

Martha M. Day, Ed.D.

Curriculum Vitae

Objective: *“To improve education through visionary leadership, scholarship and teaching”*

Education:

Tennessee State University, Doctor of Education Major Area; Education Administration, August 1998
Dissertation: *A study of the current status of block scheduling programs employed in Tennessee public high schools*
Austin Peay State University, Master of Arts in Education, Curriculum and Instruction, December 1993
Tennessee Teacher Licensure: Chemistry, Biology, Physics, General Science, Earth and Space Science, K-12
Administrator and Career Ladder I
Austin Peay State University, Bachelor of Science, Chemistry and Agriculture, August 1990

Professional Experience:

Assistant Professor, Science Education, Western Kentucky University, Bowling Green, Kentucky, 8/09-present
EDU 489 Student Teaching Seminar
MGE 385 Middle Grades Teaching Strategies
ELED 406 Teaching Science in Elementary School

Assistant Professor, Chemistry & Science Education, Utah Valley University, Orem, Utah, 8/08-7/09
CHEM 1110 Elementary Chemistry for the Health Sciences
CHEM 1120 Elementary Organic and Biochemistry
CHEM, BIOL, GEOL, PHY 4200 Teaching Methods in Science
Supervision of Science Student Teachers/Interns

Director of Designated Qualified Persons & Animal Welfare, National Walking Horse Association, Lexington, Kentucky, 11/06-present

Supervise and train Designated Qualified Persons
Work as a liaison among horse industry organizations and the United States Department of Agriculture

Adjunct Professor, Austin Peay State University, Clarksville, Tennessee, 1/00-5/08
AGRI 3350 Equine Production and Management AGRI 4920 Equine Evaluation and Judging
AGRI 492C Management of the Companion Animal AGRI 492I Ethics of Animal Use
AGRI 4020 Agriculture Seminar

Teacher Professional Development Coordinator, Wildfire Prevention Program, 8/05-Present

Implement teacher training workshops throughout the state of Tennessee for the Tennessee Department of Agriculture, Division of Forestry. Teaching KWL, technology, and inquiry learning aligned with state curriculum standards. Visit: <http://www.itm-info.com/>

Teacher, Metropolitan Nashville Davidson County Schools, Nashville, Tennessee

Whites Creek Comprehensive High School, 8/97-5/08

Science Department Chairperson, Teaching Chemistry, Human Anatomy, Sponsored the school newspaper and the girls bowling team, **2004 Nashville Section-American Chemical Society Teacher of the Year, Teacher of the Year 1999-2000**

Interim Assistant Principal, 12th grade and curriculum, 2004-2005, Conducted teacher evaluations, compiled the school improvement plan, organized senior activities, graduation, supervised curriculum issues, special situation drills and student discipline

Science Technology Education Partnership Coordinator, Vanderbilt University, 5/01-6/02

Developed curricula appropriate for videoconference lessons presented to 5-12 grade students

Directed science and technology workshops for teachers of grades 5-12

Supervised graduate students and teachers participating in grant projects.

Administered and managed the Science Education Partnerships Award grant provisions at VUMC

Maplewood Comprehensive High School, 8/94-5/97

Taught Chemistry and Physical Science, **21st Century Technology Classroom Teacher**

Physical Sciences Staff Writer, Vision Learning, Inc. at City University of New York, 2/02-12/02

Designed web-based teaching lessons for freshman college-level, non-science major students Lessons integrate text, simulations, interactive exercises and external links for various physical science topics Visit: <http://www.visionlearning.com/>

Counselor-Education Specialist, U.S. Department of Education at Austin Peay State University, Clarksville, Tennessee, 2/94-8/94

Provided career, financial aid and educational information to post-secondary students

Coordinated an annual education exposition with over 50 post-secondary institutions attending

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Teacher, Corrections Corporations of America, Nashville, Tennessee, 8/93-2/94

Taught Adult Basic Education and GED classes to prison inmates

Teacher, Academy for Academic Excellence, Clarksville, Tennessee, 8/92-5/93

Taught Special Needs Middle and High School General and Physical Science on an Adjunct Basis

Instructor, High School Upward Bound at Austin Peay State University, Clarksville, Tennessee, 5/93-5/95

Taught and counseled students enrolled in the federally subsidized upward bound program

Tutor/Counselor, Student Support Services at Austin Peay State University, Clarksville, TN, 9/91-6/93

Advised students in developing effective study habits and listening skills vital college success

Test Administrator, Austin Peay State University Institutional Effectiveness, Clarksville, TN 8/91-8/93

Administered and proctored ACT-Comp college entrance and exit examinations

Environmental Education Laboratory Manager, APSU Farm Clarksville, TN 8/92-12/93

Monitored teaching facilities and maintained the farm buildings and equipment

Publications:

Day, M. & McBroom, S. **Inquiry Based Investigations of Genetically Modified Foods**, Submitted to: Science Scope, Spring 2009.

Day, M. (2006). **Cancer Biology Legacy Cycle Teaching Module**, Vanderbilt University Biomedical Engineering Research Experiences For Teachers, 28 pp.

Day, M. (2004). **The Horse Protection Act**, The Horse, article #5099.

Day, M. (2003). **The World of the DQP**, The Gaited Horse, 6(4), 45-49.

Day, M. & McBroom, S. (2003). **Teaching in the "ER" (Emergency Classroom)**, Emergency Lesson Plan Strategies for Science Teachers of grades 5-12.

Day, M. & McBroom, S. (2001). **Renaissance Teacher Work Sample: Effective Pre-Service Teacher Preparation**, 4-week Pilot Unit Plan Prepared for Middle Tennessee State University.

Day, M. (1998). **A Study of the Current Status of Block Scheduling Programs Employed in Tennessee Public High Schools**, Dissertation Research at Tennessee State University

Ivanov, C. & Day, M. (1997). **Charmed Particles: Newsletter of the Eisenhower Math/Science Consortium at AEL**, 5(1), 6-7.

Day, M. & Madden, P. (1997). **"Gangs and Youth Violence Raise Questions for School Administrators"**, Tennessee Educational Leadership, 24(1), 40-43.

Day, M., Ivanov, C. & Binkley, S. (1996). **"Tackling Block Scheduling: How to Make the Most of Longer Classes"**, Excerpt Printed in Block Scheduling: Teaching Strategies for the Restructured School Day. National Science Teachers Association, 1st ed. Arlington, VA, 7-9.

Day, M., Ivanov, C. & Binkley, S. (1996) **"Tackling Block Scheduling: How to Make the Most of Longer Classes"**, The Science Teacher, 63(6), 25-27.

Software:

Shepherd, V., Day, M., McBroom, S. (2000). **Genetics: Spiraling Into the Future**, An Interactive Genetics CD for Middle and High School Students, Vanderbilt University Medical Center.

Shepherd, V., Metzgar, V., McBroom, S., Day, M.M., et.al. (1999). **Brainstorm**, An Interactive Neuroscience CD for Middle and High School Students, Vanderbilt University Medical Center

Grants:

National Park Foundation, Parks As Resources for Knowledge Teachers Program Toyota USA Foundation, **"Pre-Service Teacher Training at Capitol Reef Field Station"**, H. Trong, R. VanBuren & M. Day (Principal Investigators), Utah Valley University, (not funded-Funding Requested \$90,000, December 2008)

National Institutes of Health Grant, **"Biomedical Research Experiences for Teachers"**, S. Klein (Principal Investigator), Teacher Participant in Medical Imaging, Vanderbilt University, June/July 2006

National Institutes of Health Grant, **"Pharmacology Education Partnership"**, R. Schwartz-Bloom (Principal Investigator), Teacher Participant in Field Testing Curriculum, Duke University, June 2003

National Institutes of Health Grant, **"Developing Interactive Technology for Teaching the Life Sciences (Developmental Biology)"**, V. Shepherd (Principal Investigator), M. Day & S. McBroom, Vanderbilt University Medical Center (funded for \$40,000, December 2000)

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Dwight D. Eisenhower Mathematics and Science Education Act, **“Developing Interactive Technology for Teaching the Life Sciences (Genetics)”**, V. Shepherd (Principal Investigator), M. Day & K. Lee, Vanderbilt University Medical Center (funded for \$40,000, December 1999)

Dwight D. Eisenhower Mathematics and Science Education Act, **“Developing Interactive Technology for Teaching the Life Sciences (Neuroscience)”**, V. Shepherd (Principal Investigator), V. Metzgar, S. McBroom & M. Day, Vanderbilt University Medical Center (funded for \$24,000, December 1998)

Dwight D. Eisenhower Mathematics and Science Education Act, **“Training in Operation Chemistry: A Training Initiative for 4th-8th Grade Science Teachers”**, C. Ivanov (PI), R. McDow, M. Day & L. Hodge, Nashville State Technical Institute (funded for \$20,000, November 1997)

Presentations:

Engaging Learners In Inquiry-Modeling and Teaching the Process of Science, USTA Convention, South Jordan, UT, Spring 2009

Tennessee Wildfire Prevention, Short Course, TSTA Convention, Nashville, TN, Fall 2007

Tennessee Wildfire Prevention, Short Course, TSTA Convention, Nashville, TN, Fall 2006

Teaching in the “ER” (Emergency Room), Short Course, NSTA National Convention, Philadelphia, PA, Spring 2003

Genetics: Spiraling Into the Future, NSTA Regional Convention, Memphis, TN, Fall 2001

Interactive Technology in the Science Classroom, TSTA Convention, Nashville, TN, Fall 2000

Content Area Reading in the Science Classroom, Metropolitan Nashville Schools, TN, Summer 1999

Teaching in the ER (Emergency Room), Metropolitan Nashville Schools, Nashville, TN, Spring 1999

Operation Chemistry Workshop, TSTA Convention, Nashville, TN, Fall 1998

Games and Projects in Chemistry, Physics and Physical Science, Short Course, NSTA Regional, Birmingham, AL, Fall 1998, Nashville, TN, Fall 1997, NSTA National New Orleans, LA, Spring 1997

Using Newton’s Apple in the Science Classroom, NSTA Regional Convention, Nashville, TN, Fall 1997

Operation Chemistry Workshop, Metropolitan Nashville Schools, Nashville, TN Summer 1997

Teaching Science Across the Curriculum: Linking the New with the Known, NSTA National Convention, New Orleans, LA, Spring 1997

Block Scheduling: Strategies for Success!, NSTA National Convention, St. Louis, MO, Spring 1996

“Enhancing Science Achievement Through the Use of hands-on Activities”, TSTA Convention, Nashville, TN, Fall 1995

Small Scale Chemistry, Metropolitan Nashville Schools, Nashville, TN, Summer 1995

Professional Organizations/Awards:

FOSH Investigative Journalism Award November 2004

American Chemical Society, Nashville Chapter Teacher of the Year 2004

Fulbright Memorial Fund Scholar (Japan), Awarded March 2002, Travel date Nov 15th-Dec 5th, 2003

Teacher of the Year Award 2001, Whites Creek Comprehensive High School

Metropolitan Nashville Schools Science Action Award, 1995, 1996, 1997

Phi Kappa Phi Honor Society, Tennessee State University Chapter

Kappa Delta Pi Honor Society, Austin Peay State University Chapter

Delta Tau Alpha Honor Society, Austin Peay State University Chapter

Textbook Editing:

Holt Biology 2008, Holt, Rinehart, Winston, Chapters 8, 9, 19, 23, 2005-2006

Paula V Wilkes Pendergrass (2004) The short-term effects of Reading Recovery on children's reading development: Process and product, Doctoral Dissertation, Tennessee State University

9th and 10th Grade Integrated Chemistry and Physics, Holt, Rinehart and Winston, Chapters 1,9,10, Spring 1999

Newton’s Apple Teacher’s Guide, Spring 1999

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Supervision:

Project Dean, Gateway Biology Institute Phases I & II, Vanderbilt University and Metropolitan Nashville Schools, 2 weeks, Summer 2001

Nikki Joiner, student teacher at Middle TN State University, 7 weeks, Spring 2001

Scott Christian, student teacher at Peabody College, Vanderbilt University, 10 weeks, Spring 2000

June Collins, student teacher at Peabody College, Vanderbilt University, 10 weeks, Spring 1999

Community Service/Invited Lectures:

Faculty Advisor: Kappa Delta Pi, Student Chapter at Western Kentucky University, August 2009-present

Central Utah Science and Engineering Fair, Secondary Competition Judge, March 2009.

Ohio State University College of Veterinary Medicine Sound Horse Conference, Panelist, "Affecting Social and Cultural Change through Organizational Change", Columbus, Ohio, April 2008

Robertson/Davidson/Montgomery County Tennessee, 4-H Horse Program Volunteer Leader, 2002-2008

Special Olympics Equestrian Program Volunteer, Franklin, TN, Summer 2001

Middle Tennessee State University Health Educator's Workshop, Invited Speaker, "Researching Health Topics Through Interactive Technology", Summer 2001

Vanderbilt University Medical Center Science Teacher Leadership Institute, Invited Lecturer, "The Use of Interactive Technology in the Science Classroom", Summer 2001

G.A.S. Girls and Science: A Science Camp for Middle School Aged Girls, Career Panelist, Vanderbilt University Medical Center, Summer 2000, Summer 2001

Horsemanship Safety, Lecture Presented at Austin Peay State University, Clarksville, TN, Fall 1999

G.A.S. Girls and Science: A Science Camp for Middle School Aged Girls, Served as a Teacher/Counselor at Vanderbilt University, Nashville, TN, Summer 1999

Guaranteed Success!, Vanderbilt University/Metropolitan Nashville Schools Collaborative Student Achievement Project, Teacher/Coordinator, 1998-1999 Academic Year

Chairperson-Guides Committee, National Science Teachers Association, Southern Area Convention Planning, Nashville, TN, Fall 1998

Parenting Education Series: Childhood Nutrition and Childhood Eating Disorders, Austin Peay State University for the Office of Continuing and Extended Education, Clarksville, TN, Fall 1996