

**Steven J Toce – Advanced Calculus Faculty**  
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### **Introduction**

**University Level** Calculus teaching experience (thru Differential Equations)

**Calculus III:** Lecture1 Big Picture (Gradient, Green, Stokes, Gauss) <http://youtu.be/FVICQhAtPdY>

**Calculus III:** Lecture2 Verifying Fundamental Theorem <http://youtube.com/watch?v=0-mZV2dqWLQ>

**Calculus III:** Lecture3 Nature of Fundamental Theorems <http://www.youtube.com/watch?v=PwPpFUAJChI>

25+ years Engineering Consultant (fiber optic based technologies)

### **Teaching/Learning Experiences**

Private Tutor, **Calculus I/II/III** 2015 - present

Audited **Calculus III courses** 2014 - present  
MIT, Princeton, DMACC, Khan Academy

Academic Support Center Volunteer 2014 - 2015  
Middlesex Community College  
Manchester Community College  
**Calculus III** Study Group Coordinator

Manchester Community College 2001 - 2014  
**Calculus I, Calculus II**  
Linear Algebra  
Introductory/Intermediate Algebra  
Technical Math I, II

Des Moines Area Community College, Iowa 2010 - 2010  
Algebra  
**Calculus III** Teaching Assistant

**University of Connecticut** 2002 - 2004  
**Differential Equations**  
**Calculus I**  
**Calculus** for Business & Economics  
Discrete/Finite Mathematics

Naugatuck Valley Community College 2001 - 2002  
Introductory Algebra  
Intermediate Algebra

Capital Community College 2000 - 2001  
Developmental Algebra

Middlesex Community College 1988 - 1989  
Basic, COBOL, Fortran

### **Engineering Experience/Technology**

The Travelers Insurance Company and Citigroup 1976-2000  
Engineering Consultant

Asynchronous Transfer Mode Expert (fiber optics)  
On research team with IBM, Research Triangle Park, NC (Snapshot Project)

Design national super high-speed computer networks  
Project Supervisor for Network Installation (100+ sites)

Probability and Statistical techniques  
SAS (Statistical Software)  
Cobol (Business Software)

## **Education**

MS / Applied Mathematics and Statistics 1972-1973  
State University of New York at Stony Brook

BA / Mathematics 1968-1971  
Central Connecticut State University

## **Publications**

Token Ring Switches – Double Indemnity  
Data Communications, June 1996, pages 35-36

The Guts of ATM (Asynchronous Transfer Mode)  
Network World, July 10, 1995, pages 39-43

IMS Transaction Performance Measurement  
International CMG Conference, 1982, pages 20-32

Multivariable Calculus Video Tutorials <http://www.papaTsoftware.com/mvc>

## **Other Accomplishments**

While at Citigroup, I was on the technology board based in Silicon Valley which helped create a new fiber optic hardware platform combining Token Ring, Ethernet and Asynchronous Transfer Mode technologies.

While at Travelers I was on the small team of engineers that created the first in private industry real time connection between dissimilar mainframe computers - IBM System 360 and the Univac 494.

At Travelers, we created the first in private industry insurance claim adjudication and printing of checks in real time system.

**Ranked #1** Most Popular Windows Software Engineer (self-taught), CNET/Children's Education.

Member of American Radio Relay League with General License.

Passed Actuarial exams 1 and 2 (same day, 4 hours).

Former student of classical piano, Hartt School of Music, at 12 years old.

Former Real Estate Broker (took a college law course, Legal *Documents*)

## **References upon request**