

John P. Buerck, Ph.D.

**Brouster Hall, Room 230
Saint Louis University**

**(314) 977-2320
buerckjp@slu.edu**

EDUCATION

Doctor of Philosophy - Saint Louis University, 1993
Major Field: Curriculum/Instruction (Research emphasis on computer education)

Master of Science - Southern Illinois University – Carbondale, 1988
Major Field: Agricultural Education & Mechanization

Bachelor of Science & Associate of Science - Southeast Missouri State University, 1987
Major Field: Agribusiness/Animal Science & Computer Science

ACADEMIC AND CORPORATE EXPERIENCE

Associate Dean of Academic Affairs
School for Professional Studies, Saint Louis University
2013 – Present

Director & Professor, Computer Information Systems
School for Professional Studies, Saint Louis University
2014 – Present

Chair & Associate Professor, Computer Information Systems
School for Professional Studies, Saint Louis University
2004 – 2014

Interim Associate Dean of Academic Development
School for Professional Studies, Saint Louis University
2010 – 2011

Secondary Appointment – Associate Professor
Health Informatics and Information Management, Doisy College of Health Sciences, Saint Louis University
2007 – 2010

Chair & Assistant Professor, Computer Science Technology Department
School for Professional Studies, Saint Louis University
1998 – 2004

Technical Education Specialist
Information Services Center For Technical Education, Southwestern Bell, St. Louis Missouri
1992 – 1998

Systems Analyst
Information Services, Southwestern Bell
1988– 1992

Graduate Research Assistant & Teaching Assistant of Computer Science in Agriculture
College of Agriculture, Southern Illinois State University, Carbondale Illinois
1987 – 1988

UNIVERSITY SPONSORED GRANTS

- 2008 – VOICES Faculty Sustainability Grant
- 1999 – “Ethics Across the Curriculum” Summer Grant

HONORS & AWARDS

- Saint Louis University Faculty Excellence Award, Student Government Association – 2012
- Saint Louis University School for Professional Studies 2003 Teacher of the Year Award
- Saint Louis University School for Professional Studies 2001 Faculty Excellence Award for Student Mentoring

RESEARCH INTERESTS

- Learning Analytics and Its Application in Student Success and Student Retention
- Informatics and Its Applications
- Social, Professional, and Ethical issues in computing
- Curriculum, Instruction and Program Administration

COMPUTING EXPERIENCE

PC/WORKSTATION: Broad experience with the PC/Workstation and some experience with Apple/Macintosh. Desktop and database application experience includes: MS Office Suite, Adobe Acrobat, Symphony, SPSS, Access, dBase, SQL Server, and Oracle. PC/Workstation programming includes Visual Studio.Net, Active-X, Power Builder, C++, C, Java, COBOL, and BASIC. Hardware knowledge includes all aspects of daily maintenance, installation, trouble-shooting, and replacement of internal/external components.

MAINFRAME: Programming experience includes: extensive development using COBOL, Assembler Language, PL1 and DB2 in the mainframe environment. Hands-on training with the C programming language, and fourth generation languages including SQL+, FOCUS, and Level 5.

UNIX: Performed application training of several UNIX-based systems including: Oracle and its suite of products, UNIPLEX's e-mail, word processing and spreadsheet tools, and Applied Technologies' tools. Additional UNIX knowledge includes: UNIX Shells (Csh, Bash, etc.), Vi editor, and the C language in UNIX-like environments.

NETWORKS: Comprehensive experience with the major LAN/WAN and Wireless networks including: Microsoft NT/LAN Manager and the Internet's TCP/IP in both token ring and Ethernet environments. Some experience with Novel Netware. Detailed understanding of the afore-mentioned networks in the successful development and implementation of client-server technology.

TELEPHONY: Broad experience with voice and data telephone networks including: ISDN, PRI, BRI, and Select Video Plus services.

COPYRIGHTED SOFTWARE

Developed and copyrighted a software application titled “Ethical Aide.” This application can be used by professors and students in an ethics-related course to analyze ethical dilemmas while learning how to apply the basic philosophical theories of Utilitarianism, Deontological and Virtue Ethics. The application was developed using object-oriented methodology and the Visual Studio.NET integrated development environment in 2003.

PUBLICATIONS

- Buerck, J. P., Mudigonda, S. P., Grawitch, M. J., Salinas, S. V. (2016). Implementation of Virtual Computing Environments for Online Computer Science Instruction. International Conference: Frontiers in Education.
- Mudigonda, S. P., Buerck, J. P., Grawitch, M. J. (2016). Standardized, Rubrics-Based Design and Delivery of Online Courses: Lessons Learned. International Conference: Frontiers in Education.
- Buerck, John P, & Mudigonda, Srikanth P. (2014). A resource-constrained approach to implementing analytics in an institution of higher education: an experience report. *Journal of Learning Analytics*, 1(1), 129-139.
- Buerck, J. P., Mudigonda, S. P., Mooshegian, S. E., Collins, K., Grimm, N., Bonney, K., & Kombrink, H. (2013). Predicting non-traditional student learning outcomes using data analytics - a pilot research study. *Journal of computing Sciences in Colleges*, 28(5), 260-265.
- Mudigonda, S. P., Buerck, J. P. (2012). The Design of an Undergraduate Web Application Development course using Free Technologies and Learning Materials. *Journal of Computing Sciences in Colleges*, 27(5), 131-139.
- Devkota, B. P., & Buerck, J. P. (2012). Electronic health records and products recall management for patient safety in health care. *Electronic Health Records & Patient Safety*, 10(2), 132-133.
- Barber, L., Bagsby, P., Grawitch, M., & Buerck, J. P. (2011). Facilitating self-regulated learning with technology evidence for student motivation and exam improvement. *Teaching of Psychology*, 38(4), 303-308. intl-top.sagepub.com/content/38/4/303.abstract
- Buerck, J. P., Fisher, J. E., Mathieu, R. G. (2011). Ethics of Spam. *International Journal of Internet and Enterprise Management (IJIEM)*, 9(4), 350-361.
- Buerck, J. P., Bagsby, P., Mooshegian, S. E., & Willoughby, L. M. (2011). Informatics in the classroom: An evaluation of innovative and effective use of technology in online courses. *Journal of Computing Sciences in Colleges*, 38(4),
- Smith, J. K., Buerck, J. P., McDurmont, L. L., & Bagsby, P. G. (2009). Multidisciplinary informatics: a primer for course development. *Journal of Computing Sciences in Colleges*, 24(5), 198-203.
- Smith, J. K., & Buerck, J. P. (2007). A multidisciplinary approach to graduate education in informatics: A proposal in process. *Journal of Computing Sciences in Colleges*, 22(4), 39-45.
- Buerck, J. P., & Feig, D. (2006). Knowledge discovery and dissemination: a curriculum model for informatics. *The SIGCSE Bulletin*, 38(4), 48-51.
- Buerck, J. P., Werner, D., & Asaithambi, A. (2003). Integrating ethics into a computer science and technology curriculum: Challenges, accomplishments, and new opportunities. *American Philosophical Association Newsletter on Philosophy and Computers*, 2, 98-102.
- Buerck, J. P., Malmstrom, T., & Peppers, E. (2003). Learning environments and learning styles: Non-traditional student enrollment and success in an internet-based versus a lecture-based computer science course. *International Journal on Learning Environments Research*, 6(2), 137-155.
- Buerck, J. P. (2002). "Ethics" – a curriculum enhancement initiative in applied computer science technology degree programs. *Teaching Business Ethics*, 6(2), 167-177.
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Buerck, J. P., & Peppers, E. (2001). Rebirth of the paperless pursuit: Finding new life through advances in technology. *Journal of Information Management*, 14(3), 25-30.

Buerck, J. (2000). The Digital Revolution, Stimulating Intellectual Diversity within the Computer Science Discipline – A Case In Point. *International Journal of Scholarly Academic Intellectual Diversity*. 5(1), 3-4.

CONFERENCE PRESENTATIONS

Buerck, J. P., Mudigonda, S. P., Mooshegian, S. E., Collins, K., Grimm, N., Bonney, K., & Kombrink, H. (April 13, 2013). *Predicting Non-traditional Student Learning Outcomes Using Data Analytics - A Pilot Research Study*. Consortium for Computing Sciences in Colleges- Central Plains Conference, Kansas City, MO.

Buerck, J. P., Buckley, M. A., Collins, K. D., & Lohe, D. K. (April 18, 2012). *A Collaborative Approach to Growing Tegrity Adoption*. Tegrity User Conference, Seattle, WA.

Buerck, J. P., Bagsby, P. G., Mooshegian, S. E., & Willoughby, L. M. (April 8, 2011). *Informatics in The Classroom: An Evaluation of Innovative and Effective Use of Technology in Online Courses*. Consortium for Computing Science in Colleges- Central Plains Conference, Warrensburg, MO.

Barber, L. K., Buerck, J. P., Grawitch, M. J., & Bagsby, P. G. (May, 2010). *Facilitating Self-regulated Learning with Technology: Evidence for Student Motivation and Exam Improvement*. Midwestern Psychological Association Annual Meeting, Chicago, IL.

Brown, N., Wall, A., & Buerck, J. P. (November 12-15, 2009). *Vocation and Service Learning: Fostering Citizenship Through an Informatics Curriculum*. The Society for Ethics Across the Curriculum 11th Annual International Meeting, Rochester, NY.

Buerck, J. P., Smith, J., Slavin, S., Staines, G., Schmitz, H., & Van Slyke, C. (November 13-18, 2009). *Professional Masters in Health Informatics: A Multidisciplinary Approach*. The American Medical Informatics Association Conference, San Francisco, CA.

Smith, J. K., Buerck, J. P., McDurmont, L. L., & Bagsby, P. G. (2009, April 3-4). *Multidisciplinary Informatics: A Primer for Course Development*. The Fourteenth Annual CCSC Central Plains Conference, Bolivar, MO.

Smith, J. K., & Buerck, J. P. (July 12-16, 2008). *Masters in Health Informatics: A Collaborative Model*. The AHIMA 2008 Assembly on Education Summer Symposium and Faculty Development Institute, Louisville, KY.

Oliver, D. A., Osman, M., Varvares, M. A., Buerck, J. P., & Kallogieri, D. (September 9-12, 2007). *Contribution by a Multidisciplinary Team of "in-training" Medical Professionals, for the Continuous Development of a Customizable Database for the Evaluation and Dissemination of Translational and Evidenced Based Clinical Research*. The 2007 Anatomic Pathology Informatics and Imaging Support for Translational Medicine Conference, Pittsburgh, PA.

Popp, C., Buerck, J. P., Oliver, D., & Varvares, M. (August 13-16, 2007). *Using an Electronic Data Management System to Identify Health Disparities in Oncology Dietetic Practice*. The 2007 CDC Cancer Conference, Atlanta, GA.

Buerck, J. P. (July 8-11, 2007). *Applying Medical Informatics to Support Evidence-based Clinical Practice*. The 11th World Multi-Conference on Systemic, Cybernetics and Informatics.

Buerck, J. P. (April 13-14, 2007). *A Multidisciplinary Approach to Graduate Education in Informatics: A Proposal in Process*. The 13th Annual Consortium for Computing Sciences in Colleges Central Plains Conference, Springfield, MO.

Oliver, D. A., Buerck, J. P., Kallogjeri, D., Keibert, K., Harbison, D., Walz, B., Bucholz, R., & Hardin, J. W. (January 25-27, 2007). *A Practical Database for Management of an Academic Cyberknife Site*. The Cyberknife Annual Conference.

Buerck, J. P. (June 24-25, 2005). *The Role of Cases in Teaching Ethics*. The 8th Annual Ethics & Technology Conference, St. Louis, MO.

Buerck, J. P. (June 24-25, 2005). *Buying on ebay: I Received a "Copied" DVD From A Seller*. The 8th Annual Ethics & Technology Conference, St. Louis, MO.

Buerck, J. P. (July 10-13, 2005). *Informatics Curriculum – A Framework for Teaching the Skills Needed to Support Knowledge Discovery and Dissemination*. The 9th World Multi-Conference on Systemic, Cybernetics and Informatics, Orlando, FL.

Buerck, J. P. (April 3-4), 2004. *Conference Tutorial: How to Incorporate the Social and Professional Issues Component of the ACM 2001 Computing Curriculum into a Computer Science Degree Program*. The Tenth Annual Conference of the Central Plains Region of the Consortium for Computing Sciences in Colleges Meeting, Warrensburg, MO.

Buerck, J. P., Fisher, J. E., & Mathieu, R. G., (June 25-26, 2004). *The Ethics of Spam: Definitional and Descriptive Dimensions*. The 7th Annual Ethics & Technology Conference, Chicago, IL.

Buerck, J. P. (June 25-26, 2004). *Spam in the 2nd Millennium – Where is it Headed? (panel)*. The 7th Annual Ethics & Technology Conference, Chicago, IL.

Buerck, J. P., Fisher, Bakanas, Bledsoe, Durham, Asaithambi, & Werner, (October 27-29, 2002). *Curriculum Challenges: Teaching Professional Ethics in Science & Technology*. International Conference on Ethics Across the Curriculum, Clemson, SC.

Buerck, J. P. (June 27-28, 2003). *Ethical Aide: A Demonstration of a Software Application for Organizing and Teaching Ethics using the Utilitarian, Deontological and Virtue Ethics Models*. The Sixth Annual Ethics and Technology Conference, Boston, MS.

Buerck, J. P., & Murphy, J. (February 21-23, 2003). *Thinking Machines, Automated Administration, Citizen Participation, and a Guaranteed Income*. Ethics for an Insecure Homeland Conference, New York, NY.

Buerck, J. P., & Asaithambi, A. (November 20-23, 2002). *Assisted Instruction – Developing Learning Communities for Adults within Professional Degree Programs*. American Association for Adult and Continuing Education (AAACE) 51st National Adult and Continuing Education Conference, St. Louis, MO.

Werner, D., Buerck, J. P., Bowers, P., & Timm, T. (March 1-4, 2001). *Faculty Grants and the Implementation of Ethics Across the Curriculum*. Association for Practical and Professional Ethics, Cincinnati, OH.

Buerck, J. P. (March 8-10, 2000). *Program Policy Through Learning Styles: An Examination of Non-Traditional Student Participation and Success in an Internet-Based Distance Education Course*. The International Conference on Learning Technology (ICLT 2000) - CD, Philadelphia, PA.

Buerck, J. P., & Cary, J. (October 4-6, 1998). *Creating Partnerships: Teaming Mehlville School District with Saint Louis University for Adult Computer Education*. The Missouri Department of Elementary and Secondary Education Morenet Leadership Academy, Springfield, MO.

BOOK & JOURNAL REVIEWS

Buerck, J.P. (2013). Review of the Book: *Programming with Visual Basic 2012* by Diane Zak. (6th ed.). Boston, MS: Course Technology-Cengage Learning.

Buerck, J.P. (2010). Review of Journal: *Internet Technology: Emerging Technologies & Applications*. International Journal of Electronic Business (IJEB).

Buerck, J.P. (2010). Review of the Book: *Programming Logic & Design* by Joyce Farrell. (6th Ed.). Boston, MS: Course Technology-Cengage Learning.

Buerck, J.P. (2009). Review of the Book: *Just Enough Visual Basic* by Jo Ann Smith. Boston, MS: Course Technology-Cengage Learning.

Buerck, J.P. (2007). Review of the Book: *Starting out with Programming Logic & Design*. (3rd Ed.). Addison-Wesley.

UNIVERSITY, SCHOOL, DISCIPLINE AND COMMUNITY SERVICE

University

- University Marshal, Committee Member, appointed (1998 - Present).
- University Rank and Tenure, Committee Member (2008 - Present).
- University Academic Projects Prioritization and Review Team, Committee Member (2009 - Present).
- SPS Representative on the Associate Dean for Research Committee, Committee Member (2011 - Present).
- University Learning Outcomes Rubric Development Committee (June 3 – 7, 2013).
- School of Informatics Planning/Proposal Committee, Committee Member (May 2012 - December 2012).
- University Lecture Capture Advisory Committee, Committee Member, appointed (September 1, 2010 - May 2012).
- University Higher Learning Commission Committee, Criteria #3 Committee Chair (August 1, 2010 - April 2012).
- Librarian Search Committee (SPS Liaison), Committee Member (March 2011 - October 2011).
- Health Informatics Faculty Search, Committee Member (January 2011 - September 2011).
- University Undergraduate Academic Affairs Committee, Committee Member (March 1, 2010 - July 1, 2011).
- Ethics Across the Curriculum Committee, Member (1999 – 2008).
- Beaumont & Summer Grant Reviewer (2004 - 2006).
- Service & Ethics Committee, College of Public Service, Chair (2006).
- Presidents Scholars Weekend Faculty Interviewer (2003 - 2005).

School

- SPS Mission Committee, Committee Member, Committee Chair (July 2010 - Present).
- SPS Curriculum Committee, Committee Chair (2011 - Present).
- SPS Faculty Senate, Committee Member (July 2011 - Present).
- SPS Faculty Task Force, Committee Member (July 2011 - Present).
- General Studies & Core Curriculum Search Committee, Committee Chair (2013).
- SPS Technology Coordinator Search Committee, Committee Chair (2013).
- SPS Distance Learning Coordinator Search Committee (2013).

- Assistant Chair Computer Information Systems Search Committee, Committee Chair (2013).
 - Director Organizational Informatics Search Committee, Committee Chair (2012).
 - E-Learning Committee, Committee Member (January 2011 - July 2012).
 - SPS Associate Dean Search, Committee Member (April 2011).
 - LOD Director Search, Committee Chair (February 2011 - April 2011).
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- SPS Retention Committee, Committee Member (February 2011).
- eLearning Committee, Committee Chair (January 2009 - January 2011).
- SPS Dean Search, Committee Member (2010).
- SPS Assistant Chair – Computer Science Technology Search Committee, Committee Chair (2009).
- SPS Academic Advisor Search Committee (2009).
- SPS Criminal Justice Organization Chair Search Committee, Chair (2007).
- SPS Dean Search Committee, Member (2005).
- SPS Organizational Studies Assistant Director Search Committee, Member (2005).

Discipline

- Curriculum and Advisory Board Member – Computer Science Department, Southeast Missouri State University (2003 - Present).
- Curriculum and Advisory Board Member – Computer Information Systems Department, Southwestern Illinois College, Belleville (2005 - July 2012).

Community

- Financial Secretary – Knights of Columbus, Smithton Council #14851 (2009 – 2012).
- Director – Parish School of Religion Program, St. John the Baptist, Smithton (1997 - 2008).
- Secretary – Smithton Athletic Association (2001 - 2005).

PROGRAM DEVELOPMENT

Bachelor's Degree

Following a self-study to review our program, developed and implemented a new Bachelor of Science degree program in Computer Information Systems (CIS). Concentrations within the CIS program includes: 1) Information Security and Assurance, 2) Data Analytics, 3) Web Technologies and 4) Healthcare Information Systems (2013).

In Partnership with Doisy College of Health Sciences – Health Informatics & Information Management Department (HIIM): developed and implemented a Bridge Program between the School for Professional Studies Computer Science Technology degree program and the Health Information Management degree program (2004).

Modified the Computer Science Technology program: developed and implemented a concentration in Informatics within the Bachelor of Science Computer Science Technology program (2005). A Minor and Post Bachelor Certificate was developed and implemented for the Informatics concentration.

Modified the Computer Science Technology program: developed and implemented a concentration in Computer Science and a concentration Information Systems within the Bachelor of Science Computer Science Technology program (2002). Minors and Post Bachelor Certificates were developed and implemented for both concentrations.

Modified the Computer Science Technology program: Developed and implemented a 24 Credit Minor and a 24 Credit Post Bachelor Certificate in Computer Science Technology (2000).

Master's Degree

Developed and implemented a Master of Science degree program in Applied Analytics (2010).

In Partnership with Doisy College of Health Sciences – Health Informatics & Information Management Department,
Developed and implemented a Master of Science in Health Informatics (2008).
