Vita for

Charles Paul Riedesel, Ph. D.
Computer Science and Engineering - UNL
259 Avery Hall, Lincoln, NE 68588-0115, (402) 472-3486
riedesel@cse.unl.edu

Education

- Wheaton College, Physics and Mathematics, BS, May 1973
- University of Missouri - Columbia, Electrical Engineering
- University of Nebraska - Lincoln, Computer Science, MS - May 1992, Ph.D - Dec 1995

Appointments

- Assistant Professor of Practice (and Chief Undergraduate Advisor, Computer Science and Engineering), University of Nebraska - Lincoln, Aug 1995, promoted from Senior Lecturer, Aug 2008
- Graduate Teaching Assistant, University of Nebraska - Lincoln, Aug 1989-1995
- Instructor, Southeast Community College - Beatrice, Aug 1980-1989

Professional Memberships and Affiliations

- Computer Society of IEEE, 1996 to date.
- ACM, 1987 to date.
  - SIGCSE (Computer Science Education)
  - SIGCSE (Algorithms and Computation Theory)
  - CSTA (Computer Science Teachers Association)
- ASEE (American Society for Engineering Education), 2006 to date.

Awards

- 7 time recipient (in 11 years) of *Certificate of Achievement* for coaching programming teams to the World Finals, including a 26th place finish (out of 88) in Tokyo, 2007. Note: The count is now 8 times in 13 years.
- 5 time recipient of *Certificate of Recognition for Contributions to Students* by the UNL Teaching Council and the Parents Association.
- Department Recognition: *Students Choice Outstanding Teaching Award (for lower division classes)*, 2006-7 academic year.
- Department Recognition Award *for outstanding contributions to the Department for the 2005-2006 academic year.*
- Nominee for *2005 and 2008 Chancellor's/James V. Griesen Award for Exemplary Service to Students.*

Publications

- Multiple authors, *Enhancing the Social Issues Components in our Computing Curriculum: Computing for the Social Good*, ACM Inroads, vol 2, no 1, 64-83, March 2011. (Developed from a Working Group at ITiCSE 2010.)

- Multiple authors, *Perspectives on Developing and Assessing Professional Values in Computing*, SIGCSE Bulletin – Inroads, vol 41, no 4, 174-194, December 2009. (Developed from a Working Group at ITiCSE 2009.)
- Multiple authors, *Contributing Student Pedagogy*, SIGCSE Bulletin – Inroads, vol 40, no 4, 194-212, December 2008. (Developed from a Working Group at ITiCSE 2008.)
- Charles P. Riedesel, Eric D. Manley, Susan Poser, Jitender S. Deogun, *A Model Academic Ethics and Integrity Policy for Computer Science Departments*, SIGCSE Bulletin – Inroads, vol 41, no 1, 357-361, March 2009. (I was the primary author, having had extensive experience with our department policy development and application.)
- Multiple authors, *Developing a Computer Science-specific Learning Taxonomy*, SIGCSE Bulletin – Inroads, vol 39, no 4, 152-170, December 2007. (Developed from a Working Group at ITiCSE 2007 in Dundee, Scotland. Section 6, *A New Taxonomy for Computer Science*, was composed jointly be me, Tuukka Ahoniemi, and Essi Lahtinen. I also did a large part of the editing of the entire paper for grammar and clarity.)
- Multiple authors, *Concept Inventories in Computer Science for the Topic Discrete Mathematics*, SIGCSE Bulletin – Inroads, vol 38, no 4, 132-142, December 2006. (Developed from a Working Group at ITiCSE 2006 in Bologna, Italy. Section 8, *Proposed Process for Creating a DMCI*, was composed jointly by me and LeenKiat Soh. I also did a large part of the editing of the entire paper for grammar and clarity.)
- Multiple authors, *A Synthesis of Computing Concepts*, SIGCSE Bulletin – Inroads, vol 37, no 4, 162-172, December 2005. (Developed from a Working Group at ITiCSE 2005 in Lisbon, Portugal. I was part of the discussions and initial drafting, but overall had only a minor role in the actual writing.)
- Multiple authors, *Striving for Mathematical Thinking*, SIGCSE Bulletin – Inroads, vol 33, no 4, 114-124, December, 2001. (Developed from a Working Group at ITiCSE 2001 in Canterbury, UK. I was part of the discussions and initial drafting, but overall had only a minor role in the actual writing.)
- J.S. Deogun, C.P. Riedesel, *Hamiltonian Cycles in Permutation Graphs*, The Journal of Combinatorial Mathematics and Combinatorial Computing, 1998, vol 27, 161-200.
- J.S. Deogun, C.P. Riedesel, *Permutation Graphs: Hamiltonian Paths*, The Journal of Combinatorial Mathematics and Combinatorial Computing, 1995, vol 19, 55-63.
- J.S. Deogun, C.P. Riedesel, *Traceability and Toughness in Permutation Graphs*, Technical Report No. UNL-CSE-95-004, April, 1995.

Courses Taught

- CSCE 101 Fundamentals of Computing (I developed this course and lab over 10 years ago and taught it frequently.)
- CSCE 101L Fundamentals of Computing Lab.
- CSCE 105 (now 150A) Problem Solving with Computers.
- CSCE 110 (long cancelled) Introduction to Data Processing.
- CSCE 137 (formerly 237 and now long cancelled) Computer Applications.
- CSCE 150E Problem Solving for Scientists and Engineers.
- CSCE 155 Computer Science I.
- CSCE 156 and RAIK 184H Computer Science II.
- CSCE 230 Introduction to Computer Organization.
- CSCE 310 Data Structures and Algorithms.
- CSCE 322 Programming Language Concepts.

- CSCE 340/830 Numerical Analysis.
- CSCE 335 (now ELEC 370) Digital Logic.
- CSCE 413/813 Database Systems.
- CSCE 423/823 Design and Analysis of Algorithms.
- CSCE 425/825 Compiler Construction.
- CSCE 428/828 Automata, Computation, and Formal Languages.
- CSCE 430/830 Computer Architecture.
- CSCE 451/851 Operating System Principles.