

Curriculum Vitae
Bruce W. Stallsmith
January 2021

Education: B.A. Boston University, Economics
M.S. 1991 University of Massachusetts/Boston, Biology
Ph.D. 1995 University of Massachusetts/Boston, Environmental Biology

Professional Experience:

Interim Chair, Department of Biological Sciences, University of Alabama in Huntsville, Huntsville, AL, August 2018 – August 2019.
Associate Professor, Department of Biological Sciences, University of Alabama in Huntsville, Huntsville, AL, 2017 – present.
Assistant Professor, Department of Biological Sciences, University of Alabama in Huntsville, Huntsville, AL, 2011 – 2017.
Lecturer, Department of Biological Sciences, University of Alabama in Huntsville, Huntsville, AL, August 1999 – August 2011.
Assistant Professor, Liberal Arts, Montserrat College of Art, Beverly, MA, January 1996–May 1999.
Lecturer, Freshman Biology, Roxbury Community College, Roxbury, MA September 1997–May 1999.
Adjunct Assistant Professor, Brandeis University, Waltham, MA, Summer 1997, 1998, 1999.
Lecturer, Freshman Biology, University of Massachusetts/Boston, 1995–1997.
Teaching Assistant/Lecturer, University of Massachusetts/Boston 1989–1995.

Society Memberships:

American Society of Ichthyologists and Herpetologists
Southeastern Fishes Council
North American Native Fishes Association – past President; formerly Member, Board of Directors; currently Alabama regional representative.
American Association for the Advancement of Science

Reviewer Experience:

Journal of Freshwater Ecology
Southeastern Naturalist
American Midland Naturalist
Biology
Fish
Water
Journal of the Arkansas Academy of Science
Proceedings of the Southeastern Fishes Council
Ichthyological Exploration of Freshwaters
Endangered Species Research
Neotropical Biodiversity
Journal of the American Killifish Association

Publications and Presentations:

Stallsmith, B., J.P. Ebersole and W.G. Hagar. 1991. The Effects of Acidic Precipitation Upon Daily Patterns of *Lepomis* Sunfish Spawning and Hatching Success. Bull. zool. Mus. Univ. Amsterdam, Special Issue, August 1991, p. 79.

M.S. Thesis. 1991. Transient pH effects on *Lepomis* hatching dates. 80 pp.

- Hagar, W.G., P.G. Minuitti, B.W. Stallsmith. 1992. Remote Monitoring of Oxygen Levels in Savin Hill Cove of Boston Harbor. Proceedings of the First Thematic Conference on Remote Sensing for Marine and Coastal Environments 1: 547–556.
- Stallsmith, B.W., J.P. Ebersole, W.G. Hagar. 1993. Transient pH Effects on *Lepomis* Fish. American Association for the Advancement of Science Meeting, Boston, MA. AAAS Publ. 93-03S: A231 p. 223.
- Stallsmith, B.W., W.G. Hagar. 1993. Evaluation of Biotic Productivity of a Tidal Mudflat in Boston Harbor. Proceedings of the Twenty-Fifth International Symposium: Remote Sensing and Global Environmental Change, vol. 2, pp. 813–822.
- Paul, D., B.W. Stallsmith, W.G. Hagar. 1994. Detection of Estuarine Fronts Using an Interactive Data Collection Device. Proceedings of the Second Thematic Conference on Remote Sensing for Marine and Coastal Environments, vol. 2, pp. 127–137.
- Paul, D., B.W. Stallsmith, W.G. Hagar. 1994. An Interactive Data Collection Device for the Detection of Estuarine Fronts. Marine Technology Society Journal, 28: 45–49.
- Ph.D. Dissertation. 1995. The effects of acid rain on *Lepomis* sunfish reproduction in two ponds. 150 pp.
- Stallsmith, B.W., J.P. Ebersole, W.G. Hagar. 1995. Effects of transient acidity on daily *Lepomis* sunfish recruitment in a Massachusetts pond. Population Biologists of New England, 1995 meeting. Abstract available at: ftp.darwin.eeb.uconn.edu/pub/pbone95.
- Stallsmith, B.W., J.P. Ebersole, W.G. Hagar. 1996. The effects of acid episodes on *Lepomis* sunfish recruitment and growth in two ponds. Freshwater Biology 36: 731–744.
- Hagar, W.G. and B.W. Stallsmith. 1997. Acid rain and acid sensitive ponds in Massachusetts. Contributed paper, Northeast Regional Meeting of the American Chemical Society, p. 68.
- Bean, K.C., J. Looney, B. Stallsmith and W. Hagar. 1997. Weather patterns and acidic deposition in a weakly buffered pond in Massachusetts. Contributed paper, Northeast Regional Meeting of the American Chemical Society, p. 113.
- Stallsmith, B.W. and W.G. Hagar. 1997. Allometric growth patterns of young-of-the-year *Lepomis* sunfish: sagittal otolith size, standard length and age. Annual meeting of the American Society of Ichthyologists and Herpetologists, Seattle, WA, p. 278.
- Stallsmith, B.W. 1997. The Killifish of Nantucket. Journal of the American Killifish Association 30(6): 220–223.
- Hagar, W.G., B. Crosby and B. Stallsmith. 1998. Fossil Fuels and Acid Sensitive Ponds. Contributed extended abstract, American Chemical Society, Division of Environmental Chemistry, Vol. 38(2): 150–152.
- Stallsmith, B. and W.G. Hagar. 1999. The link between growth and otolith size in young-of-the-year *Lepomis* sunfish. American Currents, Vol. 25, No. 3, pp. 14–17.
- Stallsmith, B. 1999. A report to determine the range of the Spotfin Killifish, *Fundulus luciae*, in the coastal marshes of Bristol County, Cape Cod, Nantucket, the Elizabeth Islands and Martha's Vineyard. Submitted to The Nature Conservancy, acting on behalf of the Massachusetts Natural Heritage & Endangered Species Program, Contract #MAHERSW99-20.

Stallsmith, B.W. 2000. Determination of the northern limit to the range of the spotfin killifish, *Fundulus luciae*, in southeastern Massachusetts. Annual meeting of Ethology, Evolutionary Ecology and Conservation of Fishes (EEEEF 2000), Athens, Georgia.

Stallsmith, Bruce. 2000. A Happening Regional Chapter. *American Currents*, Vol. 26, No. 3, p. 25.

Stallsmith, Bruce. 2001. Where the Killifish Aren't: A Pictorial Essay on How the Growth of Downtown Huntsville, Alabama, Destroyed the Habitat of the Now-Extinct Whiteline Topminnow, *Fundulus albolineatus*. *American Currents*, Vol. 27, No. 3, pp. 14–18.

Stallsmith, Bruce. 2002. Killifishes of Nantucket. *American Currents*, Vol. 28, No. 1, pp. 21-22.

Stallsmith, BW, Forster, J, Fisher, K. 2002. Larval Development in an Alabama Population of the Largescale Stoneroller, *Campostoma oligolepis*. Presentation at July 2002 meeting of the American Society of Ichthyologists and Herpetologists, Kansas City, MO. Abstract in Program Book and Abstracts, p. 282.

Hagar, W.G., B. Crosby and B. Stallsmith. 2000. Assessing acid rain sensitive ponds. *Journal of Hazardous Material*, 74:125–131.

Stallsmith, Bruce W. 2002. Faunal survey for 3 Federally listed species: *Etheostoma wapiti* (Boulder Darter), *Hemistena lata* (Cracking Pearlymussel), and *Quadrula intermedia* (Cumberland Monkeyface). Report executed for the North Limestone Treatment Facility on the Elk River, at river mile 31.3, to ensure compliance with Endangered Species Act regulations previous to construction in and along the river at this site. 16 pages.

Stallsmith, B.W. 2003. Growth and Development of a Higher Plant. Great Ideas in Teaching Biology, Volume 4, pages 9-10. Benjamin/Cummings Publishers.

Stallsmith, B.W. 2003. *Fundulus* Killifishes: North American Natives From Every Environment, for Every Taste. *Tropical Fish Hobbyist*. July 2003, pp. 112-116.

Stallsmith, Bruce. 2003. Interim Report, Mussel Relocation Activities, Whitesburg Bridge, Highway 231, Tennessee River, Alabama. Submitted to Bruce Porter, U.S. Fish & Wildlife Service, Daphne, AL. November 2003. 9 pages.

Stallsmith, B.W. 2004. The spotfin killifish, *Fundulus luciae*: a review of its abundance and distribution. *American Currents*, Spring 2004, pages 9-11.

William G. Hagar, Maureen Kelly, Alison Smith and Bruce W. Stallsmith. 2005. Food Web Patterns of *Lepomis macrochirus* and *gibbosus* In Ponds of Different Alkalinity. Presentation and abstract, meeting of the Southern New England Chapter of the American Fisheries Society, Auburn, MA.

Woodall, Amy, Kevin Butler, and Bruce Stallsmith. University of Alabama in Huntsville— Timing of reproductive effort in two shiner species, *Notropis asperifrons* and *N. stilbius*, in Alabama. April 2005. Association of Southeastern Biologists meeting, Florence, Alabama. Abstract published in *Southeastern Biology*, Vol. 52, page 125.

William G. Hagar, Maureen Kelly, Alison Smith and Bruce W. Stallsmith. 2005. Food Web Patterns of Bluegill and Pumpkinseed Sunfish in Ponds of Different Alkalinity. Meeting of American Fisheries Society, Alaska.

Stallsmith, Bruce. 2006. What I Know About Flame Chubs And Who I Told. *American Currents*, Vol. 32, No. 1, pp. 19 and 24.

Kevin Butler, Amy Woodall, Bob Muller and Bruce Stallsmith. 2006. Observations on the reproductive ecology of two shiner species, *Notropis asperifrons* and *N. stilbius*, in an Alabama creek. Presentation and published abstract for the annual meeting of the American Society of Ichthyologists and Herpetologists, New Orleans, Louisiana.

Stallsmith, Bruce. 2007. The Status Of The Flame Chub, *Hemitremia flammea* (Cyprinidae), In Alabama, USA. Oral presentation and published abstract at the Joint Meeting of Ichthyologists and Herpetologists 2007, St. Louis, Missouri.

White, Christian and Bruce Stallsmith. 2007. Does *Dactylogyrus* Sp. Gill Parasite Load Vary In Two Common Stream Cyprinids, *Luxilus chrysocephalus* And *Lythrurus fasciolaris*, In Two Streams In North Alabama, USA? Poster presentation and published abstract at the Joint Meeting of Ichthyologists and Herpetologists 2007, St. Louis, Missouri.

Sosa E., Howard R. E., Eguchi A., Stallsmith B. Sexual Dimorphic patterns of N-methyl-D-aspartate receptor in the CNS of *Lythrurus fasciolaris* (Scarlet Shiners) *Society for Neuroscience* 2007.

Bruce Stallsmith, Kevin Butler, Amy Woodall and Bob Muller. 2007. Observations on the Reproductive Biology of Two *Notropis* Species. *Southeastern Naturalist* 6: 693–704.

Jennifer Schade and Bruce Stallsmith. 2008. Relationship between 11-ketotestosterone and reproductive status in *Lythrurus fasciolaris*. Poster presentation at the 2008 meeting of the Southeastern Fishes Council meeting, Chattanooga, Tennessee.

Bruce Stallsmith, Andrew Adrian, Brittany Homes, Loren Marino, and Lindsay Whittington. 2009. “Reproductive Biology of the Telescope Shiner, *Notropis telescopus*, in Alabama. Talk and published abstract at the 70th Annual Meeting of the Association of Southeastern Biologists, April 1-4, 2009, Birmingham, Alabama.

Kris Stanton and Bruce Stallsmith. 2009. Posting of mitochondrial DNA sequences from the cyt-b gene of several species of *Fundulus* killifish at the National Center For Biotechnology Information databank, <http://www.ncbi.nlm.nih.gov/nuccore/253796555—253796583>.

Stallsmith, B.W. 2010. Distributional Status Of The Flame Chub, *Hemitremia flammea*, in Alabama, USA. *Endangered Species Research* 12: 87–93. Available at <http://dx.doi.org/10.3354/esr00283>.

Brittany Holmes, Lindsay Whittington, Loren Marino, Andrew Adrian and Bruce Stallsmith. 2010. Reproductive Timing Of The Telescope Shiner, *Notropis telescopus*, In Alabama, USA. *American Midland Naturalist* 163: 326–334.

Brittany N Holmes and Bruce W Stallsmith. 2010. Drifting invertebrates of Estill Fork Creek, Jackson County, Alabama. Poster presentation, eighty-seventh meeting of the Alabama Academy of Science, March 30 – April 1, Alabama A&M University, Normal, AL.

Jason X. Feng, Bruce W. Stallsmith, Maria R. Davis, and Gopi K. Podila. 2010. “PCR-enriched Differential Display of Gene Variation.” *Dynamic Biochemistry, Process Biotechnology and Molecular Biology*. **4 (Special Issue 1)**, 1–5.

Andrew Adrian and Bruce Stallsmith. 2010. Seasonality and Reproductive Impact of *Dactylogyrus* Gill Parasites Upon the Telescope Shiner, *Notropis telescopus*. Talk and published abstract at the 2010 Joint Meeting of Ichthyologists and Herpetologists, July 7–July 11, Providence, RI.

Andrew B. Adrian, Brittany Holmes and Bruce W. Stallsmith. 2012. Impact of a Gill Parasite Upon the Minnow, *Notropis telescopus*. *Southeastern Naturalist*, **11(1)**: 35–42.

Jennifer Schade and Bruce Stallsmith. 2012. Investigation of the Relationship Between the Steroid Hormone 11-Ketotestosterone and Reproductive Status in the Fish *Lythrurus fasciolaris*. *American Midland Naturalist*. 268:218–230.

Stefanie Greenleaf, Kelly Hodgskins, and Bruce Stallsmith. 2012. Spawning Seasonality of *Notropis photogenis* Based on Gonadal Somatic Index. Poster presentation and published abstract at the annual meeting of the Southeastern Fishes Council, November 8–9, New Orleans, LA.

Bruce Stallsmith and Brian Thompson. 2012. Observations of *Notropis photogenis* (Silver Shiner) and *Etheostoma zonale* (Banded Darter) in the Flint River, Alabama. *Southeastern Naturalist*, **11(4)**: 779–782.

Bruce Stallsmith. 2013. What is the status of the stippled studfish, *Fundulus bifax*, a killifish endemic to the Tallapoosa River basin? *Endangered Species Research*, **20**: 19–25.

Robert Hanson and Bruce Stallsmith. 2013. Patterns of Gill Parasite Infection of the Tennessee Snubnose Darter, *Etheostoma simoterum*, in Estill Fork, Alabama. *Journal of Freshwater Ecology*, **28**: 385–396.

Brian Thompson and Bruce Stallsmith. 2013. Microhabitat partitioning of an assemblage of darter species within two tributaries of the Tennessee River drainage in Northeast Alabama. Oral presentation at the annual meeting of the Southeastern Fishes Council, November 14–15, Guntersville, AL.

Stallsmith, Bruce; Reina, Gisela; Gonzalez, Rigoberto; Matzkin, Luciano; Million, Kara. 2014. Monogonoidean Gill Parasites of the Poeciliid Fish *Brachyrhaphis episcopi* in Panama. Presenter of oral presentation and published abstract at the Joint Meeting of Ichthyologists and Herpetologists, July 30–August 3, Chattanooga, TN.

Million, Kara; Matzkin, Luciano; Stallsmith, Bruce. 2014. Comparison of Monogonoidean Gill Parasite Infection Levels in Three Darter Species in Mill Creek. Oral presentation and published abstract at the Joint Meeting of Ichthyologists and Herpetologists, July 30–August 3, Chattanooga, TN.

Stallsmith, Bruce; Reina, Gisela; Gonzalez, Rigoberto; Matzkin, Luciano; Million, Kara. 2014. Monogonoidean Gill Parasites of *Brachyrhaphis* species in Panamá. Presenter of oral presentation and published abstract at the 6th Conference of Poeciliid Biologists, September 2–September, University of Exeter, England.

Bruce Stallsmith, Josh Mann and Candice Allen. 2015. Reproductive schedule of the blotched chub (*Erimystax insignis*) in the Flint River of north Alabama. *Southeastern Fishes Council Proceedings*, No. 55. Available at: <http://trace.tennessee.edu/sfcproceedings/vol11/iss5/3>.

Bruce Stallsmith. 2015. What Can I Tell You About the Flint River in Alabama? Invited essay, first in a new series called Locations. *Fisheries*, **40:4**, 148–149, DOI: 10.1080/03632415.2015.1021921.

Stallsmith, Bruce, Million, Kara; Matzkin, Luciano. 2015. Variation in reproductive life history between three *Brachyrhaphis* (Regan 1913) species in Panamá. Presenter of oral presentation and published

abstract at the I Congreso Costarricense y IV Simposio Latinoamericano de Ictiología, November 2–5, 2015, San Jose, Costa Rica.

Bruce Stallsmith and Rachel Bedingfield. 2015. Reproductive development in the Black Darter (*Etheostoma duryi*). *Journal of Alabama Academy of Science*, **86**: 15–27.

Kelly Hodgskins, Stephanie Greenleaf, Jonathan Hillman and Bruce Stallsmith. 2016. Reproductive schedule of the Silver Shiner (*Notropis photogenis*) in the Flint River of Alabama. Presenter of poster and published abstract at the 2016 meeting of the Joint Meeting of Ichthyologists and Herpetologists, July 7–10, New Orleans, LA.

Bruce Stallsmith and Tiffany Bell. 2016. Unusual Female-Biased Sex Ratios in Syntopic Populations of Two Species of *Ulocentra* Darters, *Etheostoma simoterum* and *E. duryi*, in the Flint River of Alabama. Presenter of five minute “lightning talk” and published abstract at the 2016 meeting of the Joint Meeting of Ichthyologists and Herpetologists, July 7–10, New Orleans, LA.

B. Thompson and B. Stallsmith. 2016. Microhabitat partitioning of an assemblage of darter species within two tributaries of the Tennessee River in Alabama. *River Research and Applications*, **32**: 1232–1241. DOI: 10.1002/rra.2947.

Kelly Hodgskins, Stephanie Greenleaf, Jonathan Hillman and Bruce Stallsmith. 2016. Reproductive schedule of the Silver Shiner (*Notropis photogenis*) in the Flint River of Alabama. *Southeastern Fishes Council Proceedings*, **56**: 12–31.

Kara Million, Crissy L. Tarver, Sean Hipe, and Bruce Stallsmith. Does infection by the monogenoidean gill parasite *Aethycteron moorei* affect reproductive ecology of the darter *Etheostoma flabellare* in Mill Creek, Tennessee? *Copeia*. **105(1)**: 75–81.

Bruce Stallsmith, Elizabeth Cantrell and Tiffany Bell. 2017. Seasonal Variation in Lipids Levels of Two Sympatric Species of Snubnose Darter. Presenter of five minute “lightning talk” at the 2017 Meeting of the Southeastern Fishes Council, November 16–17, Chattanooga, TN.

Zeina Sleiman, Corinne Peacher, Joy Garcia, and Bruce Stallsmith. 2017. Observations on the reproductive biology of the darter fish *Etheostoma kennicotti* in response to gill parasite infections. Poster presentation and published abstract at the 2017 meeting of the Southeastern Fishes Council, Chattanooga, TN.

Bruce Stallsmith, Toacca Taylor and Chelsie Smith. 2018. Reproductive timing of the Scarlet Shiner (*Lythrurus fasciolaris*) in Northern Alabama. *Southeastern Fishes Council Proceedings*: No. 58. Available at: <https://trace.tennessee.edu/sfcproceedings/vol1/iss58/2>

Bruce Stallsmith. 2018. Reproductive differences between three species of *Brachyrhaphis* livebearing fishes in Panamá, *Neotropical Biodiversity*, **4:1**, 62–69, DOI: 10.1080/23766808.2018.1467665

Dana Timms and Bruce Stallsmith. 2019. Reproductive schedule of *Campostoma oligolepis* (Teleostei: Leuciscidae) in North Alabama, USA. *Ichthyological Exploration of Freshwaters*. LSID: <http://zoobank.org/urn:lsid:zoobank.org:pub:B199E58E-4B39-4D7E-AFF8-7775ACAB934B>
DOI: <http://doi.org/10.23788/IEF-1120>

Kara M. Million and Bruce W. Stallsmith. 2019. Description of a new species of *Aethycteron* Suriano & Beverley-Burton, 1982 (Monogenea: Ancyrocephalidae) on the gills of the rare striated darter, *Etheostoma striatulum* Page & Braasch (Perciformes: Percidae), from the Duck River, Tennessee, USA. *Systematic Parasitology*, **96**:191–197. <https://doi.org/10.1007/s11230-019-09843-1>

Stallsmith, Bruce W. 2020. Field Guide to Freshwater Fishes of Virginia. Invited Book Review. *Fisheries*, **45**: 164.

Donald G. Cloutman, Andrew B. Adrian, Chris T. McAllister, Bruce W. Stallsmith, Thomas J. Fayton and Henry W. Robison. 2020. Revision of monogeneans parasitising *Lythrurus* (Cypriniformes: Leuciscidae) in eastern U.S.A., with description of *Dactylogyrus lythruri* sp. n. and new records of *Dactylogyrus crucis* Rogers, 1967 (Monogenoidea:Dactylogyridae). *Folia Parasitologica*, **67**: 011.

Manuscripts On Review:

Crissy L. Tarver, Bruce W. Stallsmith 2020. Reproductive biology of *Hybopsis amblops*, the Bigeye Chub, in the Flint River of Alabama. *American Midland Naturalist*, manuscript in revision.

Grants Received:

“The range of the Spotfin Killifish, *Fundulus luciae*, in southeastern Massachusetts.” 1999. Funded by the Natural Heritage & Endangered Species Program of the Massachusetts Division of Fisheries and Wildlife. Research to determine if the Spotfin Killifish, found from Georgia to Rhode Island, is present in Massachusetts in locations beyond the one reported observation on the Rhode Island border. Contract #MAHERSW99-20.

“What is the current status of the stippled studfish, *Fundulus bifax*, a killifish endemic to the Tallapoosa River basin?” 2008. Funded by the Walter F. Coxe Research Fund of Birmingham Audubon; \$1500.

“Strengthening the Education Pipeline for Minority Wildlife Students using Experiential Learning, Mentoring, and Assessment of Student Learning”.

U.S. Department of Agriculture, 1890 Capacity Building Grant.

Amount of grant: \$299,165; sub-contracted portion of grant: \$25,000.

Submitted March 5, 2012. Status: Grant approved and active, 09/01/2012 through 08/31/2014.

“A survey of the western Azuero peninsula of Panamá for *Cynodonichthys* species”. 2015. Funded by the Georgoe Maier Fund of the American Killifish Association; \$2020.

Awards Received:

Bruce Stallsmith and Rachel Bedingfield. (2015). Reproductive Development in the Black Darter (*Etheostoma duryi*). *Journal of the Alabama Academy of Science*, *86*, 15-28, was selected to receive the Carmichael Award for 2017 for articles published in journal in Volume 86 in 2015. This accomplishment was recognized at the 94th annual meeting of the Alabama Academy of Science, February 22 – 24, 2017 at University of South Alabama.

College of Science Teaching Excellence Award 2004. University of Alabama in

Huntsville.**Foundation Teaching Award 2003.** Annual distinguished teaching award at the University of Alabama in Huntsville.

Mentor of the Year, 2003, UAH Louis Stokes Alliance for Minority Participation.

Bettina Hall Harrison Teaching Award 1995 Awarded to a graduate student for excellence in teaching.

Meeting Organization:

North American Native Fishes Association Annual Meeting, June 2003. UAH hosted the annual three-day meeting of NANFA. Activities included a day of invited speakers, and a day of planned field trips around northern Alabama to view indigenous freshwater fishes.

Description of Courses Taught:

BYS 119 Principles of Biology University of Alabama in Huntsville Introductory biology course required of life science majors; also fulfills general degree requirements of a laboratory science course. Covers the biology of the cell, genetics, and molecular biology. August 1999–present, including online.

BYS 120 Organismal Biology University of Alabama in Huntsville Introductory biology course required for life science majors; also fulfills general degree requirements of a laboratory science course. Covers the structure and function of whole organisms, primarily animals and plants, and how they make their living. August 1999–present.

BYS 300 Cell Biology University of Alabama in Huntsville Core curriculum class on structure and function of cells, and developmental biology. Taught the developmental biology segment covering fertilization, gastrulation, and organogenesis of Craniata.

BYS 315 Ichthyology University of Alabama in Huntsville Advanced biology course to examine the evolutionary history and current diversity of fishes. Includes major laboratory component.

BYS 317 Vertebrate Zoology University of Alabama in Huntsville Advanced biology course to examine the evolution of vertebrate animals and what patterns of diversity exist today. Includes major laboratory component.

BYS 318 Vertebrate Reproduction University of Alabama in Huntsville Advanced biology course to examine reproductive behaviors, anatomy and physiology of vertebrate animals in a phylogenetic context. Readings are mostly drawn from current literature. 2004–present, once annually.

BYS 490 Senior Seminar University of Alabama in Huntsville Capstone seminar course required by senior Biology majors. Considers aspects of working as a biologist such as presenting 15-minute talks, scientific writing and writing a professional CV.

FYE 101 Freshman Experience University of Alabama in Huntsville A one-credit course meant to orient first semester to the UAH campus, and what is broadly expected of them as science majors.

Concepts in Science Montserrat College of Art. A non-majors science course for art students studying for a BFA degree. Mostly biology, with an emphasis on the nervous system and perception. January 1996–May 1999.

Environmental Issues: Global and Local Montserrat College of Art A non-majors course for art students examining trends and questions in the environment. January 1998–May 1999.

Quantitative Reasoning, Science, and Design Montserrat College of Art Team-taught course addressing methods and goals of the organization and presentation of numerical data. Topics include cemetery demography, Fibonacci series, genomics and descriptive statistics. January–May 1999.

Biology 1 (General Biology with lab) Roxbury Community College. Introductory biology course required of life science majors; also fulfills general degree requirements of a laboratory science course. Covers the biology of the cell, genetics, plant biology and the fungi. September 1997–May 1999.

Biology 12A, 12B (lab sections); 14A, 14B (lecture sections) Brandeis University. An introductory biology course with laboratory for science majors, offered in summer school and continuing education. Lecturer, lab instructor and course coordinator. June–August 1997, 1998, 1999.

Biology 101 (Basis of Life) University of Massachusetts Boston (and all following). An overview for students in the humanities and social sciences of those features which distinguish living organisms from non-living things. Lecturer and course organizer for the day section of 90 students. Lecturer for Fall 1993, Spring 1995.

Biology 111, 112 (Freshman Biology) An integrated course stressing the principles of biology. Required for Biology majors. Lecturer; formerly lab instructor. 1995–1997.

Biology 200 (Coastal Ecology) A five-week summer course offered at a field station on Nantucket. Introduction to coastal processes and biota for intermediate-level biology majors. Topics covered included biological oxygen demand, benthic ecology, plankton dynamics, chemistry of natural waters, invertebrate zoology. Instructor for first 2 weeks of the course, June 1994 and June 1995; guest lecturer 1996–1998.

Biology 211 (Physiology of Organisms) An overview of the physiological mechanisms used by plants and animals. Included photosynthesis, nervous system, osmoregulation, respiration and circulation. Requirement for Biology majors. Lecturer for Fall 1994.

Vertebrate Zoology Module, Amazing Amphibians. Class for elementary school teachers to learn how to teach their students about amphibians at the fifth grade level. Course offered through HASP (Hands-On Academic Science Program), Huntsville, AL. Co-taught with a Scottsboro, AL, public school teacher. April – May 2002.

Inquiry Based Teaching Methods. An intensive summer school course team taught with Education and Physics faculty to demonstrate course content for newly developed K-12 science courses. Summers 2005–2007.

Textbooks published:

Laboratory Manual for Principles of Biology, BYS 119, by Bruce W. Stallsmith. Laboratory manual for first semester introductory biology class at the University of Alabama in Huntsville. Fountainhead Press, 2018.

Laboratory Manual for Organismic Biology, BYS 120, by Bruce W. Stallsmith. Laboratory manual for second semester introductory biology class at the University of Alabama in Huntsville. Fountainhead Press, 2018.