University of Detroit Mercy
College of Engineering and Science
Department of Mathematics, Computer Science and Software Engineering

CSSE-4610 01 Introduction to Data Mining
Fall 2017

DESCRIPTION OF COURSE: Introduction to data warehousing, data preparation for data mining, classification, association, clustering, prediction, data mining applications, data mining projects.

CREDIT HOURS: 3

PREREQUISITES: CSSE 3540 - Database Systems and Programming

REQUIRED TEXT: Data Mining: Concepts and Techniques, 3rd Edition, Jiawei Han Micheline Kamber Jian Pei, ISBN: 9780123814791.

INSTRUCTOR: Dr. Shadi Banitaan, Associate Professor
(313) 993-1163, Email: banitash@udmercy.edu

OFFICE HOURS: Tuesday & Thursday 1:00PM – 2:00PM; email or call to schedule an appointment.

LECTURE: TR 6:40 pm-7:55 pm, Room E230.

COURSE OUTCOMES: Upon completion of the course, students will be able to*:

1. Process raw data to make it suitable for various data mining algorithms. (a)(b)
2. Discover and measure interesting patterns from different kinds of databases. (a)(b)
3. Apply the techniques of clustering, classification, association finding and feature selection to real world data. (a)(b)(c)(d)(i)

Letters refer to Computer Science Program Outcomes

COMPUTER USAGE: Weka will be used for this course. You can download it from http://www.cs.waikato.ac.nz/ml/weka/

GRADING:

Assignments	40%
Project	40%
Midterm Exam	20%

GRADING SCALE:

93-100% A	87-89% B+	77-79% C+	69-67% D+
90-92% A-	83-86% B	73-76% C	60-66% D
	80-82% B-	70-72% C-	0-59% F

IMPORTANT DATES:

Aug 28	Classes Begin
Sep 2-4	Labor Day Holiday
Sept 4	Last Day to Add a Class
Sept 4	Last Day to Drop a Class without a "W"
Oct 9 -10	Fall Break- University open but no classes
Oct 24	Mid-term Grades are due
Oct 30	Advising for Winter and Summer
Nov 06	Registration for Winter and Summer begins
Nov 20	Last Day to Withdraw from Class
Nov 22	Thanksgiving Break- University open but no classes
Nov 23-26	Thanksgiving Recess (UNIV CLOSED)
Dec 12-16	Final Exam Week
Dec 16	Official End of Term I/Fall
Dec 18	Grades due by Noon for Term I/Fall

LATE ASSIGNMENTS:

Due dates will be provided for each assignment when it is posted. Late assignments will be accepted with a penalty of 10% per day late. Late assignments will not be accepted more than 1 week past the due date. No extensions will be given due to illness, school activities, etc. since there is plenty of time to complete assignments before the due date. Extensions will be considered in the case of serious family emergencies, extended illness, or other lengthy absence only, and must be requested prior to the due date.

ACADEMIC INTEGRITY:

Students are expected to conform to a high standard of honesty and integrity in this course. Copying the work of someone else and other forms of cheating are strictly prohibited. Permitting or tolerating such behavior is also prohibited. The minimum penalty for any offense is a 0 on that assignment. The culprits may be subject to additional sanctions, up to and including expulsion from school for serious offenses, as prescribed by the University Catalog and the Engineering and Science Student Handbook.

Disability Support Services and Accommodations:

If you need an accommodation because of a disability, have emergency medical information to share, or if you need special arrangements in case the building must be evacuated, please contact:

Emilie Wetherington, Director
Disability Support Services.
McNichols Campus Library, Room 328
Email: gallegem@udmercy.edu
Phone: 313-993-1158

It is very important for students to be proactive with regard to requesting their disability accommodations every semester. Students are encouraged to have open communication with their professors. However, it is never a requirement for students to disclose their disabilities to anyone except the Director of Disability Support Services, and only if they wish to request accommodations. You must be registered with Disability Support Services and your faculty must receive official notification from the DSS office before they can make arrangements for your accommodations.

Please note that important messages (such as cancellation of a class session) will be communicated through Blackboard and/or UDM email addresses.