

**CS 795/895: Topics in data Mining and Security**  
**Summer 2011**  
**Course Outline**

**Instructor:** Ravi Mukkamala  
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**Lecture:** Monday, Wednesday 1230-1550 (ECSB 2120)  
**Office Hours:** Tuesday, Thursday: 4:00-5:00 PM (E&CS 3317)  
**Prerequisites:** CS 555 & CS 471  
**Textbook:** Ian H. Witten and Eibe Frank, [Data Mining: Practical Machine Learning Tools and Techniques with Java Implementations](#), Morgan Kaufmann Publishers, ISBN:0120884070  
Reference: <http://www.theartling.com/text/dmwhite/dmwhite.htm>

**Attendance:** Attendance at classes is not mandatory, but students are responsible for all material covered and announcements made in class. Consequently, if you are going to miss class, be sure to get notes, handouts, etc., from another class member. Class notes and other information will be available at the following website:  
<http://www.cs.odu.edu/~mukka>

**Cheating:** Everything turned in for grading in this course must be your own work. The instructor reserves the right to question a student orally or in writing and to use his evaluation of the student's understanding of the assignment and of the submitted solution as evidence of cheating. Violations will be reported to the Honor Council for consideration for punitive action. However, it is entirely appropriate seek and give assistance on procedural matters (such as how to send e-mail, how to run the debugger, how to send files from a home PC to a UNIX workstations). If there is any question on whether a particular behavior is appropriate, the student is encouraged to seek guidance from the instructor.

**Grading:**

Examination	100	
Course Project	100	
Homework	100	

## Tentative Schedule

Date	Topic	Assignment
May 16 (M)	Lecture 1: Introduction Ch. 1-3	HW#1
May 18 (W)	Lecture 2: Algorithms: Ch. 4	
May 23 (M)	Lecture 3: Credibility evaluation: Ch. 5	HW#2
May 25 (W)	Lecture 4: Implementations and transformations: Ch. 6-7	
May 30 (M)	Memorial Day Holiday	
June 1 (W)	Lecture 5: Extensions and applications: Ch. 8	HW #3
June 6 (M)	Lecture 6: Security applications-1	
June 8 (W)	Lecture 7: Security applications-2	HW #4
June 13 (M)	Lecture 8: Security applications-3	
June 15 (W)	Lecture 9: Security applications-4	HW #5
June 18 (SAT)	Examination	
June 20 (M)	Project1 (Discussion)	
June 22 (W)	Project 2 (Discussion)	

## Topics to cover

<b>Part 1</b>	.
<b>Part 2</b>	
<b>Part 3</b>	
<b>Part 4</b>	
<b>Part 5</b>	
<b>Part 6</b>	
<b>Part 7</b>	
<b>Part 8</b>	
<b>Part 9</b>	
<b>Part 10</b>	