

UNH Manchester

COMP 490.M1: Statistics in Computing and Engineering

Spring 2019 Course Syllabus

General Course Information

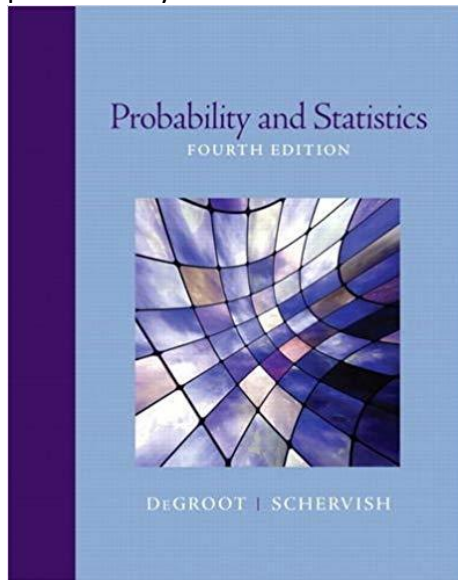
Instructor: Mateusz (Matt) Pacha-Sucharzewski

Email: mp11@wildcats.unh.edu (it's with an eleven and NOT an "LL")

Class Time & Location: Mondays 5:31 PM – 8:30 PM, Pandora Building (UNHM) P146

Office Hours: Shortly before and right after class or by appointment.

Textbook: *Probability and Statistics*, 4th ed., 2012, by Morris H. DeGroot & Mark J. Schervish, published by Pearson



Course CRN: 54673

Credits: 4.0

Term: Spring 2019 - UNHM Credit (15 weeks) (01/28/2019 - 05/13/2019)

Course Description

An introduction to tools from probability and statistics that are needed by computing and engineering professionals. Exploratory data analysis including graphic data analysis, discrete and continuous probability distributions, inference, linear regression, and analysis of variance, with applications from artificial intelligence, machine learning, data mining, and related topics. Project work and use of statistical software are an integral part of the course.

Prereq: MATH 425\MATH 424B\MATH 424A.

Grading Policy

Attendance & Participation: 5% (please attend regularly and be actively involved)

Quizzes: 20%

Midterm Exam (1): 25%

Mini-Projects: 25% (varying amount of points for each mini-project)

Final Exam: 25%

Final grade will be based on your overall percentage in the following way:

A: 93% – 100% A-: 90% – 92.99%

B+: 87% – 89.99% B: 83% – 86.99% B-: 80% – 82.99%

C+: 77% – 79.99% C: 73% – 76.99% C-: 70% – 72.99%

D+: 67% – 69.99% D: 63% – 66.99% D-: 60% – 62.99%

F: 0% – 59.99%

The instructor reserves the right to select the more appropriate final grade in any borderline case (up to +/- 1 %).

Quizzes and Exams

There will be a quiz or an exam every week, unless stated otherwise. You will receive a grade of 0 for any quiz or exam that you miss. You will only be able to make up a missed quiz or exam if you prove a valid reason for having to miss it or if you make appropriate arrangements with the instructor prior to the quiz or exam that you have to miss.

Homework

A few mini-projects will be assigned as homework and graded. There will be no other graded homework. Suggested practice problems will not be collected nor graded.

Extra Credit

Occasionally, extra credit questions will appear on quizzes and/or exams.

Attendance & Participation

Please attend every class and be actively involved. As specified under the Grading Policy, attendance and participation will influence your final grade.

Electronics

While you can use computers/tablets/cell phones to calculate (and look up relevant information) during class, please do not let them distract you.

Canvas & Email

Please check your Canvas and student email regularly for announcements, class materials, etc.

Academic Honesty Policy & Disabilities Accommodations

The course follows the university's guidelines on academic honesty and accommodations for students with disabilities. For details please visit:

<https://www.unh.edu/student-life/09-academic-honesty>

<https://manchester.unh.edu/student-accessibility-services>

Class Cancellations

The course follows UNH Manchester class cancellations (holidays, weather conditions, etc.). If the instructor has to cancel a class while the school is in session, an announcement will be made on Canvas and through student email.

Changes to the Syllabus

Please treat the syllabus as a general guide. Any necessary changes or updates will be discussed in class.

Other

Please email me if you have any questions about the course structure, policies, etc. – Matt