

James A. Dudek

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Department of Math, Science and Technology
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Professional Preparation

August 1996, M.A., Technical Education, Chadron State College - Chadron, Nebraska
May 1974, B.A., Art and Education, Hastings College - Hastings, Nebraska

Professional Appointments

2004 - present, Information Technology Faculty, Oglala Lakota College
2009 - 2013, Coordinator of Distance Learning, Oglala Lakota College
2010 - 2012, Field Supervisor, EPSCoR RIIC2, Oglala Lakota College
2004 - 2009, Information Technology Department Chair, Oglala Lakota College
1999 - 2004, Instructor of Management Information Systems, Oglala Lakota College
1993 - 1999, Instructor of Business Administration, Oglala Lakota College

Publications

Chunqiu Wang, Wei Wang, Kazem Sohraby, Yanxiao Zhao, James Dudek. Spring 2013. Deep Space Communication Relay Services under Energy Constraint with Optimal Power Control.

Chunqiu Wang, Wei Wang, Kazem Sohraby, Yanxiao Zhao, James Dudek. Spring 2013. QoS Optimized and Energy Efficient Power Control for Deep Space Multimedia Communications in Interplanetary networks..

Grant Projects

2012-2014 *A Proposal for Optimal Power and Relay Selection in Wireless Relay Networks.* A collaboration of South Dakota School of Mines and Technology and South Dakota State University. Funded by National Aeronautics and Space administration (NASA) and Experimental Projects to Stimulate Competitive Research (EPSCoR), Minority-Serving Institution Faculty Engagement Competition, 2012-2014. Award: \$249,497. Co-PI.

Collaborators: Edward Duke, Ph.D. South Dakota School of Mines and Technology. Kazem Sohraby, Ph.D. South School of Mines and Technology. Wei Wang, Ph.D. South Dakota State University.

2010-2012 *Research Infrastructure Improvement Program: Inter-Campus and Intra-Campus Cyber Connectivity (RII C2)* – A collaboration of Oglala Lakota College, Sinte Gleska University, Sisseton Wahpeton College, Augustana College and South Dakota State University. Funded by South Dakota Experimental Projects to Stimulate Commutative Research (EPSCoR) 2010-2012. Award \$1,000,000. Field Supervisor.

Collaborators: James A. Rice, Ph.D. South Dakota State University. Daniel L. Sweets, Ph.D. Augustana College. Sudodh Singh, Sinte Gleska University. Scott Morgan, Sisseton Wahpeton Community College. Claude Garelik, Chief Networking and Security Officer, South Dakota Board of Regents. Gerald Giraud, Ph.D. Vice President of Academic Affairs. Oglala Lakota College. Wayne Pauli, Ph.D. Network Evaluator, Dakota State University.

2009-2010 *Model Institutes of Excellence*, Math and Science Department. A project of the National

Science Foundation. Develop and design a Distance Learning Program with a cadre of courses.

1999-2000 *Carl Perkins Vocational Education*. Funded by US Department of Education. 1999-2000. Award: \$3,000,000. PI.

Conflicts of Interest

- Kazem Sohraby, Ph.D. South School of Mines and Technology.
- Wei Wang, Ph.D. South Dakota State University.
- Wang Chunqui, Ph.D. South Dakota State University
- Yanxiao Zhao, Ph.D. South Dakota School of Mines and Technology
- Hannan LaGarry, Ph.D. Oglala Lakota College
- Jason Tinant, MS, Oglala Lakota College

Current Synergistic Activities

- Member of Math and Science Department
- Coordinator and faculty of Information Technology degree

Past Activities

- Serve on a college governance committee and the Distance Learning Subcommittee of Instructional Affairs
- Responsible for design and administration of OLC's a distance learning Virtual Campus
- Responsible for approval of distance learning course and certification of distance learning instructors
- Responsible for the formulation and implementation an annual departmental strategic plan. This plan includes assessing student learning and reviewing department degree programs of Information Technology.
- Administrator access to the online course management system, Moodle and Virtual Campus
- Web page developer for Oglala Lakota College
- Web page developer for Math and Science Departments and Distance Learning Virtual Campus
- Served on the college Institutional Review Board (IRB)
- Served on the Institutional Strategic Planning Committee
- Served on the NCA Focused Visit Task Force

College and University Courses Taught

Oglala Lakota College, Kyle, SD

2014 IT 383 Current Topics in IT: Wireless Communications (3 credit hour)

2014 MIS 113 Applied Information Processing (3 credit hour)

2014 IT 203 C++ Programming (3 credit hour)

2013 IT 373 Web Design Fundamentals (3 credit hour)

2013 IT 153 Survey of Operating Systems (3 credit hour)

2013 SCI 113 Technical Writing (3 credit hour)

2013 IT 323 Command Line Interface (3 credit hour)

2013 IT 333 Network Administration (3 credit hour)

2013 IT 404 Network Protocols (4 credit hour)

2012 IT 203 Programming (3 credit hour)

2012 IT 303 Introduction to UNIX (3 credit hour)

2012 IT 363 Implementation and Administration of Web Servers (3 credit hour)

2012 MIS 113 Applied Information Processing (3 credit hour)

2012 IT 103 Theory of Computational Devices (3 credit hour)

2011 IT 203 Programming (3 credit hour)

2011 MIS 113 Applied Information Processing (3 credit hour)

2011 IT 373 Web Design Fundamentals (3 credit hour)

2010 IT 203 Programming (3 credit hour)

2010 IT 153 Survey of Operating Systems (3 credit hour)

2010 IT 103 Theory of Computational Devices (3 credit hour)

2010 Virtual Campus Faculty Development / Orientation

2009 DL 401 Distance Learning Faculty Development (1 credit hour)

2009 IT 343 Application Software TnT (3 credit hour,)

2009 IT 383 Current Topics in Information Technology (3 credit hour)

2008 IT 153 Survey of Operating Systems (3 credit hour)

2008 IT 353 Internet Technologies (3 credit hour)

2008 IT 333 Network Administration (3 credit hour)

2008 IT 323 Command Line Interface (3 credit hour)

2008 IT 343 Application Software TnT (3 credit hour)

2208 MIS 113 Applied Information Processing (3 credit hour)

2007 IT 243 Introduction to Networking (3 credit hour)

2007 IT 203 Programming I (3 credit hour)

2007 MIS 113 Applied Information Processing (3 credit hour)

Committees

- Instructional Affairs Governance Committee (2007 - Present)
- Self-Study Task Force, 2013 HLC Accreditation Oversight Committee (2012 – 2013)
- Institutional Review Board (IRB) (2005 - 2012)
- Web Page Design Subcommittee of Instructional Affairs (2010 – 2011)
- Distance Learning Subcommittee of Instructional Affairs (2007 – 2010)
- NCA Focused Visit Task Force (2008 - 2009)
- Institutional Strategic Planning Committee (2005)
- Institutional Assessment Committee (1999 - 2007)

Conferences Attended

- Internet2 Members Meeting, April 2012, Arlington, VA
- Internet2 Members Meeting, October 2011, Raleigh, NC
- Cyber-Infrastructure in the EPSCoRs, October 7-8, 2010, Arlington, VA
- Cyber-Enabling Research, Education and Economic Development: 2009 SD/WY State EPSCoR Meeting – September 23-24, 2009. Rapid City, SD
- Minority Serving Institutions – Cyber-Infrastructure Empowered Coalition, North Dakota Tribal Colleges Cyber-Infrastructure Day – April 17, 2009, Bismark, ND
- Higher Learning Commission Annual Meeting – April 2005, Chicago, Ill
- Indian Vocational Education Project Directors Training Meeting - Aug 1999, Washington, D.C.
- South Dakota Vocational Education Association Annual Meeting - Aug 1998, Pierre, SD
- National Indian Education Association Convention - April 1996, Rapid City, SD
- Native American Renewable Energy Education Product – 1996, UC-Berkeley, Berkeley, CA (Three credit hours of science education teaching methods were earned)
- Trouble Shooting Novell NetWare - September 1994, Denver, CO

- National Education Computing Conference - June 1994, Boston, MA
- International Entrepreneurship Education Forum - May 1994, Minneapolis, MN
- Technology/Innovation in Education Conference - April 1993, Rapid City, SD
- American Indian Higher Education Consortium - April 1993, Rapid City, SD

Honors and Awards

2012 American Indian College Fund, Oglala Lakota College - Faculty of the Year

Graduate Committee Advisers (M.A.)

- Lee Moeller, Ph.D. Department of Technical Education, Chadron State College
- Earnest Hatch, Ph.D. Department of Technical Education, Chadron State College
- Loren Froelich, Ph.D. Department of Psychology, Chadron State College

Students

Undergraduate Students: Patrick White Cow Killer, Nicholas Gibbons, Jeffrey Jones