Alec J. Engebretson, Ph.D.
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Academic Experience

Doane College, Crete, NE (January 1990 – present)

Professor of Information Science & Technology
> Teaching experience includes designing and implementing numerous courses for undergraduate students on both the Crete and Lincoln campuses, and for graduate students as part of the Master of Education program. Disciplines in which courses have been taught include computer science, information science and technology, information systems management, liberal arts seminar, education, mathematics, computer applications, and philosophy/religion. Collaborative course development has been performed with faculty members from the disciplines of art, communications, education, and journalism.

> Department responsibilities include developing, implementing, and assessing a computer science major, information systems major, computer studies minor and an information technology teaching endorsement; developing and implementing a long-range plan including mission statement and assessment plan; preparing and administering the budget; coordinating the activities of academic assistants; and interacting with the advisory council.

> Committees served include Doane Plan committee (chair), Faculty Development and Leadership Committee (chair), Learning Communities Committee (co-chair), Academic Affairs Committee, Assessment Committee, Computer Committee (chair), Instructional Technology Committee (chair), Library Committee, Interterm Committee, faculty liaison to Board of Trustees Advancement Committee, and faculty liaison to the Board of Trustees Business Committee. Additional responsibilities include serving as a student academic advisor, sponsor of the Doane Computer Club, and sponsor of Alpha Pi Epsilon fraternity.

Chair of the Division of Science, Mathematics and Information Science & Technology
> Responsibilities included providing overall communication and leadership within the division; leading all division faculty search committees; serving on all faculty committees for review, tenure, and promotion; developing division strategic long-range plan and representing the division in developing the college's strategic long-range plan; providing guidance on assessment within the division; communicating with college administration about division needs; coordinating department budgets and developing division budget; developing division reports; serving as mentor to new faculty; and handling other responsibilities as necessary. (July 2002 – June 2008)

Co-Director, Center for Excellence in Teaching and Learning
> Responsibilities include identifying faculty development needs, and coordinating resources and developing programming to address those needs in cross-disciplinary areas highlighted in the latest strategic plan. These areas currently include interdisciplinary offerings (learning communities), service-learning experiences, communication and critical thinking skills. (July 2009 – present)

Other Experience

Account Systems Engineer, International Business Machines Corporation, Des Moines, IA (June 1984 - January 1990)

> Provided technical support and technical marketing functions to information systems departments using IBM products by outlining and presenting recommendations; preparing and conducting demonstrations, seminars, and benchmarks; and providing project management and capacity planning services. Educated users to increase their ability to evaluate, install, and maintain IBM hardware and software technology. Responsibilities also included leading studies, obtaining necessary resources, and resolving complex problems. The above title reflects two promotions within four years.

Information Systems Support, Buena Vista College, Storm Lake, IA (Summer 1982, 1983)

> Contributed to the management and maintenance of campus computers. Utilized programming skills in developing software. Instructed young students at summer computer camps.

Professional Programmer, Sunshine Services, Storm Lake, IA (Fall 1982)

> Analyzed the information systems needs, and designed and implemented a package of programs and utilities to aid in the operation of this small business.

Formal Education

Doctor of Philosophy, December 1997, University of Nebraska-Lincoln, Lincoln, NE
Major: Computer Science
Dissertation: *The Cognition of End User Program Comprehension*

Master of Science, December 1991, University of Nebraska-Lincoln, Lincoln, NE
Major: Computer Science
Thesis: *Learning Performance and Behavior of Discretionary Users of Spreadsheet Applications: An Exploration of the Effects of Transfer of Knowledge and Training Method*

Bachelor of Science, May 1984, Buena Vista College, Storm Lake, IA
Major: Computer Science/Mathematics
Obtained: Iowa Teacher's Certificate with endorsement in 7-12 mathematics

Professional Education

International Business Machines Corporation (1984-1989)

Successfully, and with distinction, completed 15 advanced technical and marketing courses. Also participated in numerous industry seminars and technical updates.

Topics of study included project management, resource management, time management, planning, needs assessment, and financial analysis. Study also included work in hardware and software architectures, systems analysis and design, application development, operating systems, and programming languages.

Selected Professional Activities and Honors

Member of the Doane College Ad hoc Committee on Technology and Learning (August 2010-May 2011)

Member of the self-study steering committee and two criterion committees for the Doane College 2011 HLC of NCA Accreditation Review (August 2009-October 2011)

Doane College Zenon C.R. Hansen Leadership Award, May 2008

Aldrich Prairie Research Site Advisory Board, Doane College, summer 2008-present.

Doane College Summer Undergraduate Research project mentor, summers of 2008 (collaborated with Political Science professor and student), 2005 (collaborated with Political Science professor and student), and 2003

Microsoft summer workshops. Selected to participate in two summer workshops learning and applying the latest Microsoft technologies. University of Evansville, June 2007

Learning Communities National Summer Institute. Selected as part of a team of Doane faculty. Washington Center, Evergreen State University, June 2006

Wiedenbeck, S. and Engebretson, A.J. *Comprehension Strategies of End-User Programmers in an Event-Driven Application*. Proceedings from the 2004 IEEE Symposium on Visual Languages - Human Centric Computing (VLHCC'04), 2004

Who's Who Among America's Teachers, 2004 and 2002. Nominated by students

Engebretson, A.J. and Meysenburg, M.M. *Project-Based Courses*. Proceedings from the Midwest Instruction and Computing Symposium (MICS), April 2003, Duluth, MN.

Council of Independent Colleges Division Leader Workshop, St. Louis, MO. June, 2002

Engebretson, A.J. and Wiedenbeck S. *Novice Compehension of Programs Using Task-Specific and Non-Task-Specific Constructs*. Proceedings from the Empirical Studies of Programmers: 2002 IEEE Symposium on Human Centric Computing Languages and Environments, Arlington, VA, September 2002

Engebretson, A.J. *On the Use of Developmental Portfolios for Growth and Assessment*. Proceedings from Midwest Instruction and Computing Symposium (MICS) 2002, April 2002, Cedar Falls, IA

Engebretson, A.J. *Building Experiences Outside the Computer Classroom Inside the Computer Curriculum*. Proceedings from Midwest Instruction and Computing Symposium (MICS) 2001, April 2001, Cedar Falls, IA

Engebretson, A.J. *Assessment of a computer science major and information systems major: One college's approach and experiences*. Proceedings from Midwest Instruction and Computer Symposium (MICS) 2000, April 2000, St. Paul, MN

University of Nebraska-Lincoln Teaching Excellence Award (served as adjunct faculty member for one course), Fall 1998

Applying a model for training teachers to use technology. Presented at the National Education Computing Conference (NECC) '96, June 1996, Minneapolis, MN

A course to teach teachers technology. Presented at the Nebraska Educational Technology Association (NETA) conference, April 1996, Omaha, NE

IBM Regional Manager Award for Achievement (1989)

IBM Systems Engineering Symposium (1986, 1988)

IBM Branch Excellence Award (1986, 1987, 1988)

Community Involvement and Leadership

Crete Rotary Club (President 2008-09)
Crete Band Boosters (President 2009-10)
Grace United Methodist Church (Education committee/teacher)
Youth coach, Crete Recreation (baseball, softball, football, soccer, volleyball)

References

Available upon request