

**David Bruce Lewis**  
*Curriculum Vitae—April 2017*

University of South Florida  
Department of Integrative Biology  
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**Research interests**

Ecosystem ecology and soil biogeochemistry; freshwater and coastal wetland ecology; land-air-water nutrient exchange; ecohydrology; urban ecology; interdisciplinary socioecological research

**Positions**

Associate Professor	Dept of Integrative Biology, University of South Florida, 2016-
Assistant Professor	Dept of Integrative Biology, University of South Florida, 2009-2016
Post-doctoral Researcher	Dept of Crop and Soil Sciences, Penn State University, 2005-2009
Post-doctoral Researcher	Global Institute of Sustainability, Arizona State University, 2000-2005

**Affiliate positions**

Affiliated Researcher	University of South Florida (USF) Water Institute, 2016-
Research Affiliate	USF Office of Sustainability, 2010-2012

**Education**

PhD	University of Wisconsin-Madison, Limnology and Marine Science, 2000
MS	University of Wisconsin-Madison, Limnology and Marine Science, 1996
BA	University of Kansas, Biology, 1994

**Mentoring** (2010-present)

*Major advisor of graduate students*

- Currently, major advisor of 1 Ph.D. and 4 M.S. students
- Alumnae: 2 M.S. students (Positions after graduation shown in parentheses.)
  - Sharon Feit. 2012. "Variability in hydrology and ecosystem properties and their role in regulating soil organic matter stability in wetlands of west-central Florida." M.S. Thesis. University of South Florida. (Environmental Specialist with environmental engineering firm)
  - Viviana Penuela. 2014. "Influences of yard management intensity on urban soil biogeochemistry." M.S. Thesis. University of South Florida. (Environmental Specialist with the FL Dept of Environmental Protection.)

*Other mentoring*

- Served on Ph.D. and M.S. advisory committees for 18 other current and former graduate students
- Five undergraduate research projects generating student papers/presentations
- Supervised research participation opportunities for 30 undergraduate students
- Supervisor of a professional research technician (2011-13; Subsequently, manager of isotope biogeochemistry lab at U of Cincinnati, research technician at Cincinnati Children's Hospital)
- One post-doc mentored (2009-2010; now with an engineering firm)

### **Teaching program**

Active learning approaches are central to my teaching program. As appropriate to class size and level, these approaches include in-class polling, facilitated discussions, the seminar format, and small-group team-based learning.

*Courses taught* (2010-present; ‡ developed course)

- ‡ Ecosystem Ecology—Graduate course. Uses texts and primary literature to understand ecosystem metabolism; nutrient limitation of ecosystem processes; energy and nutrient flow through patchy environments, among plants, animals, and microorganisms, and among soils, water, and the atmosphere; transformation of nutrient elements among chemical forms; and roles of hydrology, food webs, and ecosystem state factors in nutrient budgets.
  - ‡ Urban Ecology—Graduate and upper-level undergraduate course. Foundational and emerging themes in ecology at an advanced level, and set in an urban context. Emphasizes coupled natural-human systems. Based on primary literature for grads and undergrads.
  - ‡ Environment—Non-majors course on the science behind environmental change issues (climate change, biodiversity loss, pollution, etc) and socio-political aspects of environmental change. Introduces the role of theory in the scientific method, and in evolution and climate change.
  - ‡ Landscape Ecology—Graduate-level course. Emphasizes the interplay of pattern, process, and scale in ecological systems. Hands-on research opportunity provides students with spatial data and computing resources for analysis.
- Principles of Ecology—Upper-level undergraduate course. Pairs theory with empirical examples from long-term, comparative, experimental, and modeling studies. Covers all levels of ecological organization, the scientific method, and evolutionary theory.
- Ecology Laboratory—Upper-level undergraduate course (separate from lecture). Students complete projects in all areas of ecology, requiring data collection and analysis, and papers written in the scientific format that exhibit hypothesis development and testing.
- Principles of Biology—Non-majors course. A introduction to living systems, including the scientific basis of biology, cell structure and function across the three domains of life, genetic mechanisms, plant and animal anatomy and physiology, and ecology and evolution.

**Bibliography** Visit my lab webpage (<http://lewislab.org/publications/>) for links to publications.

*Peer-reviewed articles in indexed, refereed journals*

For articles 2013-present: \*\* Undergraduate, \* Graduate student, ‡ Post-doc

- 1) Flower H\*, Rains M, Lewis D, and Zhang J-Z. 2017. Rapid and intense phosphate desorption kinetics when saltwater intrudes into carbonate rate. *Estuaries and Coasts* Accepted, in press.
- 2) Flower H\*, Rains M, Lewis D, Zhang J-Z, and Price R. 2017. Saltwater intrusion as potential driver of phosphorus release from limestone bedrock in a coastal aquifer. *Estuarine, Coastal and Shelf Science* 184-166-176.
- 3) Cohen MJ ... Lewis DB ... and others (24 authors). 2016. Do geographically isolated wetlands influence landscape functions? *Proceedings of the National Academy of Sciences USA* 113:1978-1986.
- 4) Flower H\*, Rains M, Lewis D, Zhang J-Z, and Price R. 2016. Control of phosphorus concentration through adsorption and desorption in shallow groundwater of subtropical carbonate estuary. *Estuarine, Coastal and Shelf Science* 169:238-247.

- 5) Lewis DB. 2016. Response of wetland soil carbon to groundwater conservation: probabilistic outcomes from error propagation. *Ecological Indicators* 60:538-547.
- 6) Marton JM<sup>‡</sup>, Creed IF, Lewis DB, Lane CR, Basu NB, Cohen MJ, and Craft CB. 2015. Geographically isolated wetlands are important biogeochemical reactors on the landscape. *BioScience* 65:408-418.
- 7) Lewis DB and Feit SJ\*. 2015. Connecting carbon and nitrogen storage in rural wetland soil to groundwater abstraction for urban water supply. *Global Change Biology* 21:1704–1714
- 8) Lewis DB, Brown JA\*\*, and Jimenez KL. 2014a. Effects of flooding and warming on soil organic matter mineralization in *Avicennia germinans* mangrove forests and *Juncus roemerianus* salt marshes. *Estuarine, Coastal and Shelf Science* 139:11-19.
- 9) Lewis DB, Castellano M, and Kaye JP. 2014b. Forest succession, soil carbon accumulation, and rapid nitrogen storage in poorly-remineralized soil organic matter. *Ecology* 95:2687–2693
- 10) Schipanski ME<sup>‡</sup>, Smith RG, Pisani Gareau TL, Jabbour R, Lewis DB, Barbercheck ME, Mortensen DA, and Kaye JP. 2014. Multivariate relationships influencing crop yields during the transition to organic management. *Agriculture, Ecosystems & Environment* 189:119-126.
- 11) Anne NJP\*, Abd-Elrahman AH, Lewis DB, and Hewitt NA\*\*. 2014. Modeling soil parameters using hyperspectral image reflectance in subtropical coastal wetlands. *International Journal of Applied Earth Observation and Geoinformation* 33:47-56
- 12) Lewis DB, Kaye JP, and Kinzig AP. 2014c. Legacies of agriculture and urbanization in labile and stable carbon and nitrogen in Sonoran Desert soils. *Ecosphere* 5:article 59
- 13) Castellano MJ, Lewis DB, and Kaye JP. 2013. Response of soil nitrogen retention to the interactive effects of soil texture, hydrology, and organic matter. *Journal of Geophysical Research-Biogeosciences* 118:280-290.
- 14) Nilsson KA<sup>‡</sup>, Rains MC, Lewis DB, and Trout, KE. 2013. Hydrologic characterization of 56 geographically isolated wetlands in west-central Florida using a probabilistic method. *Wetlands Ecology and Management* 21:1-14.
- 15) Lewis DB and Kaye JP. 2012. Inorganic nitrogen immobilization in live and sterile soil of old-growth conifer and hardwood forests: implications for ecosystem nitrogen retention. *Biogeochemistry* 111:169-186.
- 16) Lewis DB, Kaye JP, Jabbour R, and Barbercheck ME. 2011. Labile carbon and other soil quality indicators in two tillage systems during transition to organic agriculture. *Renewable Agriculture and Food Systems* 26:342-353.
- 17) Lewis DB and Grimm NB. 2007. Hierarchical regulation of nitrogen export from urban catchments: interactions of storms and landscapes. *Ecological Applications* 17:2347-2364.
- 18) Lewis DB, Grimm NB, Harms TK, and Schade JD. 2007. Subsystems, flowpaths, and the spatial variability of nitrogen in a fluvial ecosystem. *Landscape Ecology* 22:911-924.
- 19) Lewis DB, Kaye JP, Gries C, Kinzig AP, and Redman CL. 2006. Agrarian legacy in soil nutrient pools of urbanizing arid lands. *Global Change Biology* 12:703-709.
- 20) Lewis DB, Schade JD, Huth AK, and Grimm NB. 2006. The spatial structure of variability in a semi-arid, fluvial ecosystem. *Ecosystems* 9:386-397.
- 21) Schade JD and Lewis DB. 2006. Plasticity in resource allocation and nitrogen use efficiency in riparian vegetation: implications for nitrogen retention. *Ecosystems* 9:740-755.

- 22) Hrabik TR, Greenfield BK, Lewis DB, Pollard AI, Wilson KA, and Kratz TK. 2005. Landscape-scale variation in taxonomic diversity in four groups of aquatic organisms: the influence of physical, chemical, and biological properties. *Ecosystems* 8:301-317.
- 23) Shochat E, Lerman SB, Katti M, and Lewis DB. 2004. Linking optimal foraging behavior to bird community structure in an urban-desert landscape: field experiments with artificial food patches. *The American Naturalist* 164:232-243.
- 24) Greenfield BK, Lewis DB, and Hinke JT. 2002. Shell damage in salt marsh periwinkles (*Littoraria irrorata* [Say, 1822]) and resistance to future attacks by blue crabs (*Callinectes sapidus* [Rathbun, 1896]). *American Malacological Bulletin* 17:141-146.
- 25) Lewis DB and Eby LA. 2002. Spatially heterogeneous refugia and predation risk in intertidal salt marshes. *Oikos* 96:119-129.
- 26) Lewis DB. 2001. Trade-offs between growth and survival: responses of freshwater snails to predacious crayfish. *Ecology* 82:758-765.
- 27) Lewis DB and Magnuson JJ. 2000. Landscape spatial patterns in freshwater snail assemblages across Northern Highland catchments. *Freshwater Biology* 43:409-420.
- 28) Reed-Andersen T, Bennett EM, Jorgensen BS, Lauster G, Lewis DB, Nowacek D, Riera JL, Sanderson BL, and Stedman R. 2000. Distribution of recreational boating across lakes: do landscape variables affect recreational use? *Freshwater Biology* 43:439-448.
- 29) Lewis DB and Magnuson JJ. 1999. Intraspecific gastropod shell strength variation among north temperate lakes. *Canadian Journal of Fisheries and Aquatic Sciences* 56:1687-1695.

*Book chapters, refereed (underwent anonymous peer review)*

- 30) Castellano MJ, Lewis DB, Andrews DM, and McDaniel MD. 2012. Coupling biogeochemistry and hydrogeology to advance carbon and nitrogen cycling science. Pp. 711-735 in "Hydrogeology: Synergistic Integration of Soil Science and Hydrology" (ed. H Lin), Elsevier.
- 31) Lewis DB, Harms TK, Schade JD, and Grimm NB. 2009. Biogeochemical function and heterogeneity in arid-region riparian zones. Pp. 323-341 in "Ecology and Conservation of the San Pedro River" (eds. JC Stromberg and B Tellman), University of Arizona Press.
- 32) Armstrong DE, Lauster GH, Sanderson BL, Lewis DB, and Frost TM. 2006. Jumping in: within-lake processes and dynamics. Pp. 187-213 in "Long Term Dynamics of Lakes in the Landscape" (eds. JJ Magnuson, TK Kratz, and BJ Benson), Oxford University Press.
- 33) Kratz TK, Webster KE, Riera JL, Lewis DB, and Pollard AI. 2006. Making sense of the landscape: geomorphic legacies and the landscape position of lakes. Pp. 49-66 in "Long-term Dynamics of Lakes in the Landscape" (eds. JJ Magnuson, TK Kratz, and BJ Benson), Oxford University Press.
- 34) Grimm NB, Arrowsmith JR, Eisinger C, Heffernan J, MacLeod A, Lewis DB, Prasad L, Rychener T, Roach WJ, and Sheibley RW. 2004. Effects of urbanization on nutrient biogeochemistry of aridland streams. Pp. 129-146 in "Ecosystems and Land Use Change," Geophysical Monograph Series, Vol. 153 (eds. R DeFries, G Asner, and R Houghton), American Geophysical Union.

*Technical reports, proceedings, and unrefereed publications*

- 35) Lewis DB. 2002. Stoichiometry and load of nutrients and metals discharged from urban catchments by storms. Pp. 49-55 in "Discharged urban waters: Ressource [sic] or Risk? Proceedings Volume 1." Proceedings of the First World Wide Workshop for Junior Environmental Scientists. Domaine de Chérioux, Vitry sur Seine, France, 21-24 May 2002.

- 36) Scheele CEH, Lathrop RC, Marshall DW, Decker EL, Lewis DB, and Snyder SD. 1999. A survey of swimmer's itch-causing cercariae and their intermediate snail host species in Devil's Lake Wisconsin. Wisconsin Department of Natural Resources.

### **Funded grants** (2009-present)

- 1) Determining sources and risk of fecal pollution in Tampa Bay tributaries. PI: VJ Harwood. Co-PI: DB Lewis. Environmental Protection Commission of Hillsborough County (Florida). \$50,000. Mar 2016-Mar 2018.
- 2) RAPID: Assessing vulnerabilities from climate change: impacts of water provision, power relations and perceptions of risk on ecohydrology in the Tampa Bay Region Socioecosystem. PI: RK Zarger. Co-PIs: FA Akiwumi, SM Landry, DB Lewis, and MC Rains. National Science Foundation. \$88,766. September 2012-August 2015.
- 3) Request for One-to-One Matching Funds for an X-ray Fluorescence Spectrometer. PI: DB Lewis. University of South Florida Office of Research and Innovation, Competitive one-to-one capital funding program. \$16,050. Mar 2015.
- 4) RAPID: Plant species effects on rapid stabilization of nitrogen in soil organic matter of mangrove ecosystems at risk from oil deposition. PI: DB Lewis. Co-PI: A Abd-Elrahman. National Science Foundation. \$159,976. September 2010-August 2013.
- 5) Urban development, power relations, and water redistribution as drivers of wetland change in the Tampa Bay urban ecosystem. PI: DB Lewis. Co-PIs: FA Akiwumi, TL Crisman, MC Rains, and RK Zarger. National Science Foundation. \$289,352. December 2009-March 2013.
- 6) Toward a more general definition of biological regulation of soil organic carbon. PI: DB Lewis. University of South Florida Office of Research & Innovation, Proposal Enhancement Grant. \$25,000. Nov 2011-Oct 2012.
- 7) Toward an understanding of coupled biogeochemical cycles in freshwater wetlands. PI: DB Lewis. University of South Florida Office of Research & Innovation, New Researcher Grant. \$20,000. May 2011-May 2012.

### **Select Presentations**

- Approximately 91 presentations total
  - ~47 as lead author: 22 invited, 24 at national/international meetings
  - Remainder as coauthor: 22 at national/international meetings
- Select recent presentations. For brevity, only first author is listed on many presentations.
  - \*\* Undergraduate, \* Graduate student
  - **STUDENT PRESENTATION** – Flower H\*, *et al.* "Rapid and intense phosphate desorption kinetics when saltwater intrudes into carbonate rock." Greater Everglades Ecosystem Restoration conference (Coral Springs, FL), April 2017.
  - **STUDENT PRESENTATION** – Martinez K\*\* (mentor: DB Lewis). "Lateral and vertical components of leaf litter inputs: mesic flatwood and floodplain swamp ecosystems on a subtropical toposequence." USF Undergraduate Research Colloquium (Tampa, FL), April 2016.
  - **OUTSTANDING ORAL PRESENTATION AWARD; STUDENT PRESENTATION** – Penuela V\*, Lewis DB. "Influences of yard management intensity on urban soil biogeochemistry." Annual meeting of the Society for Advancement of Chicanos/Hispanics and Native Americans in Science (Washington, DC), October 2015.

**Select Presentations** (continued)

- **STUDENT PRESENTATION** – Langanke K\*\*, Mounger J\*\*, Voors S\*\*, Anderson B\*, Lewis DB, Richards CL. "Diversity and Predictors of Salt Pan Edge Vegetation in Werner-Boyce Salt Springs State Park." USF Undergraduate Research Colloquium (Tampa, FL), February 2015.
- Lewis DB. "Biogeochemistry and ecosystem services in the Anthropocene." USF-St. Petersburg Dept. of Environmental Science, Policy, & Geography colloquium series (St. Petersburg, FL), November 2015. Invited.
- **STUDENT PRESENTATION** – Voors S\*\*, Alvarez M\*, Richards CL, Lewis DB. "Biological Molecular Mechanisms of Nutrient Cycling." Honors Thesis. USF Undergraduate Research Colloquium (Tampa, FL), February 2015.
- Lewis DB. "The long arm of land use: pervasive ecological impacts in time and space." USF Dept. of Integrative Biology seminar series (Tampa, FL), November 2014.
- Zarger RK, *et al.* "Ecological Proxies, Waterscapes, and Water Management in Tampa Bay, Florida." American Association of Geographers annual meeting, Panel—*Critical Approaches to Urban Water Governance* (Tampa, FL), April 2014.
- Lewis DB. "Sensitivity of nitrogen storage in soil organic matter to wetland hydroperiod and vegetation." Annual meeting of the Society of Wetland Scientists—South Atlantic Chapter (Tampa, FL), October 2013.
- Kaye JP, *et al.* "Rapid immobilization of inorganic nitrogen in stable soil organic matter of forest ecosystems." EcoSummit (Columbus, OH), October 2012.
- Zarger RK, *et al.* "The power of perceptions: hydroecological change and water redistribution in Tampa Bay." Long-Term Ecological Research Network—All-Scientists Meeting (Estes Park, CO), September 2012.
- Lewis DB, *et al.* "Nitrogen immobilization in soil as a function of soil and plant traits in salt marsh and mangrove ecosystems: a test of the rapid N stabilization hypothesis." Annual meeting of the Ecological Society of America (Portland, OR), August 2012.
- **STUDENT PRESENTATION** – Brown J\*\*, *et al.* "Interactive effects of simulated sea-level rise and warming on microbial carbon and nitrogen cycling in mangrove and salt marsh soils." USF Honors College Thesis Day (Tampa FL), April 2012. Invited.
- **STUDENT PRESENTATION** – Anne N\*, *et al.* "Estimating forest biophysical parameters in the spatially heterogeneous urban-rural gradient of the Tampa bay area using Hyperion and Landsat images." American Society of Photogrammetry and Remote Sensing annual meeting (Sacramento, CA), March 2012.
- **STUDENT PRESENTATION** – Feit SJ\*, Lewis DB. "Hydrological and vegetative influences on soil organic carbon and nitrogen pools in isolated wetlands of West-central Florida." Annual meeting of the Ecological Society of America (Austin, TX), August 2011.
- Lewis DB, *et al.* "Urban development, power relations, and water redistribution as drivers of wetland change in the Tampa Bay Region Socioecosystem." Annual meeting of the Ecological Society of America (Austin, TX), August 2011.
- Lewis DB, *et al.* "Urban development, power relations, and water redistribution as drivers of wetland change in the Tampa Bay Region Socioecosystem." US EPA workshop—*Developing a network of urban research on climate vulnerability* (Seattle), April 2011. Invited.

## **Professional activities**

### *Service to the public and professional communities (2009-present)*

- K-12 STEM Content Coach. Math & Science Partnership between USF and two Florida school districts. Provide science content instruction to K-12 classroom teachers. (2016-2017)
- Panelist, U.S. National Science Foundation proposal review panel (2010, 2013, 2014, 2017)
- Institutional representative from USF to CUASHI (Consortium of Universities for the Advancement of Hydrologic Science, Inc.) (2014-present)
- Reviewer of proposals to the U.S. National Science Foundation, Division of Environmental Biology and Division of Earth Sciences (recurring)
- Reviewer of preliminary and full proposals to Maryland Sea Grant (2010)
- Member, Ecological Society of America
- Reviewer for journals (2009-present): *Ag and Forest Meteorology, Biogeochem, Biogeosci, Biol Ag & Horticulture, Ecol Applications, Ecol Engineering, Ecology, Ecosphere, Ecosystems, Environ Sci & Tech, Forests, Geoderma, Internat J Sediment Research, J Am Water Resources Assoc, J Environ Quality, J North American Benthological Society, J Plant Nutrition & Soil Sci, J Soils and Sediments, Landscape and Urban Planning, Landscape Ecol, Pedosphere, Plant and Soil, PLOS-ONE, Renewable Ag Food Systems, Soil Sci Society of Amer J, Urban Ecosystems, Wetlands*
- Textbook reviews for "SimUText Ecology," SimBiotic Software for Teaching and Research, Inc. (2010); "A Changing Planet," Neff, Pearson (2016)

### *Service to my home institution (2009-present at the University of South Florida)*

- Member, Organizing Cmte to obtain USF chapter of Phi Beta Kappa honor society, 2016-
- Member, Faculty Advisory Cmte, Dept of Integrative Biology (IB Dept), 2016-
- Member, Quantitative Biologist Faculty Search Cmte, IB Dept, 2016-17
- Alternate member, USF Library Cmte, 2015-
- Member, Graduate Admissions and Policies Cmte, IB Dept, 2014-
- Member, USF Forest Preserve Steering Cmte, 2011-
- Member, Web Cmte, IB Dept, 2013-2014
- Member, Course Curriculum Cmte, IB Dept, 2009-2014
- Reviewer, USF Institutional Review Board, 2011
- Member, Learning Assessment Plan Cmte, IB Dept, 2010-2012
- Member, Groundwater Geochemist Faculty Search Cmte, USF Dept of Geology, 2010
- Member, Governance Document ad hoc cmte, IB Dept, 2010
- Member, Steering Cmte for USF bid to host the IGBP 2012 Conference, 2009-2010

### *Workshop participation*

- "Systemic Transformation of Evidence-Based Education Reform (STEER)," Interdisciplinary STEM retreat, University of South Florida, 04 Feb 2017, Tampa, FL.
- "Systemic Transformation of Evidence-Based Education Reform (STEER)," Interdisciplinary STEM retreat, University of South Florida, 30 Jan 2016, Tampa, FL.
- "Isolated Wetlands Research Workshop," U.S. EPA. 18-21 Nov 2013, Joseph W. Jones Ecological Research Center, Newton, GA.
- "Developing and coordinating research on urban vulnerability to climate change." U.S. Environmental Protection Agency, 01-02 Nov 2012, Arlington, VA.

**Professional activities** (continued)

- “Developing a network of urban research on climate vulnerability.” U.S. Environmental Protection Agency, 11-12 Apr 2011, Seattle.
- “Urbanization Interactions with Biogeochemistry and Climate.” 2nd Workshop of the Young Scientist Network, 09-10 Sep 2006, Mexico City. Sponsored by the U.S. National Center for Atmospheric Research and Analysis, Integration and Modeling the Earth System.
- “Discharged Urban Waters: Resource of Risk?” 1st World Wide Workshop for Junior Environmental Scientists, 21-24 May 2002, Domaine de Chérioux, Vitry sur Seine, France. With the support of UNESCO.
- “Land-Water Linkages.” Long-Term Ecological Research (LTER) project Coordinating Cmte mtg, 18-20 Apr 2002, UNM Sevilleta Field Station, Socorro, NM
- “Integrating Social Science into LTER Programs: Ecosystem Function in Coupled Systems.” LTER Biocomplexity Workshop, 29 Apr–01 May 2002, Baltimore, MD.
- “International Young Researchers’ Workshop on Long-Term Ecological Research.” US-Japan LTER workshop, 11-19 Jun 1999, Otsu, and Tomakomai Experimental Forest, Japan.

**Student honors and awards***Graduate school (1994-2000, University of Wisconsin, Madison)*

- U.S. Environmental Protection Agency STAR fellow—\$58,068 (1998-2000)
- U.S. National Science Foundation graduate student fellow—\$48,000 (1994-1997)
- Univ. of Wisconsin, John Jefferson Davis research grant—\$1,500 (1998)
- Conchologists of America research grant—\$450 (1997)
- University of Wisconsin Anna Grant Birge Memorial Award—\$1,400 (1996)
- Univ. of Wisc. Alumni Research Foundation Grad Student Fellowship —\$16,000 (1994)

*Undergraduate period (1990-1994, University of Kansas)*

- Elected to Phi Beta Kappa national honors society (1994)
- Elected to Omicron Delta Kappa national leadership honor society (1993)
- Graduated with Honors, Biology Dept. (based on independent research, 1994)
- Graduated with Honors, University-level (based on course curriculum, 1994)
- Graduated with Distinction, University-level (based on grade point average, 1994)
- Outstanding Student in Biology—\$750 (1993)
- University Merit Scholarship—\$500 (1993)
- Outstanding Student in Japanese, Dept. of East Asian Languages & Cultures (1992)
- University Merit Scholarship—\$500 (1992)
- University Scholar grant recipient—\$250 (1992)
- Academic All Big 8 Conference (men’s D1 swimming)—all semesters Fall 1990-Spring 1994