

CURRICULUM VITAE

NICHOLE MARON LYLE ELKINS

Lecturer

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I. CITIZENSHIP

United States of America

II. ACADEMIC DEGREES

M.S. Geology, (Geoarchaeology) University of Georgia, 2002

B.A. Anthropology, Summa Cum Laude, with Highest Honors, University of Georgia,
1998

III. TEACHING EXPERIENCE

Lecturer – Department of Geology, Bowling Green State University, Fall 2006- present

GEOL 104: Earth Environments

Enrolled: 88 in each of two courses (Spring 2007)

ACS252/ACS 252H: Indigenous Cultures of North America

Enrolled: 27 (Fall 2006), 25 (Fall 2007)

On-campus courses managed using BlackBoard.

Full-time Instructor – Department of Geology, Bowling Green State University, Fall 2004 - Spring 2006

GEOL 104: Earth Environments

Enrolled: 88 in each of two courses (Spring 2005, Spring 2006)

ACS 252/ACS 252 H: Indigenous Cultures of North America

Enrolled: 18 (Fall 2004), 24 (Fall 2005)

Taught two large section introductory level geology courses with labs during spring semester. Responsibilities included: use of Blackboard for class assignments, lecture notes, lab grades, and course evaluations in addition to typical teaching duties for 180 undergraduates (lectures, in-class assignments, group projects, exams (written and multiple choice, etc). During the fall semester 2004 teaching duties were completed on GeoJourney as the American Culture Studies instructor for which a new course was created and implemented for the first time in the field at BGSU.

ENVS 493: Greater Yellowstone Ecosystems

Enrolled: 27 (Spring 2006)

Staff member for required 10-day field trip to Yellowstone.

Part-time Instructor, Anthropology, UGA-Interdisciplinary Field Program, University of Georgia, Summer 1999 – Summer 2007

Participated as the anthropology instructor for ANTH 2120H (Introduction to Anthropology), ANTH 4330H/6330H (Contemporary Native Americans), and ANTH

4020/6020H (North American Indians) for the summer semesters during which time responsibilities included: lecturing, developing lesson plans, instruction at field stops, developing and administering tests, leading group discussions, grading tests and field notebooks, determination of final course grades.

Teaching Assistant, Geology, UGA-Interdisciplinary Field Program, University of Georgia, Summer 1999 - 2002

Participated as geology teaching assistant for GEOL 2350H (Physical Geology), 2360H (Historical Geology), and GEOL 4330/6330 (Geology of North America). for summer semesters. Responsibilities included: administering labs, assembling lab equipment, assistance with field exercises, grading of exercises and field notebooks.

Part-time Instructor, Geology Department, Bowling Green State University, Spring 2003 – Spring 2004

Geology 100: Introduction to Geology
Enrolled: 90, (Spring 2003, Fall 2003)

Geology 104: Earth Environments (with lab)
Enrolled: 88 (Spring 2004)

Substitute Instructor, Geology Department, Bowling Green State University, Fall 2003

Substituted as instructor for three geology courses, Geology 100Q, Geology 104, and Geology 490/690 for faculty member on research project. Served as instructor, which included lectures, testing, in-class assignments and grading, for last six weeks of Fall semester.

IV. ADMINISTRATIVE EXPERIENCE

Director, GeoJourney, Bowling Green State University, Spring 2008 – present

Management of GeoJourney program, including facilitating transition of fall program to summer beginning 2009. Oversight of instructor/staff hiring, student recruitment and selection, and budget and equipment management.

Associate Director, GeoJourney, Bowling Green State University, Spring 2004-Spring 2008

Assisted the GeoJourney Director in acquiring official recognition for the GeoJourney program at Bowling Green State University in February of 2004 after 16 semester hours of general education courses in Geology, American Culture Studies and Environmental Studies were created and operating budgets were approved by the Dean of the College of Arts and sciences and the Vice-provost. Designed and created American Culture Studies course entitled “Indigenous Cultures of North America.” Provided logistical organization and implementation for GeoJourney Fall 2004-2007 programs, including reserving and budgeting for all campground reservations, designing field excursions, applying for fee waivers to National Parks/Monuments, advertising for GeoJourney, recruiting/accepting/registering students, recruiting staff and organizing orientation picnic for student participants and parents. Managed \$140,000 budget using PeopleSoft Financial Management System and BGSU purchasing card. Computer skills include: Excel, PowerPoint, Word, DreamWeaver, GarageBand., iMovie, iTunes, iDVD, HandBrake, Photoshop.

Administrative Director, UGA-Interdisciplinary Field Program, University of Georgia, Fall 1999-present

Six years of service as Administrative Director of the Honors Interdisciplinary Field Program, an eight-week, traveling, entirely field based program co-sponsored by the UGA Geology Department and the UGA Honors Program. Directorial responsibilities included: participation in the field as logistical coordinator, student recruiting, selection, and registration, coordination of all logistics, including, but not limited to, campground reservations, application for fee waivers to National Parks and Monuments, supervision of staff hiring, scheduling of itinerary, curriculum design of anthropology, geology, and ecology field courses, participation in the bidding process for program vehicles, organization and design of advertising efforts (brochures, study abroad fairs, etc.).

V. CURRICULUM DEVELOPMENT

Developed four general education courses that are interdisciplinary, introductory-level field-based courses in the following subjects: geology, environmental studies, and American culture studies. The courses are taught concurrently in fall semesters as part of a nine-week traveling field program across the United States called "GeoJourney".

GEOL 250- Field-based Physical Geology (5)

GEOL 251- Field-based Historical Geology (5)

ACS 252- Indigenous Cultures of North America (3)

ENVS 253- Environments in Context (3)

VI. PROFESSIONAL AND RESEARCH EXPERIENCE

Field Archaeologist, R.S. Webb and Associates, Atlanta, GA, 1998

Participated in "Phase Three" contract archaeological investigations at a Late Woodland site in north Gwinnett County, GA. Duties included: field excavations of housing structures, middens, and burials, cataloguing of features and artifacts recovered, delineation of site parameters and features using surveying equipment, site mapping and interpretation, artifact cleaning, sorting, and primary field identification.

Field Research, in pursuit of Master's Degree, Carthage, Tunisia, Spring, 2000

Traveled to North Africa to complete field sampling of metallurgical slag excavated from a Roman necropolis. Slag was removed from storage in the Museum of Carthage and initially characterized using geological field identification techniques to determine the most representative and analytically useful samples for further analysis upon their return to the University of Georgia.

Laboratory Research, in pursuit of Master's Degree, University of Georgia, Spring 2000 – Spring 2002

Prepared slag samples for thin sectioning. Performed petrography on 48 of 90 samples removed from Carthage using transmitted and reflected light microscopy techniques to identify various mineral phases present. Recorded samples using photomicrography. Additional micro-analytical techniques using an electron microprobe were used to verify field and petrographic identifications of mineral phases and to determine the metallurgical conditions required for the production of such slags. Interpretations were made with the aid of phase diagrams and comparison with data sets from others slag analyses.

VII. SERVICE

Faculty sponsor of BaseCampus at Bowling Green State University, Spring 2008-present

Oversees procedure and activities of student organization including volunteer projects, fund-raising activities, bi-weekly meetings, social events, and recruiting for GeoJourney.

Co-sponsor of BaseCampus at Bowling Green State University, Spring 2005 - present

Assisted in creation of new student service organization on campus and participate regularly in organization's volunteer efforts at local and regional parks.

GeoJourney: Advertising, Recruiting

Face-to-face recruitment at President's Day, Preview Day (October and December), Honors Scholars Day (January and February), weekly recruitment sessions at the Bowen Thompson Student Union, interviews with interested students.

Geology Department: Lab 104 Coordinator

Served as coordinator for geology labs for all sections offered in department during spring semester 2005/2006. Duties included: weekly TA and faculty meetings, researching and ordering new supplies for labs, revising and updating lab exercises and equipment, coordination of lab activities and field trips.

GeoJourneysm, Incorporated (January 2001- Present)

Co-Founder/Secretary:

Incorporated GeoJourneysm, Inc., January 19th, 2001

Responsibilities have included: tailoring the program's curriculum, itinerary, and course offerings to best suit student interest while satisfying important degree requirements and upholding honors-level course content, budget development, filing of Articles of Incorporation, filing notice of Intent to Incorporate, filing for 501(c)(3) status (pending), assembling a board of directors, attending quarterly meetings of board members and staff, researching possible funding sources, web site development, promotional and advertising publication development, establishing a network of potential staff members and consultants.

Co-sponsor of Geology Club at Bowling Green State University, Fall 2003-Spring 2005

Assisted Geology Club sponsor chaperoning club field trips to local and regional sites of geologic interest. Assisted with annual Geology Banquet for students, faculty, and alumni.

VIII. AWARDS AND HONORS

Honors Program Student, University of Georgia, 1994-1998

Honors Certificate Award (with Highest Honors) Recipient

HOPE Scholarship Recipient, University of Georgia, 1994-1998

Presidential Scholar (4.0 grade point average), 9 undergraduate semesters

University-wide Teaching Assistant Stipend Recipient, 1999

Phi Beta Kappa

Golden Key National Honor Society

Phi Kappa Phi

IX. PROFESSIONAL SOCIETIES

Geological Society of America

National Association for Research in Science Teaching

X. RESEARCH INTERESTS

Summary:

- 1.) Assessment of the effectiveness of field-based, inquiry-based, hands-on techniques in introductory, interdisciplinary geology classes on improving scientific literacy. Analytical approaches include using mixed methods (validated summative assessments, video-taped student interviews, and written student evaluations).
- 2.) Development of instructional media for use while traveling in vehicles to field stops as a way to make effective use of travel-time in-route on field excursions.

X. GRANTS AND FUNDING

Speed Grant (Professional Development), Bowling Green State University, 2004 (\$350)
University of Georgia -Wheeler Watts Fund, 2000 (\$1500)
Geological Society of America, 2000 (\$500)
University of Georgia Center for Archaeological Sciences, 2000 (\$500)

XI. PUBLICATIONS

Elkins J. and Elkins, N.M.L.: " GeoJourney: A nine-week introductory field program with an interdisciplinary approach to teaching geology, Native American cultures, and environmental studies" *Journal of College Science Teaching* accepted (January, 2007)

Elkins, J. and Elkins, N.M.L. "Teaching Geology in the Field: Significant geoscience concept gains in entirely field-based introductory geology courses " *Journal of Geoscience Education* v.55, n. 2, pp. 126-132, 2007

Elkins, J., and Elkins, N.M. L., "Improving student learning during travel time on field trips using an innovative, portable audio/video system" *Journal of Geoscience Education* v. 54, n. 2, pp. 147-152, 2006.

Manuscripts in Preparation:

Elkins J. and Elkins, N.M.L. "Using the iPod to reduce geographic and cognitive novelty space on GeoJourney" submitted to *Journal of Geoscience Education* January, 2007

Elkins J. and Elkins, N.M.L. "Temporal changes in student novelty space on an introductory geology field trip" in submission to the *Science Education* Summer, 2007

Abstracts:

May, Elizabeth; Elkins, Nichole; Jones, Robert; Elkins, Joe T. Bison, Blisters and the "Teachable Moment:" Experiment and Experience in Archaeological Training. Abstracts with Programs, The Annual Meeting of the Society of American Archaeology, 2008.

Elkins, J. and **Lyle-Elkins, N** "iToy or iTool?: the Use of iPod on a field-based Introductory Geology Course" Abstracts with Programs, The Annual Meeting of the Geological Society of America, 2006.

Lyle-Elkins, N. and Elkins, J " Results of the Geoscience Concept Inventory from Field-based Introductory Geology Courses" Abstracts with Programs, The Annual Meeting of the Geological Society of America, 2006.

Lyle-Elkins, N. and Elkins, J. "Assessment of the Effectiveness of Interdisciplinary Expeditionary Field Trips on Student Misconceptions in Geosciences." Abstracts with Programs, The Annual Meeting of the Geological Society of America, 2004.

Elkins, J. and **Lyle-Elkins, N.** "GeoJourney: An Interdisciplinary Expeditionary Field Trip Across the United States." Abstracts with Programs, The Annual Meeting of the Geological Society of America, 2004.

Elkins, J. and **Lyle-Elkins, N.** "The Development of Portable Audio/Visual System for Instructional Use During Travel Time to Field Stops." Abstracts with Programs, The Annual Meeting of the Geological Society of America, 2004.

Elkins, J., **Lyle-Elkins, N.**, and Verhoff, J. "A Field-trip to Geologically Diverse Terrain in Georgia to Enhance an Introductory Honors Geology Course." Abstracts with Programs, The Annual Meeting of the Geological Society of America, 2003

Lyle, Nichole M., and Swanson, Samuel E., "The Use of Geological Methods for the Characterization of Roman Metallurgical Slag from the Yasmina Cemetery in Carthage, Tunisia," 33rd International Symposium on Archaeometry, Amsterdam, Netherlands, April 22-26, 2002

Lyle, Nichole M., Elkins, Joe T., and Wenner, David B., "The University of Georgia Interdisciplinary Field Program: A Time-tested Approach to Interdisciplinary Field-based Geoscience Education," Annual Southeast Geological Society of America Meeting, April 2002

Lyle, Nichole M., "The Use of Geological Methods for the Characterization of Ancient Slag from the Excavation of the Yasmina Cemetery at Carthage, Tunisia," Annual Southeast Geological Society of America Meeting, April 2001

XI. CERTIFICATIONS and PROFESSIONAL DEVELOPMENT

PeopleSoft Financial Management Systems Training: Budget Administrator, Spring 2006
Bowling Green State University

BGSU IDEAL Online Teacher Training Program, July, 2006

Wilderness First Responder. Completed Wilderness Medical Associates, Wilderness First Responder course at Bowling Green State University, Bowling Green, OH, May, 2007.

Introduction to iMovie, Center for Teaching and Learning Technology, Bowling Green State University, Bowling Green, OH, April, 2007

Introduction to Podcasting. Center for Teaching and Learning Technology, Bowling Green State University, Bowling Green, OH, February, 2007