Thomas W. Doeppner Jr.

Curriculum Vitae January 2006

1. Personal

Associate Professor (Research)
Department of Computer Science
Brown University
Providence, RI 02912
twd@cs.brown.edu

2. Education

B.S. in Computer Science (with distinction), Cornell University, May 1973

M.S.E. in Electrical Engineering, Princeton University, October 1974

M.A. in Electrical Engineering, Princeton University, June 1975

Ph.D. in Electrical Engineering and Computer Science, Princeton University, June 1977

Dissertation topic: Parallel Program Correctness Through Refinement (supervised by R. Keller)

3. Professional Appointments

1969–1976	Programmer, Atlantic Research Corporation, Alexandria, VA (summers and vacations)
1973–1976	Research and Teaching Assistantships, Princeton University
1976–1979	Assistant Professor of Computer Science and Applied Mathematics, Brown University
1977–1979	Principal Software Engineer, Text Systems, Inc., Barrington, RI
1979–1981	Assistant Professor of Computer Science, Brown University
1980	Visiting Scientist, George Washington University, Washington, D.C.
1981–	Associate Professor (Research), Computer Science, Brown University
Consultancies	
1977-1978	Atlantic Research Corporation, Alexandria, VA
1978–1979	ONR Contract N000l4-78-C-0656, "Language Design and Evaluation Studies"
1980-1984	Raytheon Corporation, Missile Systems Division, Bedford, MA
1980–1982	Raytheon Corporation, Submarine Signal Division, Portsmouth, RI

1980-1981	Summagraphics Corporation, Bridgeport, CT
1981-1982	Exxon Research and Engineering Co., Florham Park, NJ
1982-1983	Brandeis University, Waltham, MA
1982-1984	Foxboro Company, Foxboro, MA
1982	Exxon Office Systems, Princeton, NJ
1983	Compugraphics Company, Reading, MA
1983	Gould-Modicon Division, Andover, MA
1984–	Institute for Advanced Professional Study, Cambridge, MA (UNIX internals and networking courses for a number of industrial clients)
1991–1993	Open Software Foundation, Cambridge, MA
Industrial Teaching	
1980	Raytheon Corporation, 3BSD UNIX Internals
1983	Compugraphics Corporation, 4BSD UNIX Internals
1983	Gould Corporation, Introduction to UNIX
1983	Foxboro Company, 4BSD UNIX Internals
1984	Cray Research, UNIX System V Internals
1984	Foxboro Company, UNIX System V Internals
1984	Tektronix Corporation, 4.2BSD UNIX Internals
1984	Digital Equipment Corporation, 4.2BSD Internals
1985	Digital Equipment Corporation, 4.2BSD Internals
1985	Digital Equipment Corporation, UNIX Neworking
1985	Digital Equipment Corporation, UNIX Device Drivers
1985	IBM, UNIX Networking
1985	Purdue University, 4.2BSD UNIX Internals
1986	Prime Computer Corporation, UNIX System V Internals
1986	Prime Computer Corporation, UNIX Networking
1986	Mitre Corporation, 4.2BSD UNIX Internals
1986	Los Alamos National Laboratories, UNIX Networking
1986	Tektronix Corporation, 4.3BSD UNIX Internals
1987	CLSI, Inc., Intro to UNIX
1987	National Center for Atmospheric Research, 4.3BSD UNIX Internals
1987	Institute for Advanced Professional Studies, 4.3BSD UNIX Internals
1987	Purdue University, 4.3BSD UNIX Internals
1987	Gould Corporation, 4.3BSD UNIX Internals
1987	Mitre Corporation, UNIX Networking

1987	Los Alamos National Laboratories, UNIX Networking
1987	Digital Equipment Corporation, Ultrix Internals
1988	BBN Advanced Computers, Inc., 4.3BSD UNIX Internals
1988	Prime Computer Corporation, UNIX System V Internals
1988	Prime Computer Corporation, UNIX Networking
1988	Texas Instruments, Inc., UNIX System V Internals
1988	Gould Corporation, 4.3BSD UNIX Internals
1988	Cornell University, UNIX System V Internals
1988	Addamax Corporation, UNIX Internals
1988	Institute for Advanced Professional Studies, UNIX Networking
1988	Digital Equipment Corporation, Ultrix Internals
1989	Mitre Corporation, 4.3BSD UNIX Internals
1989	Digital Equipment Corporation, UNIX Networking
1989	Digital Equipment Corporation, Ultrix Internals
1989	Digital Equipment Corporation, Ultrix Internals and Networking
1989	AT&T Bell Laboratories, UNIX Networking
1989	Unisys Corporation, UNIX System V Internals
1989	Intel Corporation, UNIX System V Internals
1989	Datapoint Corporation, UNIX System V Internals
1990	Intel Corporation, UNIX System V Internals
1990	Mitre Corporation, 4.3BSD UNIX Internals
1990	Intel Corporation, UNIX Networking
1990	Intel Scientific Computers, NFS Internals
1990	Digital Equipment Corporation, various courses
1990	Open Software Foundation, OSF/1 Internals
1990	IBM, OSF/1 Internals
1991	IBM, OSF/1 Internals
1991	Digital Equipment Corporation OSF/1 Internals
1991	Bull, OSF/1 Internals
1992	Bull, DCE Internals
1992	IBM, DCE Internals
1992	Open Software Foundation, DCE Internals
1992	Stratus Computer Corporation, DCE Internals
1993	Hitachi Computer Corporation, OSF/1 Internals
1993	Tandem Computer Corporation, DCE Internals
1993	Digital Equipment Corporation, DCE Internals
1993	Digital Equipment Corporation, Mach

1993	Digital Equipment Corporation, DFS
1994	Digital Equipment Corporation, DCE Internals
1994	Digital Equipment Corporation, Multithreaded Programming
1994	Sun Microsystems, Multithreaded Programming
1994	IBM Corporation, DCE Internals
1995	IBM Corporation, DCE Internals
1995	Digital Equipment Corporation, Multithreaded Programming
1995	Sun Microsystems, Introduction to the Spring Operating System
1995	Northern Telecom, Multithreaded Programming
1995	Tandem Computers, UNIX Internals
1996	Digital Equipment Corporation, DCE Internals
1996	Oak Ridge National Laboratories, DCE Application Programming
1996	Sybase Corporation, Introduction to Distributed Computing
1997	MITRE Corporation, Object-Oriented Programming
1997	Swiss National Bank, Distributed Computing
1997	Digital Equipment Corporation, Digital UNIX Internals
1997	Digital Equipment Corporation, Digital UNIX Networking Internals
1998	Tandem Computers, UNIX Internals
1998	Qualcomm Corporation, Multithreaded Programming
1999	Compaq Computer Corporation, Distributed Computing
2002	Avaya, Linux Internals
2002	IBM, NFS version 4
2005	Avaya, Multithreaded Programming

4. Publications

Books

OSF/1 Internals, Course Notes, Open Software Foundation, Cambridge, MA, 1991

DCE Internals, Course Notes, Open Software Foundation, Cambridge, MA, 1992

OSF/1 Microkernel, Course Notes, Open Software Foundation, Cambridge, MA, 1992 Design of the OSF/1 Operating System (Technical Editor), Prentice Hall, 1993

Programming with Threads, Course Notes, SunSoft, 1994

An Introduction to the Spring Operating System, Course Notes, SunSoft, 1994

Distributed File Systems and Distributed Memory, chapter in Handbook for Computer Science, CRC Press, 1996, also appearing the second edition of the same book, 2005.

Articles

- "On Abstractions of Parallel Programs," in *Proceedings of Eighth Annual ACM Symposium on Theory of Computing* (May 1976).
- "Parallel Program Correctness through Refinement," in *Proceedings of Fourth Annual ACM Symposium on Principles of Programming Languages* (January 1977).
- "A Formal Description of the UNIX Operating System" (with A. Giacalone), in 2nd ACM Symposium on Principles of Distributed Computing (August 1983).
- "Toward a Formally-Based Programming Environment" (with A. Giacalone and M.J. Braca), in *European Conference on Integrated Interactive Systems*, North Holland Publishing Company (1983).
- "Ideosy An Ideographic and Interactive Program Description System" (with A. Giacalone and M. Rinard), in *Proceedings of ACM Symposium on Practical Software Development Environments* (May 1984).
- "Towards a Workstation Operating System," in *Proceedings of 19th Hawaii International Conference on System Sciences* (January 1986).
- "C++ on a Parallel Machine" (with A. Gebele), *Proceedings of First Usenix Association Workshop on C*++ (November 1987).
- "Variable Weight Processes with Flexible Shared Resources" (with Z. Aral, J. Bloom, I. Gertner, A. Langerman, G. Schaffer), *Proceedings of Winter 1989 USENIX Association Meeting*.
- "Open Software UNIX/OSF/DCE, Etc.," in *Proceedings of the International Conference on Computing in High Energy Physics* '92
- "Open Software: UNIX, DCE, and Competitors," in *Course Notes for the 1993 CERN School of Computing*.
- "Distributed File Systems and Distributed Memory," *Computing Surveys*, Vol. 28, No. 1, March 1996.
- "ThreadMon: A Tool for Monitoring Multithreaded Program Performance" (with B. Cantrill), *Proceedings of 30th Hawaii International Conference on System Sciences* (January 1997).
- "Using Router Stamping to Identify the Source of IP Packets," (with A. Koyfman and P. Klein), *Proceedings of the ACM Conference on Computer and Communication Security* (November 2000).

Technical Reports

- "On the Relevance of Abstract Models in Modelling Semaphore Implementations" (with R. M. Keller), TR-193, Computer Sciences Laboratory, Department of Electrical Engineering, Princeton University (October 1975).
- "Parallel Program Correctness through Refinement," Ph.D. Thesis, Department of Electrical Engineering and Computer Science, Princeton University (May 1977).
- "Towards a Semantics of Nonterminating Parallel Programs," Computer Science Technical Report CS-43, Brown University (January 1979).
- "Comparison of Red and Green Languages" (with S. Reiss and P. Wegner), Computer Science Technical Report CS-49, Brown University (April 1979).
- "Thoughts on the Implementation of ADA Multi-Tasking," Computer Science Technical Report CS-51, Brown University (November 1979).

- "A Computing Environment for Experimental Research in Computer Science" (with R. Sedgewick and A. van Dam), Computer Science Technical Report CS-67, Brown University (December 1980).
- "A Procedure for the Static Detection of Deadlock in CSP Programs" (with S. A. Smolka), Computer Science Technical Report No. CS-76, Brown University (June 1981).
- "Toward a Formally-Based Software Development Environment" (with M. J. Braca and A. Giacalone), Computer Science Technical Report CS-82-11, Brown University (January 1982).
- "A Formally-Based Programming Environment" (with M. Braca and A. Giacalone), Computer Science Technical Report CS-82-15, Brown University (May 1982).
- "A Minimal Operating System for Nil-like Environments," Brown University (January 1985).
- "System Manual for Threads," Brown University (December 1986).
- "A Threads Tutorial," Computer Science Technical Report CS-87-06, Brown University (March 1987).
- "A White Paper on Concurrent Programming" (with James M. Bloom and David C. Johnson), Computer Science Technical Report CS-87-07, Brown University (April 1987).
- "Threads: A System for the Support of Concurrent Programming," Computer Science Technical Report CS-87-11, Brown University (June 1987).
- "A Threads Tutorial (Fortran Version)," Computer Science Technical Report CS-88-19, Brown University (June 1988).
- "Open Software: UNIX/OSF/UI, Etc.," Computer Science Technical Report CS-92-60, Brown University (November 1992)
- "The Thread-Monitor Library: A System for Monitoring Solaris-Threads Programs," Computer Science Technical Report CS-93-53, Brown University (September 1993)
- "The Brown C++ Threads Library," Brown University (January 1995)
- "VTRACE Methodology and Communication Performance Analysis," (with P. Dai), Computer Science Technical Report CS-95-36, Brown University (November 1995)

Invited Lectures

1978	"Garbage Collection and the Meaning of Parallel Programs", University of Guelph, Ontario, Canada.
1980	"An Interactive Computing Environment", University of Guelph, Ontario, Canada.
1981	"Computer Graphics", National Science Foundation, Washington, D.C.
1982	"An Integrated Interactive Computing Environment", General Electric Research Laboratories, Schenectady, NY.
1983	"Networking at Brown", New England Regional Computing Program, Worcester, MA.
1984	"Ideosy - An Ideographic and Interactive Program Description System", University of Rhode Island, Kingston, RI.
1985	"A Comparison of UNIX Kernels", Uniforum Conference, Dallas, TX.
1986	"Introduction to the 4.2BSD Kernel," full-day tutorial at Winter Usenix Conference, Denver, CO.

1986	"Introduction to the 4.2/4.3BSD Kernel," full-day tutorial at Summer Usenix Conference, Atlanta, GA.
1986	"The Project Quattro Mail Server," talk given at the following places: Digital Equipment Corporation, Spitbrook, NH; Berkeley Unix Workshop, Berkeley, CA; SUNY, Stony Brook, NY.
1987-1991	"Introduction to the 4.3BSD Kernel," full-day tutorial at Winter 1987 Usenix Conference, Washington, DC, at Summer 1987 Usenix Conference, Phoenix, AZ, at Winter 1988 Usenix Conference, Dallas, TX, at Summer 1988 Usenix Conference in San Francisco, CA, at Winter 1989 Usenix Conference in San Diego, CA, at Summer 1989 Usenix Conference in Baltimore, MD., at Winter 1990 Usenix Conference in Washington, D.C., at Summer 1990 Usenix Conference in Los Angeles, at Spring 1990 EUUG Conference in Munich, and at Winter 1991 Usenix Conference in Dallas, TX.
1987	"Computer Networks," XII International Symposium on Computer Systems, Monterrey, Mexico.
1988	"Parallel Programming," Encore Computer Corporation, Marlboro, MA.
1988	"UNIX, Multiprocessors and I/O," Centrum voor Wiskunde en Informatica, Amsterdam.
1989	"Is There a Future for UNIX?" Centrum voor Wiskunde en Informatica, Amsterdam.
1989	"The Design of a Threads Package," Centrum voor Wiskunde en Informatica, Amsterdam.
1989	"UNIX, Multiprocessors and I/O," Helsinki University of Technology.
1989	"UNIX Networking," half-day tutorial given at Uniforum/Boston
1989	"The Brown Threads Package," Digital Equipment Corporation, Nashua, NH.
1989–1990	"UNIX System Internals," full-day tutorial given as part of the "Distinguished UNIX Seminar Series" at the Federal Open Systems Conference, Washington, D.C. in December 1989, April 1990, December 1990, May 1991 and December 1991 (selected "best tutorial" in April 90)
1991	"Introduction to OSF/1 Internals," full-day tutorial given at Usenix Conferences in June 1991, January 1992, June 1992 and January 1993
1992	"Open Software: UNIX/OSF/UI, Etc." Invited talk at the conference on Computers in High Energy Physics, Annecy, France, September 1992
1993	"Microkernels," Invited presentation at a joint meeting of the Phoenix chapters of IEEE and ACM (March 1993)
1993	"Introduction to Mach 3.0," half-day tutorial given at the Usenix Mach Symposium (April 1993)

1993	"A Technical Introduction to DCE," full-day tutorial presented at the X/Open Conference in San Jose, California (June 1993)
1993	"Open Software: UNIX, DCE, and Competitors," a series of five lectures presented at the 1993 CERN School of Computing (September 1993)
1994	"DCE Directory and Naming Services: A Critical Examination," invited talk at the DCE Developers Conference (August 1994)
1994	"The Spring Operating System: Internals Overview," half-day tutorial at the Usenix Conference on Operating System Design and Implementation (November 1994)
1995	"A Technical Introduction to DCE for Managers," full-day tutorial presented at the DCE Developers Conferences in San Jose (April 1995), London (April 1995), and Boston (August 1995)
1995	"DCE Directory and Naming Services: A Critical Examination," invited talk presented at the DCE Developers Conferences in San Jose (April 1995) and London (April 1995). Also presented to the NY DCE Users Group (June 1995)
1995	"Threads and DCE," invited talk presented at the DCE Developers Conferences in London (April 1995) and Boston (August 1995). Also presented to the Massachusetts DCE Users Group (March 1995)
1995	"TCP/IP and the Internet," full-day tutorial presented at the FedUNIX Conference in Washington, D.C. (November 1995)
1995	"DCE Applications Programming," full-day tutorial presented at the FedUNIX Conference in Washington, D.C. (November 1995)
1995	"A Technical Introduction to DCE for Managers," full-day tutorial presented at the FedUNIX Conference in Washington, D.C. (November 1995)
1996	"Understanding CDS," invited talk presented at DCE Developers Conferences in San Jose (April 1996), Brussels (June 1996), and Boston (August 1996)
1996	"Threads and DCE," invited talk presented at DCE Developers Conference in Brussels (June 1996)
2004	"Teaching Operating Systems," invited talk at Microsoft Research Curriculum Workshop in San Diego (May 2004)
e	

5. Service

To the University	
1976–1979	Computer Science Library Representative
1976–1978	Seminar Chairman, Computer Science
1976–1978	Faculty Advisor for ACM and IEEE student chapters
1977	Computer Advisory Committee, Subcommittee on Planning
1978-89	Freshman Advisor

1978–1979	Member, Task Force on Computing
1978–1979	Member, Computer Advisory Committee
1978–1979	Responsible for "procurement, maintenance and operation" of departmental DEC VAX-11/780 computer system
1979–1984	Responsible for maintenance and operation of UNIX on departmental VAX computer
1981–1983	Member of the University's Computer Advisory Committee
1981-1982	Responsible for CAUSE project
1982–1983	Chairman of House Committee, Dept. of Computer Science
1983–1984	Acting General Facilities Manager, Dept. of Computer Science
1983–2005	Member of Facilities Committee, Dept. of Computer Science
1984	Gave a course on UNIX internals to IRIS
1984–1985	Faculty Advisor for Computing Facilities, Dept. of Computer Science
1985	Taught UNIX internals course to Brown Programmers
1986–1987	Member of Local Area Networking Task Force
1990–1991	Sophomore advisor
1992–1994	Freshman advisor
1992–1995	Comprehensive-examination coordinator
1994–1995	Member of Department's Computer Security Committee
1996–1997	Comprehensive-examination coordinator
1997–	Chairman of Department's Space Committee
1997–2001	Co-Chairman of Department's Colloquium Committee
2001-	Chairman of the Department's Colloquium Committee
1997	Presented three all-day lectures on distributed computing to CIS
1999–2001	Member of University's Computer-Security Task Force
1999–	Vice Chairman of the CS Department
2000-	CS Concentration Advisor
2001-	Freshman Advisor
2002-2005	Sophomore Advisor
2002-	Director of Undergraduate Studies for CS Department
2002-2003	Member of Department's Faculty Search Committee
2002–2005	Member of University's College Curriculum Council; Vice Chair, 2003–2005
2003-2005	Chair of the University's University Curriculum Council
2004-2005	Served on university's review panel for MRI grant (OVPR)

To the profession	
1978–1980	Member of IEEE and IEEE Computer Society; member of Executive Committee of IEEE Providence section
1972–	Member of Association for Computing Machinery and its special-interest groups SIGACT, SIGOPS, SIGPLAN
1977–	Referee for IEEE <i>Transactions on Computers</i> , ACM <i>Computing Surveys</i> , IBM Journal of Research and Development
1977–	Reviewer of NSF proposals
1977-1980	Referee for DOD Language proposals
1997–1999	Associate Editor of the IEEE Computer Society's TCOS (Technical Committee on Operating Systems) electronic newsletter
2002–2003	Local arrangements chair, International Conference on Distributed Computing Systems 2003

6. Academic Honors, Research Grants, Fellowships and Honorary Societies

Honors

B.S. with distinction, Cornell University

Member of Sigma Xi

Included in "American Men and Women of Science"

Research Grants	
1978–1980	National Science Foundation, "A Study of Parallel Programs," \$38,635.
1978–1979	National Science Foundation, "Computer Science and Computer Engineering Research Equipment" (with R. Sedgewick), \$120,000.
1980–1983	National Science Foundation, "Integrated Personalized Computers Environment" (with R. Sedgewick and A. van Dam), \$250,000.
1981–1983	IBM Research Agreement, "Document Production Systems" (with R. Sedgewick and A. van Dam), \$295,000.
1982–1983	Atari Computer Division, "Research in Interactive Computer Graphics" (with A. van Dam), \$150,000.
1982–1987	National Science Foundation, "An Integrated Experimental Environment for Research in Computer Science" (Co-principal investigator with A. van Dam, J.E. Savage, P. Wegner, R. Sedgewick, E. Charniak, S.P. Reiss, J.S. Vitter and P.C. Kanellakis), \$2,711,311.
1983–1986	Exxon Education Foundation, "An Instructional Computing Environment" (with A. van Dam and R. Sedgewick), \$299,143.
1983–1990	DARPA/ONR, "Multiparadigm Design Environments" (Coprincipal investigator) \$3,426,120.

1985–1986	Digital Equipment Corporation, "Project Quattro" (with A. van Dam, S.P. Reiss, and D. Bulterman), \$250,000 plus \$750,000 equipment credit.
1986–1987	Digital Equipment Corporation, "Project Quattro" (with A. van Dam, S.P. Reiss, and D. Bulterman), \$140,000.
1987–1988	Encore Computer Corporation, "Support for Concurrent Programming," \$76,000.
1988–1993	National Science Foundation, "Multiparadigm Design Environments," \$3,451,000.
1990–1991	Open Software Foundation, "OSF/1 Internals Course Development," \$37,000.
1991–1992	Open Software Foundation, "DCE Internals Course Development," \$80,000.
1992–1993	Institute for Advanced Professional Studies, "OSF Course Development," \$50,000.
1993–1994	Institute for Advanced Professional Studies, "Course Development," \$50,000.
1994–1995	Institute for Advanced Professional Studies, "Course Development," \$50,000.
1994–1996	Sun Microsystems, "Exploiting Multiprocessors for Time-Critical 3D Graphics," (with A. van Dam), \$180,000
1996–1997	Institute for Advanced Professional Studies, "Course Development," \$50,000.
1997–1998	Institute for Advanced Professional Studies, "Course Development," \$15,000.
1997–1998	Sun Microsystems, "Multithreaded Programming and Widespread Dissemination of Information on the Web," \$120,000
1998–1999	Institute for Advanced Professional Studies, "Course Development," \$10,000.
1998–2000	Sun Microsystems, "Multithreaded Programming and Widespread Dissemination of Information on the Web," \$120,000
2000	Microsoft, Support for Mobile/Wireless-Computing Project, \$50,000 plus \$40,000 for hardware
2001	Microsoft, Support for Mobile/Wireless-Computing Project, \$50,000 plus hardware upgrades
2003	Microsoft, Gift of Tablet PCs for Electronic Student Notebook project (shared with A. van Dam), \$25,000
2003	Microsoft, Support for Operating Systems book and course development, \$30,000

7. Research in Progress

Efficient system support for parallel and distributed computing; mobile/wireless computing in the classroom; Internet security.

8. Teaching

1976–1977	Programming Languages (CS273) Operating Systems Principles (CS104)
1977–1978	Operating Systems Principles (CS104) Introduction to Theory of Computation (CS152) Programming Language Theory (CS274, jointly with P. Wegner)
1978–1979	Operating Systems Principles (CS104) Introduction to Theory of Computation (CS152) Programming Language Theory (CS274, jointly with P. Wegner)
1979–1980	Operating Systems Principles (CS104) Introduction to Theory of Computation (CS152) Programming Language Theory (CS274, jointly with P. Wegner)
1980–1981	Systems Architecture (CS169) Parallel Computation (CS272)
1981–1982	Systems Architecture (CS169) Operating Systems Principles (CS222)
1982–1983	Systems Architecture (CS169) Parallel Computation (CS272)
1983–1984	Systems Architecture (CS169) Operating Systems Principles (CS222)
1984–1985	Systems Architecture (CS169) Introduction to Theory of Computation (CS152)
1985–1986	Systems Architecture (169) Topics in Operating Systems (222)
1986–1987	Systems Architecture (169) Topics in Operating Systems (222)
1987–1988	Systems Architecture (169) Topics in Operating Systems (222)
1988–1989	Systems Architecture (169) 2-week Introduction to C Course
1989–1990	Systems Architecture (169) 2-week Introduction to C Course Topics in Operating Systems (222)
1990–1991	Systems Architecture (169) 2-week Introduction to C Course Topics in Operating Systems (222)
1991–1992	Systems Architecture (169) 2-week Introduction to C Course Topics in Operating Systems (222)

1992–1993	Operating Systems (169) 1-week Introduction to C Course Topics in Operating Systems (222)
1993–1994	Operating Systems (169) 1-week Introduction to C Course Topics in Operating Systems (222)
1994–1995	1-week Multithreaded Programming Course Systems Architecture (169) Topics in Operating Systems (222)
1995–1996	Operating Systems (169)
1996–1997	Operating Systems (167) Operating Systems Laboratory (169) Topics in Operating Systems (222) Supervised Independent Study course on Computer Networking
1997–1998	Operating Systems (167) Operating Systems Laboratory (169-1) Windows NT Operating System (169-2) Computer Networks (196-5) Supervised a GISP (both semesters)
1998–1999	Operating Systems (167) Operating Systems Laboratory (169) Computer Networks (196-5)
1999–2000	Operating Systems (167) Operating Systems Laboratory (169) Computer Networks (196-5)
2000–2001	Operating Systems (167) Operating Systems Laboratory (169) Computer Networks (196-5)
2001–2002	Operating Systems (167) Operating Systems Laboratory (169) Computer Networks (196-5)
2002–2003	Operating Systems (167) Operating Systems Laboratory (169) Computer Networks (168) Supervised an Indpendent Study course on Security for Mobile Computers
2003-2004	
	Operating Systems (167) Operating Systems Laboratory (169) Computer Networks (168)
2004–2005	Operating Systems (167) Operating Systems Laboratory (169) Computer Networks (168) Introduction to Systems Programming (with P. Van Hentenryck) (34)
	Computer Games GISP (with B. Hazeltine)

2005-2006

Operating Systems (167)

Operating Systems Laboratory (169)

Introduction to Systems Programming (36)

Honors Theses

1984	Martin Rinard
1986	Luther Kitahata
1994	Scott Raposa
1996	Bryan Cantrill, Kostadis Roussos
1997	Greg Foxman, Adam Krawitz, Michael Radwin
1999	Seth Proctor
2002	Peter Griess
2003	Albert Huang, Eric Schrock

Ма

2003

2003	Albert Huang, Eric Schrock				
Taster's Students					
1980	Karen McGayhey				
1981	Micki Delaware, William Weber				
1982	Sofia Pereda, Kathy Kroenert				
1984	Barry Kritz, Dilip D'Souza				
1985	Russell Ellsworth				
1986	Mason Woo, George Lipsker, John Bowe, Michael Smith, Rich Yampell				
1987	David Benyacar, Yu-Chung Chu, Douglas Rayner, Robert Gilligan				
1988	Ariel Aloni, Alan Gebele, Christine Trumpore				
1989	William Colgate, Ronald Jacoby, Greg Pierce				
1991	Robert Boyer, Spyros Bartsocas				
1993	Tsung-Jen Chou				
1994	Shamsi Moussavi-Aghdam				
1995	Joshua Spiewak				
1996	Charles Hoecker				
1997	Peng Dai				
1998	Zhihao Zhang, James Masi				
1999	Yikang Xu				
2000	Liye Ma				
2002	Charles Thompson				

Roberto Almanza, Zhongfa Yang, Qiang Ye

Ph.D. Students 1984

Scott Smolka, Alessandro Giacalone