Instructor: Haim Schweitzer
Office: ECSS 3.602
Office Hours:
• Tuesday: 7:45-8:45PM
Telephone: (972)883-2238 (for emergencies)
Email: HSchweitzer@utdallas.edu

TA: TBA
Office: ECSS 3.222
Office Hours:
• Tuesday: 3:00-4:00PM (Baukun)
• Thursday: 3:00-4:00PM (Swair)
Telephone: bxh150730@utdallas.edu, swair@utdallas.edu

Course Description

Texts

Required Text

Most of the material will be covered from class-notes with selected parts taken from sources available on
the web.
There is no required text.

Other material

  stat.stanford.edu/tibs/ElemStatLearn/
• R. O. Duda, P. E. Hart, and D. G. Stork. Pattern Classification.
• Cristianini and Taylor. An Introduction to Support Vector Machines and other kernel-based learning

Important Dates

• Test 1: Thursday, June 28, 2018.
• Test 2: Tuesday, July 31, 2018.
• Course Grades Available: August 8, 2018.

Grading Policy

• Ungraded Homework: 5%. (Assignments will not be graded.)
• Quizzes 9%. (Best 3/4 will be used to compute the grade)
• Graded Homework (projects): 10%.
• Test 1: 38%. (Open books.)
• Test 2: 38%. (Open books.)

Topics

• Decision Trees
• Neural Networks
• Linear Discriminants
• Deep Learning
• Evaluation of Learning Algorithms
• Bayesian and Naive Bayesian Learning
• Nearest Neighbor Algorithms
• Computational Learning Theory
• Adaptive Boosting.
• Support Vector Machines.
• Reinforcement Learning
• Unsupervised learning and clustering

Pre-requisites
• Pre-requisite: CS-5343

Attendance
1. Absence in three consecutive lectures will result in the course grade being lowered by one letter.
2. Absence in four consecutive lectures will automatically result in a failing grade (F) in the course.

Software
Additional Policies
• All exams are open books and notebooks.
• Computers are not allowed in exams, but pocket calculators may be needed.
• You must be present during the evaluation of your graded homework assignments.