

# Steven B. Zides

## Work

Physics Department  
Wofford College  
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## Education

M.S. Mathematics, University of Tennessee, Knoxville, TN., 1998  
M.S. Physics, University of Tennessee, Knoxville, TN., 1994  
B.A. Physics, Cornell University, Ithaca, NY., 1988

## Professional Experience

### 1999 - Present , Physics Faculty, Wofford College

Courses I have taught at Wofford include: Astronomy, Conceptual Physics, General Physics I/II, Physics for Science and Engineering I/II, Modern Physics, Optics, Mechanics, Electrodynamics, Appreciation of Mathematics, Vector Calculus, Business Calculus and Mathematical Methods for Physics. In the past, I have been heavily involved in Wofford's freshman interdisciplinary learning communities. In this regard, I have co taught "Cosmology and Ultimate Questions" with the Philosophy Department, "Science and Science Fiction" with the English Department, "Theatre Physics" with the Theater Department, and "A World on the Edge" with the Philosophy Department.

### 1998 - 1999, Mathematics Adjunct Faculty, University of Tennessee

While at UT, I taught Mathematics for Elementary School Teachers, College Algebra, Business Calculus, Engineering Pre-calculus, and Engineering Calculus.

### 1993-1994, Sylvan Learning Center, Knoxville Tennessee

While at Sylvan, I assisted K - 12 students with mathematics and science skills.

### 1988 - 1991, Secondary School Teacher, Webb School of Knoxville

While at Webb, I taught Algebra II, Geometry, Physics, and AP Physics (C - Mechanics).

## Grants

### 2002, NSF (DUE 0126788) "Seeing the Big Picture: Linking the Sciences and the Humanities"

I was one of the Co - PIs on a \$199,952 grant from the National Science Foundation. The grant funded the creation of eight freshman learning communities that linked introductory science (for non-scientists) to introductory humanities courses.

## **Recent Conferences and Invited Presentations**

### August 2014, MAA Conference, Portland, OR

Professor Zides presented a talk on using experiential learning in a Vector Calculus course.

### February 2014, CAA Conference, Chicago, IL

Professor Zides presented a talk on using Art History in a Conceptual Physics course.

### August 2012, MAA Conference, Madison, WI

Professor Zides presented a talk on using sculpture in a Math Appreciation course.

### November 2011, AACU Conference, Providence, RI

Professor Zides presented a talk on using creative assignments in a learning community setting.

### September 2011, SLSA Conference, Kitchener, Ontario, Canada

Professor Zides presented a talk on the pros and cons of the “Two Cultures” physics course.

### August 2010, MAA Conference, Pittsburg, PA

Professor Zides presented a talk on “Equation” as metaphor in a Math Appreciation course.

### August 2010, SENCER Conference, Asheville, NC

Professor Zides presented poster on the “World on the Edge”, Wofford learning community.

## **Professional Organizations**

College Art Association (2013 -- Present)  
American Mathematical Society (2006 -- 2009)  
Society of Literature and Science (2006 -- Present)  
Association of Integrated Studies (2004 -- 2006)  
American Association of Physics Teachers (2009 -- 2013)

## **College Service**

Academic Integrity Committee (2014 -- Present)  
College Facilities Committee (2013 -- 2014)  
President’s Advisory Council (2010 -- 2013)  
Cultural Affairs Committee (2003 -- 2006)  
Disabilities Committee (2003)  
Judicial Appeals Board (2000 -- 2003)  
Freshman Advising (2000 -- Present)

## **Teaching Interests**

Interdisciplinary Physics Education  
Collaborative Learning  
Experiential Learning