

# Syllabus

## Professor

John R. Hubbard  
Office: 201 Jepson Hall.  
Hours: 2:00-3:30 on Mon, Wed, & Fri; other times by appointment.  
Email: [jhubbard@richmond.edu](mailto:jhubbard@richmond.edu)  
Phone: 289-8086 (office), 379-0510 (home). Please do not call after 9:00 p.m.

## Textbook

*Data Mining, Practical Machine Learning Tools and Techniques*, by Ian H. Witten & Eibe Frank, Morgan Kaufmann, 2005, 978-0-12-088407-0.

## Bibliography

1. Hand, David, Heilli Manila, & Padhraic Smyth, *Principles of Data Mining*, MIT Press, 2001, 0-262-08290-X, <http://mitpress.mit.edu>
2. Hornick, Mark F., Erik Marcade, & Sunil Venkayala, *Java Data Mining, Strategy, Standard, and Practice*, Morgan Kaufmann, 2007, 978-0-12-370452-9, <http://www.mkp.com>
3. Jones, Neil C. & Pavel A. Pevzner, *An Introduction to Bioinformatics Algorithms*, MIT Press, 2001, 0-262-10106-8, <http://mitpress.mit.edu>
4. Larose, Daniel T., *Data Mining Methods and Models*, John Wiley & Sons, 2006, 978-0-471-66656-1, <http://www.wiley.com>
5. Tan, Pang-Ning, Michael Steinbach, & Vipin Kumar, *Introduction to Data Mining*, Addison-Wesley, 2006, 0-321-32136-7, <http://www.aw-bc.com>
6. Witten, Ian H. & Eibe Frank, *Data Mining, Practical Machine Learning Tools and Techniques*, Morgan Kaufmann, 2005, 978-0-12-088407-0, <http://www.mkp.com>

## Term Project

Each student will complete a data mining project. This includes:

- Specification of the project objective.
- Obtaining the necessary data sources.
- Surveying work by others on similar projects.
- Software implementation of necessary algorithms.
- Final written report of results by March 30.
- Presentation of project to the class in April.

## Grades

Final grades will be based on the term project. Students who present their completed project at the UR Student Research Symposium will earn an A. Other students who complete their project will earn a B.

## Academic Integrity

The Richmond Honor Council has the following written policy:

*All academic work, written or otherwise, submitted by a student to fulfill a course requirement is expected to be the result of the student's own thought, research, or self-expression. A student will have committed plagiarism if the student has reproduced someone else's work without acknowledging its source. Plagiarism is no more and no less a violation of the Honor Code than lying, cheating, or academic theft.*

This professor regards this Honor Code as essential to the academic integrity of the university.