

EDITION DATE: Fall 2020 as of 8/22/2020: (subject to revision)

COURSE: Math 1530-Probability and Statistics

INSTRUCTOR: Mike Marks **E-MAIL:** marksm@etsu.edu

OFFICE HOURS: Appointment through Zoom

OFFICE: McCune-Welch 315 **OFFICE PHONE:** 392-8028

PREREQUISITE: Two years of high school algebra.

TEXTBOOK: The Basic Practice of Statistics, by David S. Moore, William Notz, Michael Fligner 8th Ed., Freeman, 2018. ISBN 9781319226145.

TOPICS: Chapters 1, 2, 3, 4, 5, 6, 8, 9, 12, 13, 14, 15, 16, 17, 18, 20, 21, 22, 25

TECHNOLOGY: A calculator that does basic math is sufficient. MINITAB, a statistical software package, will be introduced and used in the class. Minitab19 is available using AWS Appstream 2.0 or any university computer lab.

GOALS & OBJECTIVES: To develop a basic understanding of probability and statistics and how they relate to the world around us.

GRADING: The course grade will be based on learning curve assignments, homework, capstone assignment, and exams.

LEARNING CURVE ASSIGNMENTS: There will be 19 assignments (one for each chapter) administered through Sapling Learning. They are listed under Learning Curve assignments. You will earn 2.5 points for each assignment that you reach the target score (you will see a score of 5/5 in the Sapling Learning gradebook) and you will earn 2.5 points for completing all the assignments. These learning curve assignments must be completed by Sunday December 6, 2020 at 11:59 p.m.

HOMEWORKS: The homework will be assigned in the class prior to the class that it is due. There will be between 5 to 10 homework assignments. The homework assignments will be problems out of the textbook. You will upload your completed homework assignment to the Dropbox in D2L titled HW1, HW2, etc. You have until I publish the feedback for the homework assignment to turn it in.

Usually this is the next class period. **THERE WILL BE NO MAKEUP HOMEWORK**

ASSIGNMENTS.

CAPSTONE ASSIGNMENT: This will be a Minitab assignment given near the end of the semester. Due date to be announced.

EXAMS: There will be in-class 2 exams. The exams will be announced a week prior to being given.

FINAL: A comprehensive departmental final examination will be given. It will be given Thursday December 10, 2020 from 6:00 p.m. to 8:00 p.m.

All exams will be given through D2L.

Your grade will be determined as follows:

LEARNING CURVE ASSIGNMENTS:	50 points
HOMEWORKS:	250 points
EXAMS:	400 points
CAPSTONE ASSIGNMENT:	100 points
FINAL:	200 points

Letter grades will then be assigned according to the following:

950-1000 A 880-899 B+ 800-819 B- 720-779 C 650-699 D+
900-949 A- 820-879 B 780-799 C+ 700-719 C- 600-649 D

Less than 600 F

For extremely low scores on the Final (less than 80 points or 40%), the student will be assigned a semester grade of F.

DEPARTMENTAL ATTENDANCE REQUIREMENTS:

The Department of Mathematics strongly advises students to attend all mathematics classes when physically able. Because there is a positive correlation between attendance and student success in mathematics, the following guidelines will be used in all mathematics courses. Regardless of the reasons for the absences, should a student exceed the following limits, the instructor has the authority to assign a grade of FN or F. This policy takes precedence over the grade assignment policy for MATH 1710 and MATH 1530:

- 7 absences for classes scheduled for MWF.
- 5 absences for classes scheduled for TR classes or any other 2 days/nights per week.
- 3 absences for classes scheduled for one evening per week.
- 9 absences for all daytime sections of a 4-hour course

BONUS FOR GOOD ATTENDANCE (after the first week)

50 points will be added to the above total before the grade is assigned. However the 50 points may be decreased. After the first week, the bonus will be reduced by 10 points for each absence.

ITV CLASS

This class is being digitally recorded. The instructions for watching the recordings are in D2L in the box titled Zoom Web Conference.

TUTORING: CFAA The tutoring for Fall 2020 will be online. Visit their website (<https://www.etsu.edu/students/cfaa/learning/online-help.php>) for instructions about how to schedule and participate in an online tutoring session.

220 McCune-Welch to be announced

ITS HELP: 439-4648

SUGGESTED EXERCISES:

The suggested exercises are in D2L under Content/Syllabus.