

# Curriculum Vitæ

Daniel J. Kaiser

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## EDUCATION

**Ph.D.** Computer Science, University of Nebraska, August 1995.

**M.S.** Computer Science, University of Nebraska, December 1988.

**M.S.** Mathematics, University of Nebraska, July 1982.

**B.A.** Mathematics, Benedictine College, Atchison, KS, May 1979.

## PROFESSIONAL EXPERIENCE

**September 1998 to Present:** Professor of Computer Science, Southwest Minnesota State University, Marshall, Minnesota.

### Courses Taught

Introduction to Computers, Essentials of Computing, Preview of Computer Science, Computer Science I, Computer Science II, Computer Organization, Data Structures, Operating Systems, Programming Languages, Design and Analysis of Algorithms, Advanced Programming in UNIX, Information and Knowledge Management, Theory of Computation, Software Engineering, Artificial Intelligence, Games Programming, Finite Mathematics, Discrete Mathematics, Numerical Analysis, Combinatorics

### Committee Responsibilities

Chair, Curriculum Committee, fall 1999 – spring 2002, fall 2011 – present.  
Technology Fee Committee, 2010 – 2011.  
Academic Technology Committee, 2010 – 2011.  
Chair, Liberal Arts Core Task Force, fall 2004 – fall 2009.  
Project Kaleidoscope Leadership Team, 2004 – 2008.  
Chair, Academic Affairs Committee, fall 2002 – spring 2004.  
University Strategic Planning Committee, fall 2001 – 2004.

NCA “Future Effectiveness” Committee, spring 2001 – 2004.  
Library Allocation Ad Hoc Committee, 1999.  
Telephone and Web Registration Ad Hoc Committee, 1998 - 99.  
Search Committee for Mathematics, spring 2011.  
Chair, Search Committee for Computer Science, spring 2005.  
Chair, Search Committee for Computer Science, spring 2002.  
Chair, Search Committee for Computer Science, summer 2001.  
Chair, Search Committee for Computer Science, spring 1999.

### **Other Responsibilities**

Chair, Department of Mathematics and Computer Science, 2002 – 2004, 2011 – present

### **Awards**

Cathy Cowan for service to SMSU, 2011

**September 1992 to 1998:** Assistant Professor in the Department of Computer Science and Mathematics, Doane College, Crete, Nebraska.

### **Courses Taught**

Algorithm Analysis and Design, Calculus, College Algebra, Combinatorics, Discrete Mathematical Structures, Finite Mathematics, Introduction to Computer Science, Introduction to Programming and Problem Solving, Numerical Analysis, Object-Oriented Programming and Design (in C++ and Java), Principles of Programming Languages, Theory of Computation.

Also, College Algebra and Finite Mathematics in an evening setting for non-traditional students at Doane’s Lincoln campus.

### **Committee Responsibilities**

Chair, Academic Affairs Standing Committee, 1996 to 1998.  
Teacher Education Standing Committee, 1996 to 1998.  
Library Standing Committee, 1994 - 1995.  
Science Building Design Ad Hoc Committee, 1995 - 1996.  
Technology Mentor Fellowship (funded by the Teagle Foundation), 1995 - 1997.

**January 1992 to July 1992:** Research Assistant, Technische Universiteit Eindhoven, The Netherlands.

Assisted my advisor, Dr. David Klarner, and conducted research leading to my dissertation.

**September 1989 to August 1992 and September 1993 to August 1994:** Teaching Assistant in the Department of Computer Science, University of Nebraska.

**Courses Taught**

Computer Applications in Business, Data Structures and Object-Oriented Programming, Discrete Structures, Introduction to Computer Science I (in Pascal and C++), UNIX & C Programming.

Each semester, for the Computer Applications in Business Course, I was responsible for the lectures and presentations for two sections of 225 students in the Business College. I was also responsible for preparing the syllabus, the laboratory activities, examinations and the creation of a computer based grading system. My duties included the hiring and scheduling of the student lab-aides and teaching assistants.

**Committee Responsibilities**

Graduate Student Representative at Faculty Meetings, 1990 - 1991.

**September 1984 to August 1989:** Instructor in the Department of Mathematics and Computer Science, Nebraska Wesleyan University.

**Courses Taught**

Abstract Algebra, Calculus I, II and III, Computer Applications, Discrete Mathematics I and II, Fourier Series and Partial Differential Equations, Geometry, Introduction to Computer Programming (BASIC), Introduction to Higher Mathematics, Mathematical Analysis of the Real Numbers, Pascal Programming, Pre-Calculus.

Also, Pre-Calculus, BASIC Programming and Computer Applications in Nursing for Nebraska Wesleyan's continuing education department.

**Committee Responsibilities**

Faculty Affairs Standing Committee, 1986 - 1988.

Science Division Secretary, 1985 - 1987.

**September 1979 to August 1984:** Teaching Assistant in the Department of Mathematics, University of Nebraska.

**Courses Taught**

Business Calculus, Calculus I, II and III, College Algebra.

**Other Teaching Experiences:**

Introduction to Computers, BASIC Programming, Pascal Programming — College of Saint Mary, Lincoln Campus, 1989 - 1991.

Advanced Calculus, Complex Variables — University of Nebraska, Summer 1985.

## **RESEARCH INTERESTS**

My dissertation concerned algorithms and heuristics for  $k$ -dimensional bin packing.

My other interests include game design and simulation, graph theory and its applications to network design, scheduling theory, other aspects of combinatorial optimization, coding theory, cryptology and design theory.

## **PAPERS**

Kaiser, D. J. “A Gentler Approach to Order Notation.” Midwest Instruction and Computing Symposium, 2001

S. Reichenbach, D. Kaiser, A. Hanson, and J. Li. “Restoration and Reconstruction from Overlapping Images.” Image Registration Workshop, NASA, 49-55, 1997.

Kaiser, D. J. “Power Over the Pyramid.” Nebraska Sectional Meeting of the Mathematical Association of America, 1987.

## **PROFESSIONAL SOCIETIES**

IEEE Computer Society, since 1998.

Association for Computing Machinery, since 1990.

Mathematical Association of America, since 1980.