

Michael A. Lundin

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Experience

Associate Professor (Mathematics)	2005-Present	Central Washington University
Assistant Professor	2001-2005	Central Washington University
Statistics Instructor	2001-2002	Montana State University
Assessment Coordinator	1996-2000	Montana State University
Professional Development Chair	1993-1996	SIMMS Project
Writer-Research Assistant	1992-1993	SIMMS Project
Assistant Professor	1988-1990	Western Montana College
Mathematics Instructor	1980-1988	Various Universities
Mathematics Teacher	1978-1980	Blessed Sacrament School

Education

Ed. D. (Mathematics Education)	2001	Montana State University
All but Dissertation (Pure Mathematics)	1990	University of Montana
MS (Applied Mathematics)	1982	University of Colorado
Teaching Certificate (Middle and Secondary Mathematics)	1980	University of Colorado
BA (Biology)		University of Colorado

Accomplishments

- Director, MAT Graduate Mathematics Education Program; established graduate curriculum and project standards, established program assessment, and improved program quality
- Math Advance Initiative developer, promoting transition to college mathematics courses in high schools, piloted Fall 2005.
- Writer for the Transition Mathematics Project Standards Committee, developing mathematics standards for grades eleven and twelve.
- Mathematics coordinator and Assessor for the Cornerstone Project (College in the High School Program), Central Washington University 2001-2004; developed that position into a funded one.
- Designer, Coordinator, and instructor for the Tribal College Math and Science Summer Workshop, STEP Project, MSU, 1999
- Assessment Coordinator for the SIMMS-IM Project, 1995-2000

- Head writer and developer of Integrated Mathematics Assessment Workshop (IMAW), 1996-1998
- Designer and coordinator the first interactive video mathematics course for teachers in Montana, 1996-1997
- Designer, coordinator, and instructor for Teacher-leader Institutes in conjunction with the Systemic Initiative for Montana Mathematics and Science (SIMMS) Project, 1992-1995
- Designer, coordinator, and teacher for the SIMMS components for the University of Montana Upward Bound Project, 1992-1995
- Mathematics curriculum writer for the SIMMS Project, Level I (published) 1992-1993
- Supervisor and instructor for student teachers from Western Montana College and the University of Montana, 1990-1992

Grants and Awards

- Sabbatical 2009-2010 (*Creating STEM Curricula for the High School Senior Year*)
- Central Washington University Center for Excellence in Science and Mathematics Education (CESME) Award (with Dr. Stuart Boersma) for curriculum writing/course development. \$2000
- Central Washington University Center for Excellence in Science and Mathematics Education (CESME) Award, leading to publication (*Optimal Soaring and Landing Out*), \$800.
- Gear Up Research Grant—Department of Education, Resulted in Published Paper, \$10,000, 2004, Lead Researcher.
- Interdisciplinary Lively Applications Project, Assessment Advisor, \$75,000, 2004, Module Writer, Assessment Advisor
- Quarter Buy-Out for Assessment of Cornerstone Program, \$15,000, 2004, Assessment Coordinator
- DDE Award—Teaching Integrated Mathematics Using Interactive Video, (\$45,000), 1995, PI
- DDE Award—Teaching Integrated Mathematics Using Interactive Video (\$15,000), 1994, PI
- US Senate recognition of the Interactive Video Abacus Project—Excellence in distance learning using interactive video (in conjunction with DDE Award), 1995, PI

Publications

- Lundin, M. A. (2008). Optimal soaring: What is the best speed to fly? Math Horizons, April, pp. 12-15. (Feature Article)
- Moore, B. et al. (2006) College readiness mathematics standards. Olympia, WA: Washington State Board for Community and Technical Colleges.
- Lundin, M. A., Oursland, M., Lundgren, M., & Reilly, M. (2004-2005). Mathematics preparation for college: some things we learned the hard way, and what we do about them. NCSM Journal of Mathematics Education Leadership, 7 (2), 18-23.

- Boyce, K, Longhart, K., Lundin, M., & Umbaugh, K. (2006). What Will We Do When the Well Runs Dry? In SIMMS Project Level I (3rd ed.), (pp. 101-125). Dubuque, Iowa Kendall/Hunt Publishing Company.
- Bauer, G., Boyce, K., Lundin, M., & Umbaugh, K. (2006). Oil: Black Gold. In SIMMS Project Level I, (3rd ed.), (pp. 151-172). Dubuque, Iowa: Kendall/Hunt Publishing Company.
- Lott, J., Hirstein, J., Allinger, G., Whalen, S., Burke, M., Lundin, M., Souhrada, T., & Preble, D. (2003). Curriculum and Assessment in SIMMS Integrated Mathematics (Chapter 17). In S. L. Senk and D. R. Thompson (Eds.) Standards-Oriented Mathematics Curricula. Mahwah, New Jersey: Lawrence Earlbaum and Associates.
- Lundin, M. A. (2001). A Comparison of Former SIMMS and Non-SIMMS Students on Three College-Related Measures. Unpublished Doctoral Dissertation, Montana State University, Bozeman.
- Allinger, G., Lott, J. W., & Lundin, M. A. (1998). Attitudes and Performance of College Freshmen Who Used the SIMMS Integrated Mathematics Curriculum. In J. Lott and G. Allinger (Ed.) The SIMMS Project Monograph 5: The Classroom. (pp. 16-30). Bozeman, Montana: The Montana Council of Teachers of Mathematics.
- Allinger, G. & Lundin, M. A. (1998). *SIMMS Integrated Mathematics and the Classroom Environment*. In J. Lott and G. Allinger (Ed.) The SIMMS Project Monograph 5: The Classroom. (pp. 31-48). Bozeman, Montana: The Montana Council of Teachers of Mathematics.
- Allinger, G. & Lundin, M. A. (1998). Teacher Change Through Summer Institutes. In J. Lott and G. Allinger (Ed.) The SIMMS Project Monograph 5: The Classroom. (pp. 49-60). Bozeman, Montana: The Montana Council of Teachers of Mathematics.
- Allinger, G., Lundin, M. A, and Dalton, K. (1998). *Pilot Studies from El Paso and Cincinnati*. In J. Lott and G. Allinger (Ed.) The SIMMS Project Monograph 5: The Classroom. (pp. 61-74). Bozeman, Montana: The Montana Council of Teachers of Mathematics.

Recent Presentations

- Reorganizing with Dignity: A Personal TMP Mapping Adventure, Transition Math Project Summer Workshop, Leavenworth, WA, August 7, 2008
- Mathematical Decisions Glider Pilots Make to Fly Long Distances, National Meeting of the Mathematical Association of America, Madison, July 27-31, 2008
- Using Concept Maps to Teach for Deep Understanding, Cornerstone Conference, CWU, Spring 2008.
- Mathematics Reform: One State's Perilous Journey, The University of Montana Seminar Series, April 6, 2007.
- Mathematics Reform: One State's Perilous Journey, Montana State University Mathematics Seminar Series, March 1, 2007.
- College in the High Schools Programs: What Have We Learned? April 24, 2004, Philadelphia, PA, National Council of Teachers of Mathematics, national conference.

- The Senior Year of High School Mathematics in Washington State; Meeting for State Registrars and Admissions Directors, March 2004, CWU, Washington State.
- Assessment: Standing Up For Your Program (Moderator); October 25, 2003, Syracuse, NY, National Alliance of Concurrent Enrollment Partnerships, national conference.
- On the Assessment Horizon: College in the High School, SESSION No. 41, Program Area: Institutional Effectiveness, at the Washington Assessment in Higher Education Conference, Spokane, May 2003.
- National Association for Concurrent Enrollment Partnerships, Moderator, Assessment Session, Duluth, October 2002.
- What Happens to (Integrated) Mathematics Students When College Hits Them? Presented as a research sectional at the annual national meeting of the National Council for Teachers of Mathematics in Las Vegas, April 22, 2002.

Grant Proposals Written

- Transition Mathematics Achievement Partnership, NSF, \$4 Million over 5 years, pending.
- Math Advance Project, NSF, \$4.3 Million over 5 years, not funded
- Mathematics, Action Research, Culture, and Science (MARCS), submission 2, NSF, \$4,454,169, not funded.
- Cornerstone Calculus Assessment Project, National Council of Teachers of Mathematics, \$8000, not funded.
- Thayer Grant Proposal entitled, "The Cornerstone Program: Toward Valid, Reliable, and Efficient Assessment," \$2000, not funded.
- NSF Proposal entitled, "The Mathematics, Research, Culture, Science (MARCS) Project." submission \$863,920 renewable for five years, not funded

Recent Workshops, Conferences, and Seminars Attended

- Transition Math Project Summer Workshop, August 7, 2008, presenter
- MAA Summer Conference, Madison, July 27-31, 2008, presenter
- Math Placement Summit Meeting, Seattle, November 16, 2005
- Western Regional Council of Teachers of Mathematics, November 11-13, 2005
- Transition Math Project, Editor Meeting, December 13, 2004, Seattle
- Transition Math Project Conference, August 23-28, 2004

- Transition Math Project, Organizing Meeting, June 29 2004, Olympia
- Transition Math Project, Standards Writing Meeting, August 23-28, 2004, Leavenworth, WA
- National Council of Teachers of Mathematics, April 21-24, 2004, Presenter, Philadelphia, PA
- The Senior Year of High School Mathematics in Washington State; Meeting for State Registrars and Admissions Directors, March 2004, CWU, Washington State.
- Washington State Teachers of Teachers of Mathematics February 2004, Leavenworth, WA
- National Alliance for Concurrent Enrollment Partnerships, October 25, 2003, Syracuse, NY
- Washington Council of Teachers of Teachers of Mathematics, February 2003
- Washington Assessment in Higher Education Conference, Presenter, March 2003
- National Council of Teachers of Mathematics, April 2003.
- National Association of Concurrent Enrollment Partnerships, Moderator, October 2002.
- Washington Council of Teachers of Teachers of Mathematics, February 2002.
- Hispanic Mathematics Education Symposium at the National Council of Teachers of Mathematics Conference, El Paso, April 2003.
- Using Blackboard as a Teaching Tool (two workshops), Fall 2001.

Students Mentored

- Committee Chair and Master's Degree Thesis Advisor (10 Students)
- Doctoral Degree Statistics Advisor (2 students)
- Master's Degree Statistics Advisor (8 Students)
- Undergraduate Advisor (38 Students)
- Sponsored Alumni Scholarship (2 awardees—\$1000 award presented to awardee)
- Undergraduate Research Mentor (SOURCE) (12 students)

Committees and Service

- Director MAT Graduate Program
- Transition Mathematics Program Standards Development Team
- State Mathematics Placement Test Committee
- Four Successful Mathematics Search Committees, Chair of one
- Math Olympiad, Grading Coordinator, 2002-Present
- Lake Chelan School District Meeting Representing the Mathematics Department for the Cornerstone Project (2002)
- K-5 and Middle School Math Institute (two day-long meetings during the year) 2002
- Math Olympiad, Grading Coordinator, May, 2002. Three successful search committees, Co-chair of math-ed Search (Spring and Summer 2004)
- Math Education Revision Committee (On-going; 5 hours/month)
- Calculus Revision Committee (On-going, 2 hours/month)
- Center for Teaching and Learning (Assessment Committee 2001-2003)

- CWU Scholarship Committee (2001-2003)

Courses Taught at Central Washington University

2008-2009

Math 164	Foundations in Arithmetic
Math 265	Linear Algebra I (2 sections)
Math 299E	Orientation Seminar
Math 355	College Geometry I
Math 360	Algebraic Structures I
Math 455	College Geometry II
Math 360	Algebraic Structures II

2007-2008

Math 164	Foundations of Arithmetic (2 sections)
Math 170	Intuitive Calculus
Math 273	Calculus IV
Math 299E	Orientation Seminar
Math 360	Abstract Structures I
Math 361	Abstract Structures II
Math 410A	Advanced Statistical Methods I
Math 410B	Advanced Statistical Methods II
Math 526	Research Methods in Mathematics Education

2006-2007

Math 164	Foundations of Arithmetic
Math 272	Calculus IV
Math 499E	Capstone
Math 355	College Geometry I
Math 455	College Geometry II
Math 360	Abstract Structures I
Math 361	Abstract Structures II

2005-2006

Math 130	Finite Mathematics
Math 273	Calculus IV
Math 101	Math in the Modern World
Math 355	Geometry I
Math 455	Geometry II
Math 164	Foundations of Arithmetic
Math 499E	Capstone
Math 272	Calculus III

2004-2005

Math 411A	Statistical Methods and Concepts
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Math 164	Foundations of Arithmetic
Math 173	Calculus II
Math 455	College Geometry II
Math 332	Discrete Models
Math 172	Calculus I
Math 272	Calculus III
Math 265	Linear Algebra
EDF 504	Advanced Educational Statistics
Math 572	Elementary Real Analysis

2003-2004

Math 164	Foundations of Arithmetic (Two classes)
Math 172.1	Calculus I
Math 255	Intuitive Geometry
Math 455	Principles of Geometry
Math 550	Transformational Geometry
EDF 504	Advanced Educational Statistics

2002-2003

Math 163.1	Pre-calculus I (Double Load Course, 80 Students)
Math 163.2	Pre-calculus II
Math 164	Foundations of Arithmetic (One Fall Class and One Spring Class)
Math 172.1	Calculus I
Math 255*	Intuitive Geometry {Interactive Video; two sites: Lynnwood (Career Switchers) and Ellensburg}
Math 566	Matrices and Their Applications
EDF 504	Advanced Educational Statistics

2001-2002

Math 320	History of Mathematics
Math 163.1	Pre-calculus I (One Fall Class and One Spring Class)
Math 164	Foundations of Arithmetic (3 sections)
Math 311	Statistical Concepts and Methods
Math 320	History of Mathematics
Math 424	Technology in the Mathematics Classroom
Math 554	Fractal Geometry
EDF 504	Advanced Educational Statistics