

# TEACHING EXPERIENCE

Michael A. Jones

## COURSES TAUGHT

**Montclair State University.** Department of Mathematical Sciences. Upper Montclair, NJ.

### **Graduate Courses including Independent Studies**

- MATH 580 Combinatorial Mathematics
  - 1 section, Spring 1999; 1 section, Spring 2002.
- MATH 581 Graph Theory and Its Applications
  - 1 section, Fall 1998.
- MATH 690 Evolutionary Game Theory
  - Independent Study for 1 student, Spring 2000.

### **Undergraduate Upper Level Courses including Independent Studies**

- MATH 335 Linear Algebra
  - 1 section, Fall 2000.
- MATH 410 Applied Combinatorics and Graph Theory
  - 1 section, Spring 2000.
- MATH 464 Operations Research I
  - 1 section, Fall 2002.
- MATH 495 Game Theory and Its Applications
  - 1 section, Fall 2001.
- MATH 495 Combinatorial Game Theory
  - Independent Study for 1 student, Fall 1999.
- MATH 495 Applications of Cryptography
  - Independent Study for 1 student, Spring 2000.
- MATH 497 Undergraduate Research on Permutation Groups and Puzzles
  - Independent Study for 2 students, Spring 2001.

### **Undergraduate Lower Level Courses**

- MATH 221 Calculus II
  - 1 section, Fall 1998; 2 sections, Spring 1999; 2 sections, Spring 2001; 1 section, Fall 2002.
- MATH 222 Calculus III
  - 1 section, Spring 2000; 2 sections, Fall 1999.

### **Undergraduate General Education Requirement Courses**

- MATH 103 Development of Mathematics
  - 2 sections Fall 2001; 1 section Spring 2002
- MATH 106 Contemporary Mathematics for Everyone
  - 1 section, Spring 2000; 2 sections, Fall 2000

**Center for Talented Youth**, through Johns Hopkins University, at Dickinson University, Carlisle, PA.

- 99S.GAME.CAR.1 Probability and Game Theory
  - 3-week, intensive program, focusing on experiential learning, Summer 1999.

**Loyola University.** Department of Mathematical and Computer Sciences. Chicago, IL.

- MATH 118 PreCalculus
  - Large lecture section with ~100 students, used TI-83, Fall 1997.
- MATH 262 Differential Equations
  - 1 section, used TI-83 and Maple worksheets, Spring 1998.
- MATH 161 Calculus I
  - 1 section, meetings consisted of a one hour lecture and another one hour lab focusing on small group work, Fall 1997.
- MATH 108 Finite Math
  - 1 section, Fall 1997; 2 sections, Spring 1998; 1 section, Summer 1998.

**US Military Academy.** Department of Mathematical Sciences. West Point, NY.

- MA489F Fair Division: Theory and Applications
  - Developed new course, 1 section, Spring 1997.
- MA489 Game Theory and Its Applications
  - Developed new course, 1 section, Fall 1996.
- MA206 Probability and Statistics
  - 2 sections, used HP 48G and Minitab statistical software, Fall 1996.
- MA371 Linear Algebra with Applications
  - Course director overseeing all Linear Algebra courses; Taught 3 sections, Fall 1995; 3 sections, Spring 1996.
- MA104 Integral Calculus/Differential Equations
  - 3 sections, used HP 48G and Derive software, Spring 1995.
- MA103 Discrete Dynamical Systems/Differential Calculus
  - 3 sections, used HP 48G and Derive software, Fall 1994.

**Mount Saint Mary College.** Division of Business, MBA Program. Newburgh, NY.

- Managerial Economics in Accelerated MBA program
  - 1 section, Summer 1996.

**Northwestern University.** Department of Mathematics. Evanston, IL.

- C04 Game Theory
  - 1 section, Upper division undergraduate class, Summer 1998.
- B16 Calculus of Several Variables
  - 1 section, continuing education students, Fall 1993.
- B14-2 Integral Calculus Experimental Section
  - 1 section, used TI-81 and small group work, Spring 1993.
- A10 Introduction to Probability and Statistics
  - 1 section, Summer 1992.

**Oakton Community College.** Department of Mathematics. Oakton, IL.

- MAT 121 College Algebra
  - 2 sections, mix of traditional and returning students, Summer 1992.

## **COURSES ASSISTED**

**Northwestern University.** Department of Mathematics. Evanston, IL.

- Game Theory, Linear Algebra, Differential Equations, and Differential, Integral, and Multivariable Calculus Mathematical Methods in the Social Sciences Program: Honors Mathematics for Social Scientists (sophomore and junior levels)

**Northwestern University.** Kellogg Graduate School of Management, Evanston, IL.

- Managerial Economics and Decision Sciences: Decision Sciences (MBAs)