

Jeffrey C. Kallenbach

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EDUCATION

- PhD, Mathematics
Northern Illinois University, 2006
Advisor: Bernard Harris
Dissertation: *Spectral Concentration In The Sturm-Liouville Differential Equation*
- Master Of Science, Mathematics
Northern Illinois University, 1982
- Bachelor Of Science, Mathematics
University Of Illinois at Urbana/Champaign, 1978

ASSOCIATION MEMBERSHIPS

- Pi Mu Epsilon, National Math Honor Society
- American Mathematical Society
- Mathematical Association Of America
- National Council Of Teachers Of Mathematics

TEACHING EXPERIENCE

- **2006 – Present: Siena Heights University, Adrian, MI**
 - Undergraduate service (LAS Math requirement) courses taught:
 - Quantitative Reasoning, Statistics & Society, Math For The Working Nurse, Making Sense Of Data, Statistical Reasoning with Applications (for sports management)
 - Undergraduate courses taught to math and science majors (Traditional Classroom):
 - Calculus I, Calculus II, Multivariable Calculus, Differential Equations, Geometry, Mathematical Modeling, Linear Algebra, Numerical Analysis, Abstract Algebra, Real Analysis
 - Undergraduate courses taught to math and science majors (Independent and Directed Study)
 - Omnibus Review Of Mathematics, Abstract Algebra II, Actuarial Exam Review Course, Differential Equations II.
 - Graduate Courses in Mathematics Education (blended and traditional)

- Teaching Calculus With Technology, Teaching Multivariable Calculus With Technology, Discrete Mathematics In The Classroom, Linear Algebra In The Classroom, Abstract Algebra In The Classroom
- **2014: Intel Teacher Education Instructor**
- **2004 – 2006: Adjunct Professor, Benedictine University, Lemont, IL**
 - Undergraduate courses taught:
 - College Algebra, Quantitative Reasoning
- **2004 – 2006: Adjunct Professor, North Central College, Naperville, IL**
 - Undergraduate courses taught:
 - College Algebra, Pre-Calculus, Integrated Calculus
- **1980-1983, 2005 – 2006: Teaching Assistant/Instructor, Northern Illinois University**
 - Undergraduate Courses taught:
 - College Algebra, Business Calculus, Calculus I, Calculus II

NEW COURSES DEVELOPED (9)

- **Undergraduate**
 - Math For The Working Nurse (proficiency requirement for the RN-to-BSN)
 - Applied Calculus I (Intro to engineering math for the advanced HS scholar)
 - Statistical Reasoning with Applications (with Tim Husband – satisfies LAS statistics requirement for BAM, SMG, and Social & Behavioral Science majors)
 - Discrete Mathematics with Number Theory
- **Graduate (Mathematics Education)**
 - Teaching Calculus With Technology
 - Teaching Multivariable Calculus With Technology
 - Discrete Mathematics In The Classroom
 - Linear Algebra In The Classroom
 - Abstract Algebra In The Classroom

SENIOR PROJECTS SUPERVISED

- **Modelling 3-body Planetary Motion Using Maple**
- **Total Offense – A New Statistic to Measure Baseball Players Contributions**
- **Computer Analysis Of Forensic Data In Law Enforcement**
- **Modelling the Optimal Shape of a Projectile Using Maple**
- **A Linear Economic Model Using Maple**
- **Simple Extensions to the Basic Projectile Motion Equation**

COMMITTEE MEMBERSHIPS

- **New Faculty Committee**
 - 2006-2007
- **Committee On Liberal Arts**
 - 2007-2008
- **TFA Executive Committee**
 - 2008-2013 (Chairman 2009-2011)
- **Teacher Education Committee**
 - 2012-Present
- **Rank & Promotion**
 - 2013-2014
- **Academic Standards Committee**
 - 2015 - Present

EXTRACURRICULAR/ADMINISTRATIVE

- **Program Coordinator (Department Chairman), Mathematics** – 2011-Present
- **Advisor, Pi Mu Epsilon (National Math Honor Society)/Math Club** – 2007-2009
- **Advisor, Student Senate** – 2008-2010
- **Program Chairman, 2012 Michigan Undergraduate Mathematics Conference**
- **Program Chairman, 2013 Michigan Undergraduate Mathematics Conference**

PUBLICATIONS AND CONFERENCE PRESENTATIONS

- **Beanbags and Basketballs - Simple Experiments for the Introductory Statistics Classroom** – 2017 Joint Meetings of the AMS and MAA
- **A Year With Free Textbooks** - 2014 Michigan Section Meeting of Mathematical Association Of America
- **A Simple Differential Equations Example For The TI NSpire** – 2014 Joint Meetings of the AMS and MAA
- **Spectral Concentration In The Sturm-Liouville Differential Equation** – Published in the Journal Of Differential Equations, 2012
- **Maple Computer Algebra System Through The Undergraduate Curriculum** – 2010 Michigan Section Meeting of Mathematical Association Of America
- **(In preparation) Spectral Concentration In Singular Sturm-Liouville Equation**

CONFERENCES ATTENDED

- 2017 Joint Meetings – Mathematical Assn Of America/American Mathematical Society
- 2017 Rose Hulman Institute of Technology Undergraduate Math Research Conference
- 2016 Detroit Area Council Of Teachers Of Mathematics
- 2016 Rose Hulman Institute of Technology Undergraduate Math Research Conference
- 2016 Joint Meetings – Mathematical Assn Of America/American Mathematical Society
- 2014 Mathematical Assn Of America Michigan Section
- 2014 Joint Meetings – Mathematical Assn Of America/American Mathematical Society
- 2013 Joint Meetings – Mathematical Assn Of America/American Mathematical Society
- 2013 Meeting – Mathematical Assn Of America Michigan Section
- 2013 Michigan Undergraduate Mathematics Conference
- 2012 Michigan Undergraduate Mathematics Conference
- 2012 Detroit Area Council Of Teachers Of Mathematics
- 2011 Detroit Area Council Of Teachers Of Mathematics
- 2010 Detroit Area Council Of Teachers Of Mathematics

OTHER PROFESSIONAL DEVELOPMENT

- Supervisor Training August 2014
- Winner of Tsuji-Stimson Research Award, 2011