Meet time: 9:30am – 10:45am Tuesday and Thursday

Classroom: 203 Folsom Hall

Office: 310 South Hall.

Phone number: 768-9444

e-mail: zhuqi.lu@umpi.edu

Office hours: 12:00pm -- 3:00pm Monday or by appointment. You may come to my office any time, or leave a short note on my office box, or leave a message on my phone or e-mail.

Welcome to Mat 101, an introduction course of statistics. The goal of this course is to present the basic ideas of statistics to the students in different fields. Upon completion of this course, the student will have understood producing data, organizing, analyzing data and inference. This course is “algebraic based”, which are accessible to students with limited quantitative background.

Prerequisites: Three units of college-track high school mathematics, or UMPI algebra placement test score of at least 55, or mat 17 Elementary Algebra.

Course Description: Descriptive statistics, probability, random variables, mathematical expectation, probability distributions, confidence intervals, and hypothesis test.

Goals: Upon completion of this course, the student will have understood
1. Producing data
2. Organizing and analyzing data
3. Inference
Also, after this course, Students will be able to perform college-level mathematical operations.

<<The Basic Practice of Statistics >>
ISBN: 1-4641-0434-4
Publisher: W. H. Freeman and Company

Calculator: Calculator is required. Any calculator that does the 2-variable-statistical functions, such as TI-36 (Approx. $15-$20) works for this course. TI-83 and TI-83 plus are the best statistics calculators among the $100 - $150 calculators. If you often need to solve statistics problems in the future, I suggest you buy a TI-83. Also, many applied examples from our textbook are with TI-83 output result. But, TI-83 is not the only calculator you need to buy. You can do all homework and exam question with a $15 calculator.

Statistics Software: Excel and Minitab are available in the school network. It is not required for this course, but it is recommended to use to solve some homework problems.
Course Schedule:

Week 1  Introduction, Chapter 1, Picturing distribution with Graphs,
Week 2  Chapter 2 Describe distribution with numbers;
Week 3  Chapter 3 Normal Distribution;
Week 4  Review of Chapter 1—3; Exam 1;
Week 5  Chapter 11, Sampling distribution;
Week 6  Chapter 11; Chapter 14 Confidence interval;
Week 7  Chapter 14, Chapter 15; Test of Significance;
Week 8  Chapter 15; Chapter 16 Inference in Practice;
Week 9  Chapter 16; Review of 11, 14, 15 and 16;
Week 10  Review of 11, 14, 15 and 16; Exam 2;
Week 11  Chapter 4 Scatterplots;
Week 12  Chapter 4; Chapter 5 Linear regression;
Week 13  Chapter 5;
Week 14  Review of Chapter 4 and 5; Exam 3
Week 15  Review Chapters: 1, 2, 3, 11, 14, 15, 16, 4, and 5.
Final Exam

Homework: Approximately 1/3 of the questions from the textbook will be assigned as the hand in homework. I will collect homework of previous week on Thursday of the current week, except the week before chapter or final examinations. (For example, I will collect the first week homework on Thursday of the second week.) No grade is given on homework.

Exams: Three one-hour Chapter exams plus a two-hour final exam.

Attendance: Everyone must be in every lecture unless the emergency. Any absences must be justified by appropriate documentation. Do not miss more than three classes. If you must miss class (especially if you have used up your allowed absences), speak to me first. Depending upon severity, excessive absences will result in a significant grade reduction and/or failure.

Final grade: Attendance and homework: 20%
Chapter exams: 40%
Final exam: 40%

Academic Honesty Statement:
The academic community of the University of Maine at Presque Isle recognizes that adherence to high principles of academic integrity is vital to the academic function of the University. Academic integrity is based upon honesty. All students of the University are expected to be honest in their academic endeavors. All academic work should be performed in a manner which will provide an honest reflection of the knowledge and abilities of each student. Any breach of academic honesty should be regarded as a serious offense by all members of the academic community.

Accommodations:
The University of Maine at Presque Isle provides reasonable accommodations upon request to qualified individuals with documented disabilities. Students with documented disabilities have a right to ask for accommodations and are encouraged to talk directly with the responsible faculty member, supervisor or other staff person to explore possible accommodations. For assistance with accommodations or academic support services, contact Mary Kate Barbosa, Director of Student Support Services, South Hall, at 768-9613 or by email at mary.barbosa@umpi.edu. A copy of the accommodations request form can be found at http://www.umpi.edu/current-students/sss/disability-services/registration.

Tutoring:
Student Support Services offers tutoring to all students for all courses via experienced professional and peer tutors. If you are interested in receiving tutoring, please contact Mr. Malcolm Coulter, at 768-9617 or by e-mail at malcolm.coulter@umpi.edu.