

# Barry W. Woods

## Home Address:

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## Work Address:

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## Education:

Undergraduate Study (September 1970 to May 1973)

B.S. SUNY @ Plattsburgh, NY 12901  
May 1973, Graduated Magna Cum Laude (3.76)  
Major: Secondary Mathematics Education

Graduate Study (July 1973 to July 1974)

M.S. Ed. SUNY @ Plattsburgh, NY 12901  
August 1974, Graduated Suma Cum Laude (4.00)  
Thesis title "A Demonstration of the Galois Correspondence"  
Major: Mathematics Education

Sabbatical (September 1994 to May 1995)

Penn State University and Minitab, State College, PA 16801  
Title "The Integration of Computers in the Teaching of Statistics"

Sabbatical #2 (August 2006 to December 2006)

Unity College and College of the Marshall Islands, Majuro, MH 96960  
Title "Field Guide to Statistics Using *Excel*"

## Teaching:

Full Professor, Unity College, 1989 - present

Teaching mathematics and computer science courses including Statistics I and II, Biometry, Calculus I and II, Algebra & Trigonometry, Intro. to Computers (IBM), Computer Software Applications, and Spreadsheets  
Introduced computer instruction and the first Computer Lab

Associate Professor, Unity College, 1982 - 1989

Teaching mathematics courses including Statistics I and II, Calculus I and II, Algebra and Trigonometry, Intermediate Algebra, and various independent studies including Axiomatic Geometry, Abstract Algebra, Linear Algebra, and Calculus III

Assistant Professor, Unity College, 1978 - 1982

Teaching mathematics courses including Calculus I, Algebra and Trigonometry, Intermediate Algebra, Elementary Algebra, and Math Lab (Arithmetic)

Professional Staff (Developmental Mathematics Specialist), Unity College, 1976 - 1978

Designing, writing, and teaching developmental (remedial) mathematics courses including Math Lab, Practical Math, and Calculus

Project UPSTEP (Undergraduate Pre-Service Teacher Education), SUNY Plattsburgh, 1971 - 1974

Teaching junior high school, high school, and freshman college mathematics courses

### Administration:

Founding Faculty Program Administrator, Unity College, Jan 2003 - Aug 2004  
Responsible for the transition from two academic divisions to one faculty, along with budget, scheduling, and hiring of adjunct faculty

Founding Chair, Division of Liberal Studies, Unity College, Jul 91 - Jun 93  
Responsible for the transition from five academic centers to two academic divisions, along with budget, scheduling, and hiring of adjunct faculty

Chair, Fine Arts Center, Unity College, Jan 89 - Jun 91  
Responsible for the operation of the center including the Art Gallery, budget, scheduling, and hiring of part-time artists

Chair, Environmental Science Center, Unity College, Sep 85 - Aug 87  
Responsible for the operation of the center including a first time external review of our curriculum and degree programs, along with budget, scheduling, and hiring of part-time faculty

#### Committees chaired

Wildlife Faculty Search - responsible for hiring two wildlife faculty (2011)

ARC (Academic Regulations Committee) - responsible for the continuing review of the entire academic program and curriculum

FAC (Faculty Academic Committee) - same as above, just an older committee name

FPPC (Faculty Priorities & Personnel Committee) - responsible for the allocation of resources within the academic program and developed the first multi-year salary schedule for faculty

#### Committee Service

Search Committees - responsible for hiring numerous faculty, administration and staff members (most recently, Provost/VPAA and Dean of Enrollment, 2013)

FEC (Faculty Evaluation Committee) - AY2010-13, and 2004-08

NEASC - Standard Six - Students (2012)

NEASC - Standard Five - Faculty (2003)

NEASC - coordinated data and statistics for accreditation purposes including Show Cause (1989), New Evidence (1990-91) Self-Study (1991-92) and Visitation (1992-93) leading to full accreditation

Admissions - including Unity College Days, Open Houses, Previews, class visits and Enrollment Management

Athletic Advisory - Faculty Athletic Representative

Faculty Moderator - Faculty ombudsman

Board of Trustees - Faculty Representative 1990 - 1993, and 1997-2001

## Awards and Conference Presentations:

Martin A. Rosinski Award for Excellence in Teaching - Unity College's first recipient, May 1989

Unity Area Rotary Club Vocational Service Award - Excellence in Teaching Mathematics at Unity College, June 2004

AP Statistics Exam Reader, June 2012 and 2013, Kansas City, MO; June 2010 and 2011, Daytona Beach, FL; June 2008 and 2009, Louisville, KY. Evaluate and score the free-response sections of the AP Statistics exams.

New England Mathematical Association of Two-Year Colleges (NEMATYC), April 2013, Danvers, MA. Presented a paper entitled "The Anderson-Darling Normality Test Using Excel." This was a demonstration of Excel to construct the Anderson-Darling Normality Test.

NEMATYC, March 2012, Concord, NH. Presented a paper entitled "Normal Probability Plots Using Excel." This was a demonstration of Excel to construct and then graph Normal Probability Plots using the equation  $p(i) = (i - .375)/(n + .25)$ .

American Mathematical Association of Two-Year Colleges (AMATYC), November 2010, Boston, MA. Presented a paper entitled "Nonparametric Statistics Using Excel." This was a demonstration of nonparametric statistics using my XLNPCD.

NEMATYC, April 2009, Manchester, NH. Presented a paper entitled "JMP: A Statistics Demonstration." This was a demonstration of both descriptive and inferential statistics using the software package JMP by SAS.

NEMATYC, April 2008, Springfield, MA. Presented a paper entitled "One Sample Inferential Statistics Using Excel." This was a demonstration of inferential statistics using my XLCD written during my sabbatical from FA-06.

NEMATYC, April 2007, Fall River, MA. Presented a paper entitled "Statistics Using Excel." This was a demonstration of descriptive statistics including Box Plots and Normality tests using my XLCD written during my sabbatical from FA-06.

NEMATYC, April 2005, Boston, MA. Presented a paper entitled "**EXCEL**lent Statistics - Using Excel and Fisheries Biology in the Teaching of Statistics." This was a demonstration of the collaboration between a fisheries professor, Dave Potter, and statistics professor, me.

NEMATYC, April 2002, Danvers, MA. Presented a paper entitled "Service Learning, Fisheries Biology and Technology in the Teaching of Statistics."

NEMATYC, April 2000, Fall River, MA. Presented a paper entitled "Teaching Statistics With Technology."

NEMATYC, April 1997, Brockton, MA. Presented a paper entitled "Minitab: A Statistics Workshop."

Unity College Science and Mathematics Academy, Summer 1994, Unity, ME. Taught area math and science teachers and college professors how to do statistics using the TI-82 graphing calculator.

## Publications:

McDonald, K. H., Ongley, L., Woods, B., and T. Lee Pinard, 2012, The Pinch of Salt: Monitoring Analysis and Winter Maintenance Strategies within the Long Creek Watershed, Proceedings of the Fifteenth Specialty Conference on Cold Regions Engineering, Quebec, Canada, August 19-22, 2012.

Ongley, L.K., Kern, C.S., and Woods, B., 2008. An Inexpensive Mercury Thermometer Alternative for Use in Older Melting Point Apparatuses. J. Chem. Educ., 2008, 85 (9), p 1263. Publication Date (Web): September 1, 2008 (Article). DOI: 10.1021/ed085p1263

In preparation:

Ongley, et al. (including Adam Douin UC'11 and Timothy Godaire UC'12) The Digital Arsenator: An improved protocol for field use.

Statistical consultant for other papers as well.

## Other Interests:

Association for Institutional Research - Northern Marianas College, 2009  
Operation Game Thief - Maine Department Inland Fisheries & Wildlife Warden Service; Board of Directors 2002 - 2007; Chair of the Scholarship Committee  
Audubon Expedition Institute - Fleet Maintenance Coordinator, 2001 - 2002  
Royal Coach Lines - Computer Consultant and Bus Driver, 1993 - present and  
White Plains & Pleasantville Bus Lines - Bus Driver, 1972 - 1993 (CDL-Class B with Passenger Endorsement and Hazardous Material Endorsement)  
Unity Barn Raisers - Community Development  
Major League Baseball