code of conduct can have severe consequences in a professional setting, any violation of the standards of academic integrity in this course will have severe consequences. A student who gives or receives unauthorized assistance on graded work or plagiarizes another's work in any way in this course will receive an automatic grade of F for the term. The instructor will impose this penalty after due consideration of all available evidence and after a formal or informal hearing with the student involved. Students may appeal the instructor's decision according to published University policy.

## DISABILITY SERVICES

The University will continue to provide reasonable accommodations for students with disabilities in accordance with the Americans with Disabilities Act (ADA) of 1990. All campus accommodations are coordinated through the Center for Student Success located on the 5th floor of the West Penn Building. Students are responsible for contacting the Center for specific information on the University's ADA policy and the procedures for verifying disabilities and requesting reasonable accommodations. ADA questions should be directed to the Coordinator of Disability Services, Brad Thompson at 412-392-8077 or disabilities@pointpark.edu.

## TUTORING

The Center for Student Success provides support for students who seek tutoring in undergraduate course work. In addition, students may receive assistance with effective study strategies, such as organizing for study, exam preparation, and lecture note taking and annotation. Students may schedule a regular weekly appointment or may schedule appointments as needed. If you would like to request a tutor, please contact Natacia Owens at 412-392-8132 or tutoring@pointpark.edu or visit the West Penn Building, fifth floor.

**Evaluation:** Your course grade will be computed using the following distribution:

Assessment	Portion of Grade
Quizzes ( <i>total of 16 @ 3 points each; two dropped</i> )	42%
Group Activities ( <i>16 assignments @ 2 points each; two dropped</i> )	28%
Exams ( <i>2 exams @ 9 points each</i> )	18%
Comprehensive Final ( <i>12 points</i> )	12%

### Math – Knowing the Content

I. C. Use of mathematical communication to:

- organize and consolidate mathematical thinking
- analyze and evaluate strategies of others
- express mathematical ideas precisely

I. J. Probability and statistics including:

- measures of central tendency and variability
- axioms of probability
- properties of discrete and continuous probability
- discrete and continuous probability distributions
- statistical inference

The schedule on the next page will be followed as closely as possible through the term. Any changes to this schedule will be announced via email and in class and changes will be reflected on the online version of the schedule at the course website: <http://facstaff.pointpark.edu/mpascal/175.html>.

Items on the schedule will be given in class IN THE ORDER THEY APPEAR ON THE SCHEDULE.

Week	Section DB [11:20 am in 1003 WP] Mon	Section DC [1 pm in 312 AH] Tue	Section DB [11:20 am in 1003 WP] Wed	Section DC [1 pm in 312 AH] Thur
1	<b>Jan 8</b> Text: 1.1 – 1.3	<b>Jan 9</b> Text: 1.1 – 1.3	<b>Jan 10</b> Quiz: Q1 Text 1.4 – 1.6	<b>Jan 11</b> Quiz: Q1 Text 1.4 – 1.6
2	<b>Jan 15</b> MLK Holiday	<b>Jan 16</b> Group: G1 Quiz: Q2	<b>Jan 17</b> Group: G1 Quiz: Q2	<b>Jan 18</b> Text 2.1 – 2.4
3	<b>Jan 22</b> Text 2.1 – 2.4	<b>Jan 23</b> Group: G2 Quiz: Q3	<b>Jan 24</b> Group: G2 Quiz: Q3	<b>Jan 25</b> Text 3.1 – 3.2 Group: G3
4	<b>Jan 29</b> Text 3.1 – 3.2 Group: G3	<b>Jan 30</b> Quiz: Q4 Text 3.3 – 3.4	<b>Jan 31</b> Quiz: Q4 Text 3.3 – 3.4	<b>Feb 1</b> Quiz: Q5 Group: G4 (Exam 1 Review)
5	<b>Feb 5</b> Quiz: Q5 Group: G4 (Exam 1 Review)	<b>Feb 6</b> Exam 1	<b>Feb 7</b> Exam 1	<b>Feb 6</b> Text: 4.1 – 4.2 Group: G5
6	<b>Feb 12</b> Text: 4.1 – 4.2 Group: G5	<b>Feb 13</b> Quiz: Q6 Text: 4.3 – 4.4	<b>Feb 14</b> Quiz: Q6 Text: 4.3 – 4.4	<b>Feb 15</b> Quiz: Q7 Text: 4.5
7	<b>Feb 19</b> Quiz: Q7 Text: 4.5	<b>Feb 20</b> Group: G6 Quiz: Q8	<b>Feb 21</b> Group: G6 Quiz: Q8	<b>Feb 22</b> Text: 5.1 – 5.2 Group: G7
	<b>Feb 26</b>	<b>Feb 27</b>	<b>Feb 28</b>	<b>Mar 1</b>
<b>SPRING BREAK</b>				
8	<b>Mar 5</b> Text: 5.1 – 5.2 Group: G7	<b>Mar 6</b> Quiz: Q9 Text: 5.3	<b>Mar 7</b> Quiz: Q9 Text: 5.3	<b>Mar 8</b> Group: G8 Quiz: Q10
9	<b>Mar 12</b> Group: G8 Quiz: Q10	<b>Mar 13</b> Text: 6.1 – 6.2 Group: G9	<b>Mar 14</b> Text: 6.1 – 6.2 Group: G9	<b>Mar 15</b> Quiz: Q11 Group: G10 (Exam 2 Review)
10	<b>Mar 19</b> Quiz: Q11 Group: G10 (Exam 2 Review)	<b>Mar 20</b> Exam 2	<b>Mar 21</b> Exam 2	<b>Mar 22</b> Text: 7.1 – 7.2 Group: G11
11	<b>Mar 26</b> Text: 7.1 – 7.2 Group: G11	<b>Mar 27</b> Quiz: Q12 Text: 7.3 – 7.4	<b>Mar 28</b> Quiz: Q12 Text: 7.3 – 7.4	<b>Mar 29</b> Group: G12 Quiz: Q13
12	<b>Apr 2</b> Group: G12 Quiz: Q13	<b>Apr 3</b> Text: 8.1 – 8.3 Group: G13	<b>Apr 4</b> Text: 8.1 – 8.3 Group: G13	<b>Apr 5</b> Quiz: Q14 Text: 8.4 – 8.5
13	<b>Apr 9</b> Quiz: Q14 Text: 8.4 – 8.5	<b>Apr 10</b> Group: G14 Quiz: Q15	<b>Apr 11</b> Group: G14 Quiz: Q15	<b>Apr 12</b> Text: 10.1 – 10.2 Group: G15
14	<b>Apr 16</b> Text: 10.1 – 10.2 Group: G15	<b>Apr 17</b> Quiz: Q16 Group: G16 (Final Exam Review I)	<b>Apr 18</b> Quiz: Q16 Group: G16 (Final Exam Review I)	<b>Apr 19</b>  Final Exam Review II
15	<b>Apr 23</b>  Final Exam Review II	<b>Apr 24</b>	<b>Apr 25</b>	<b>Apr 26</b>
<i>Final Exam: Times and Dates will be announced later</i>				