



Douglas M. McElroy
Office of Academic Affairs
Western Kentucky University
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PRESENT POSITIONS:

Assistant Vice-President for Academic Affairs, Academic Enrichment and Effectiveness 2008-
Professor, Department of Biology 2004-

EDUCATION:

Ph.D., University of Maine, Department of Zoology 1992
Genetic and morphological analysis of trophic differentiation in two Lake Malawi
cichlid fishes and their hybrids.
M.S., University of Maine, Department of Zoology 1988
Reproductive behavior of cichlid fishes: evaluation of the potential for sexual selection.
B.S., Southampton College of Long Island University 1984
Marine Science major, biology concentration

ADDITIONAL TRAINING:

International Conference on Critical Thinking, Institute for Critical Thinking, Berkeley, CA. 2006, 2007
Summer Institute in Statistical Genetics, North Carolina State University, Raleigh, NC. 2002
III Morphometrics Workshop, National Science Foundation, Madrid, Spain. 1991

PROFESSIONAL EXPERIENCE:

Assistant to the Provost, Western Kentucky University 2005-2008
Associate Professor of Biology, Western Kentucky University 1999-2004
Director, University Honors Program, Western Kentucky University 1998-2005
Assistant Director, University Honors Program, Western Kentucky University 1997-1998
Assistant Professor of Biology, Western Kentucky University 1993-1999
Postdoctoral Research Associate, Department of Zoology, Arizona State University 1992-1993
Visiting Instructor in Biology, Colby College, Waterville, ME 1991

AWARDS AND RECOGNITION:

Included Biography, AcademicKeys Who's Who in Higher Education Administration 2008
Included Biography, Marquis Who's Who in America 2008
Included Biography, American Men and Women of Science 2007
Ogden College Award for Public Service, Western Kentucky University 2006
Honorary Member, Golden Key National Honor Society 1998

MEMBERSHIPS AND AFFILIATIONS:

Association of American Colleges and Universities
American Association of State Colleges and Universities
Foundation for Critical Thinking
WKU Center for Biodiversity Studies
WKU Biotechnology Center

UNIVERSITY LEADERSHIP AND SERVICE:

Administrative Lead, SACS Quality Enhancement Plan Implementation	2005-
Institutional Representative, Council on Postsecondary Education Program Productivity Review	2008-2009
Institutional Representative, Council on Postsecondary Education College Level Learning Assessment	2008-2009
Chair, 120-Hour Degree Program Study Group	2008
Chair, Outcomes Assessment Committee	2008-
Academic Affairs Liaison, Academic Program Review Committee	2008-
Co-Chair, Provost's Initiatives for Excellence Review Committee	2008-
Co-Chair, Critical Thinking Scholars Initiative	2007-
Chair, Student Engagement Activities Transcript Implementation Team	2008-
Coordinator, American Democracy Project	2006-
Member, College Readiness Working Group	2008-
Member, General Education Review Task Force	2008-
Member, Community Partnerships Incentive Award Program Review Committee	2008-
Member, Regional Stewardship Plan Development Team	2006-
Member, Cultural Enhancement Series Planning Committee	2000-

PREVIOUS LEADERSHIP AND SERVICE ACTIVITIES:

Chair, Department of Biology QEP Implementation Committee	2006-2008
Chair, Department of Biology Continuance, Tenure, Promotion and PTR Review Committee	2000
Chair, Department of Biology Assessment Committee	1999-2005
Chair, Department of Biology Faculty Search Committees (4)	1999-2003
Chair, University Honors Committee	1998-2005
Chair, University Student Awards Committee	1997-2002
Chair and Member, WKU Student Research Conference Organizing Committee	1994-2004
Member, Provost's Initiatives for Excellence Review Committee	2005-2008
Member, University Honors Program Director Search Committee	2005
Member, Quality Enhancement Plan Steering Committee	2003-2005
Faculty Representative, Harry S. Truman Scholarship Program	2003-2005
Member, Ogden College Dean's Advisory Council	2002-2004
Member, Department of Biology Scheduling and Load Committee	2001-2008
Member, Department of Biology <i>ad hoc</i> Curriculum Review Committee	2000-2001
Alternate Member, University Senate	2000-2001
Member, Biotechnology Center Strategic Planning Committee	2000
Member, Department of Biology Tenure and Promotion Committee	1999-
Member, Center for Biodiversity Studies Strategic Planning Committee	1998-1999
Faculty Representative, Barry M. Goldwater Scholarship Program	1997-2005
Member, Department of Biology Strategic Planning Committee	1996-2008
Member, Department of Biology Space and Facilities Committee	1996-1997
Member, New Level Faculty Evaluation Task Force	1995
Member, Department of Biology Faculty Search Committees (3)	1994-1998

PROFESSIONAL SERVICE:

Member, Kentucky Engagement Conference Organizing Committee	2008-
<i>ex officio</i> Member, WKU Regional Stewardship Advisory Council	2007-
Member, ADP/Carnegie/NYTimes Political Engagement Project Implementation Team	2007-

MAJOR STRATEGIC AND DEVELOPMENT INITIATIVES:

The Washington Center Higher Education Civic Engagement Award. Application from Western Kentucky University. Not awarded.	2009
Learn and Serve America President's Higher Education Community Service Honor Roll. Proposal from Western Kentucky University (General Community Service and Special Focus Area). Recognized.	2008
Association of American Colleges and Universities General Education Institute. Application from Western Kentucky University. Accepted.	2008
Learn and Serve America President's Higher Education Community Service Honor Roll. Proposal from Western Kentucky University (General Community Service). Recognized with Distinction.	2007
Critical Thinking Scholars Initiative: a Three-Year Professional Development Program for Faculty at Western Kentucky University. \$70,000. Approved and implemented.	2007
Guide to Service Learning Colleges and Schools. Application from Western Kentucky University. Accepted.	2007
Carnegie Classification for Community Engagement. Proposal from Western Kentucky University. D. McElroy and D. George, primary authors. Awarded (Curricular Engagement and Outreach and Partnerships).	2006
Kentucky Council on Postsecondary Education Regional Stewardship Program. Infrastructure Plan for Western Kentucky University. D. George, K. Phelps and D. McElroy, primary Authors. \$415,000. Approved and funded.	2006
Americorps VISTA Program (via Kentucky Campus Compact). Proposal for two VISTA Volunteers to support social responsibility and regional stewardship initiatives at Western Kentucky University. \$22,000 for each of three years. Awarded.	2006
Association of American Colleges and Universities Core Commitments in Social Responsibility Initiative. Proposal from Western Kentucky University. \$50,000. Not funded.	2006
Southern Association of Colleges and Schools Quality Enhancement Plan Initiative. Engaging Students for Success in a Global Society: a Quality Enhancement Plan for Western Kentucky University. D. McElroy, R. Bowker and K. Laves, primary authors. Approved.	2005
Unit Productivity Award Program. Proposals from the Department of Biology (2). \$7000 each. Awarded.	2005-2006
[Donor] Institute for Biotechnology and Conservation. Proposal from the Department of Biology. \$13,000,000. Submitted for consideration.	2002
[Donor] Scholar-Teacher Program. Proposal from the University Honors Program. \$6,000,000. Submitted for consideration.	2001
Guidelines for Performance Appraisal, Continuance, Tenure, Promotion and Post-Tenure Review of Faculty. Department of Biology. D. McElroy, L. Alice, K. Crawford, K. Doerner and T.K. Philips, authors. Adopted and implemented.	2000
Reinforcing the Spirit: Peer Tutoring Initiative. University Honors Program. \$10,000 per year. Awarded and implemented.	2000-2001
Strategic Plan 1998-2003. University Honors Program. Adopted and implemented.	1998
Center for Biodiversity Studies. Draft Proposal and Implementation Plan. D. McElroy and Z. Murrell, authors. Approved and established.	1997

RESEARCH GRANTS, AWARDS AND PROPOSALS (EXTERNAL):

US EPA P3 Program (National Student Design Competition for Sustainability Focusing on People, Prosperity and the Planet). Sustainable Development of Wildlife Resources in a Rural Community in Kenya. M. Stokes and D. McElroy, co-PIs. \$21,650. Funded.	2005
NSF EPSCoR Summer Research Program. Impact of Bushmeat Utilization on Conservation of Tropical African Game. D. McElroy and M. Stokes, co-PIs. \$23,455. Not funded.	2004
Kentucky Justice Cabinet Edward Byrne Memorial Fund Program. Developing New Alliances. L. Sudkamp, J. Warnecke, K.C. Doerner and D. McElroy, co-PIs. \$786,362. Not funded.	2003
NSF Research Infrastructure Improvement Grant Program. Science- and Technology-based Natural Resource Management. M. Stokes, A. Meier, S. Grubbs, D. McElroy and R. Mahmood, co-PIs. \$2,800,000. Not funded.	2003
NSF EPSCoR Research Start-Up Fund Program. Functional Morphologist – Department of Biology, Western Kentucky University. D. McElroy, proposal author. \$75,000. Funded.	2002
NSF EPSCoR Research Enhancement Grant program. Spectral Sensitivity and Tuning of the ERG b- and d-waves in Lake Malawi Cichlid Fishes: Associations with Coloration, Habitat and Trophic Differences among Species. D. McElroy and J. Bilotta, co-PIs. 440,738. Funded.	2002
Legislative Funding Request. Resurgence of Black Bear in Kentucky: Feasibility and Genetic Monitoring of Populations. B.J. Furman, D. McElroy and K.C. Doerner, co-PIs. \$1,500,000. Not funded.	2000
NSF EPSCoR Research Enhancement Grant Program. Development of PCR-Based Standards for Identification of Kentucky White-Tailed Deer (<i>Odocoileus virginianus</i>) for Law Enforcement. D. McElroy, K.C. Doerner, B.J. Furman and D. Perkins, co-PIs. \$36,779. Funded.	2000
National Geographic Society Grants for Research. Subterranean Biogeography: Population Structure and Environmental Vulnerability of Amblyopsid Cavefishes. D. McElroy, PI. \$26,220. Not funded.	1997

RESEARCH GRANTS, AWARDS AND PROPOSALS (INTERNAL):

Western Kentucky University Action Agenda Fund. \$10,000. Not funded.	2003
Western Kentucky University Faculty Scholarship Fund. \$1,000. Funded.	2002
Western Kentucky University Summer Research Fellowships (2). \$5,000 each. Funded.	1995, 1996
Western Kentucky University Academic Excellence Fund. With Z. Murrell. \$5,000. Funded.	1995
Western Kentucky University President's Special Grant Fund (3). \$2,750, \$1,600, \$2,229. Funded.	1995-1997

PUBLICATIONS (ASTERISKS INDICATE STUDENT CO-AUTHORS):

- Marcus, J.M., T.M. Hughes, D. McElroy, and R.E. Wyatt. 2009. Engaging first year undergraduates in hands-on research experiences: the Upper Green River Barcode of Life Project. *Journal of College Science Teaching*. in press.
- Marcus, J.M., D.D. Bell*, A.N. Bryant*, E.C. Burden*, M.E. Carter*, T.J. Cataldo*, K.R. Clark*, H.E. Compton*, L.S. DeJarnette*, V.B. Faulkner*, R.W. Gregory*, J.R. Hall*, L.N. Houchin*, M.E. Hudson*, P.F. Jenkins*, J.M. Jordan*, B.K. Logan*, N.R. Long*, H.F. Maupin*, S.R. McIntyre*, J.K. Mitchell*, J.K. Mobley*, A.N. Nehus*, B.N. Potts*, C.R. Read*, K.N. Slinker*, C.E. Thompson*, T.M. Hughes, D. McElroy, and R.E. Wyatt. 2009. The Upper Green River Barcode of Life Project. *Journal of the Kentucky Academy of Science*. 70: 75-83.
- Doerner, K.C., W. Braden*, J. Cork*, T. Cunningham*, A. Rice*, B.J. Furman and D.M. McElroy. 2005. Population genetics of resurgence: white-tailed deer in Kentucky. *J. Wildlife Mgmt.* 69: 345-355.
- Garner, L.M. *, C. Anderson*, D. McElroy and J. Bilotta. 2003. Differences in spectral sensitivity of ERG b- and d-waves in three African cichlid fish species. *Investigative Ophthalmology and Visual Science* 44: 4169.
- Douglas, M.E., M.R. Douglas, J.M. Lynch and D.M. McElroy. 2001. Use of geometric morphometrics to differentiate *Gila* (Cyprinidae) within the upper Colorado River basin. *Copeia* 2001: 390-401.
- Hoyt, R.D., D. McElroy and D. Stiles. 2001. Spatio-temporal assessment of stream fish communities adjacent to an agricultural best-management practices operation. pp. 101-114 in Chester, E.W. and A.F. Scott (eds.), *Proceedings of the Ninth Symposium on the Natural History of the Lower Tennessee and Cumberland River Valleys*. Center for Field Biology, Austin Peay State University, Clarksville, TN.
- Seyoum, S., M.D. Tringali, T.M. Bert, D. McElroy and R. Stokes. 2000. Analysis of genetic population structure in red drum, *Sciaenops ocellatus*, based on mtDNA control region sequences. *Fishery Bull.* 98: 127-138.
- Bilotta, J., J. Cassidy*, D. McElroy, I. Kornfield and E.C. Davis*. 2000. Spectral sensitivity of the ERG b- and d-waves of an African cichlid species. *Investigative Ophthalmology and Visual Science* 42: S440.
- McElroy, D. 1999. Evolutionary biology: overview. pp. 195-202 in Knight, J. (ed.), *Encyclopedia of Genetics: Basics and Applications*. Salem Press, Pasadena, CA.
- Stuck, J.* and D. McElroy. 1999. Genetic counseling. pp. 239-244 in Knight, J. (ed.), *Encyclopedia of Genetics: Basics and Applications*. Salem Press, Pasadena, CA.
- Davis, C.D., L. Brooks*, C. Calisi*, B.J. Bennett* and D.M. McElroy. 1998. Beneficial effect of selenium supplementation during murine infection with *Trypanosoma cruzi*. *J. Parasit.* 84: 1274-1277.
- McElroy, D.M., J.A. Shoemaker* and M.E. Douglas. 1997. Discriminating *Gila robusta* and *Gila cypha*: risk assessment and the Endangered Species Act. *Ecol. Appl.* 7: 958-967.
- Ore, S.G.* , D.M. McElroy and R.D. Hoyt. 1997. Acute low pH impairs chemoreception and feeding performance in larval fathead minnows (*Pimephales promelas*). *Mar. Fresh. Behav. Physiol.* 30: 1-17.
- McElroy, D.M. and M.E. Douglas. 1995. Patterns of morphological variation among endangered populations of *Gila robusta* and *G. cypha* (Teleostei: Cyprinidae) in the upper Colorado River basin. *Copeia* 1995: 636-649.
- McElroy, D.M. and I. Kornfield. 1993. Novel jaw morphology in hybrids between *Pseudotropheus zebra* and *Labeotropheus fuelleborni* (Teleostei: Cichlidae) from Lake Malawi, Africa. *Copeia* 1993: 933-945.
- Dunnigan, B.* , D.M. McElroy and M.E. Douglas. 1993. Sexual dimorphism and morphological variation in *Cichlasoma minckleyi* from Cuatro Ciénegas basin, Mexico. *Proc. Des. Fish. Council XXV*: 45-46.
- McElroy, D., P. Moran, E. Bermingham and I. Kornfield. 1992. REAP: an integrated environment for the manipulation and phylogenetic analysis of restriction data. *J. Hered.* 83: 157-158.
- McElroy, D.M., I. Kornfield and J. Everett*. 1991. Coloration in African cichlids: diversity and its constraints in Lake Malawi endemics. *Neth. J. Zool.* 41: 250-268.
- McElroy, D., P. Moran, E. Bermingham and I. Kornfield. 1991. REAP: The Restriction Enzyme Analysis Package. Version 4.0. Department of Zoology, University of Maine. 40 pp. + diskette.

- McElroy, D.M. and I. Kornfield. 1990. Sexual selection, reproductive behavior, and speciation in the mbuna species flock of Lake Malawi (Pisces: Cichlidae). *Envir. Biol. Fishes* 28: 273-284.
- Kornfield, I., S.M. Bogdanowicz and D.M. McElroy. 1987. Inheritance of adenosine deaminase in Malawi cichlids. *Isozyme Bull.* 20:10.
- Shiroya, T., D. McElroy and B.M. Sutherland. 1984. An action spectrum for photoreactivating enzyme in sea urchin eggs. *Photochem. Photobiol.* 40: 749-751.

MANUSCRIPTS IN REVIEW AND PREPARATION (ASTERISKS INDICATE STUDENT COAUTHORS):

- Kimwele, C.N., E. Wambwa, D. McElroy and M. Stokes. East African wildlife game species identification using partial mitochondrial DNA sequences. *Animal Conservation*. in review.
- McElroy, D., J. Lewis, A. Davis and B. Burch. Evolutionary perspectives on curricular change. *Liberal Education*. in preparation.
- Vied, S.*, R.D. Hoyt and D. McElroy. Sliding window analysis of variation in stream fish community structure. *Copeia*. in preparation.
- Reneau, P.*, I. Kornfield and D. McElroy. Genetic control of coloration in the *Metriaclima* species complex (Teleostei: Cichlidae). *Copeia*. in preparation.
- Bilotta, J., L.M. Garner, C. Anderson and D. McElroy. Spectral sensitivity of ERG b- and d-waves in the cichlid fish species *Aulonocara jacobfreibergi* from lake Malawi, Africa. in preparation.

INVITED SYMPOSIUM PRESENTATIONS (ASTERISKS INDICATE PRESENTERS):

- McElroy, D.M.* and M.E. Douglas. 1993. Morphological variation among populations of endangered Colorado basin *Gila robusta* and *G. cypha*: are there forests amid the trees? *Conservation Biology of Western Fishes*. Society for Conservation Biology, Tempe, AZ.
- McElroy, D.M.* and I. Kornfield. 1991. Genetic control of morphology in cichlid fishes: does a little go a long way? *Labroid Evolution*. American Society of Ichthyologists and Herpetologists, New York, NY.

ORAL AND POSTER PRESENTATIONS (ASTERISKS INDICATE PRESENTERS):

- McElroy, D.* and B. Cobb. 2009. Demonstrating statistically significant growth of a student engagement culture at WKU. American Democracy Project Annual Meeting, American Association of State Colleges and Universities, Baltimore, MD.
- Burch, B.*, Dale, M.*, B. Cobb, and D. McElroy*. 2009. Institutionalizing civic engagement through a performance-based tuition-revenue model. American Democracy Project Annual Meeting, American Association of State Colleges and Universities, Baltimore, MD.
- George, D.*, P. Markham*, D. McElroy* and B. Burch*. 2009. Assessing community/public service at a public institution. Commission on Colleges Annual Meeting, Southern Association of Colleges and Schools, Atlanta, GA.
- McElroy, D.*, J. Lewis*, A. Davis, and B. Burch*. 2008. Endemism and inertia vs. innovation: cautionary tales in civic engagement. American Democracy Project Annual Meeting, American Association of State Colleges and Universities, Snowbird, UT.
- Bruni, J.*, D. McElroy* and B. Burch*. 2008. Addressing the learning and scholarly dimensions of civic engagement. American Democracy Project Annual Meeting, American Association of State Colleges and Universities, Snowbird, UT.
- McElroy, D. and B. Burch*. 2007. Civic engagement and student learning: moving from involvement to impact. American Democracy Project Annual Meeting, American Association of State Colleges and Universities, Philadelphia, PA.

- Bruni, J. *, D. George* and D. McElroy*. 2007. The Engagement Research Fund Program. Western Kentucky University Engaging the Spirit Conference, Bowling Green, KY.
- McElroy, D. 2006. Linking NSSE, WKUSES and other acronyms in a multivariate assessment of WKU's QEP student learning outcomes. Kentucky Council on Postsecondary Education Faculty Development Conference, Lexington, KY.
- McElroy, D. 2005. Shaping QEP implementation for your students: a deconstructionist model for building program expectations around engagement. Western Kentucky University Engaging the Spirit Conference, Bowling Green, KY.
- McElroy, D. 2005. Neither Scylla nor Charybdis: exploring a common understanding of QEP goals and expectations. Western Kentucky University Engaging the Spirit Conference, Bowling Green, KY.
- Kimwele, C.N., E. Wambwa, M. Stokes and D. McElroy*. 2005. Molecular forensic identification of East African game species. Society for Integrative and Comparative Biology, San Diego, CA.
- Olsen, C. *, L.M. Garner, J. Bilotta and D. McElroy*. 2004. Spectral sensitivity of ERG b- and d-waves in African cichlid fishes: comparisons with habitat, ecology and phylogeny. Society for Integrative and Comparative Biology, New Orleans, LA.
- McElroy, D. *, L.M. Garner, C. Anderson and J. Bilotta. 2003. Spectral sensitivity of ERG b- and d-waves in African cichlid fishes: early comparisons. Society Kentucky Academy of Sciences, Bowling Green, KY.
- Garner, L.M. *, C. Anderson, D. McElroy and J. Bilotta. 2003. Differences in spectral sensitivity of ERG b- and d-waves in three African cichlid fish species. Association for Research in Vision and Ophthalmology, Fort Lauderdale, FL.
- Doerner, K.C., W. Braden, J. Cork, T. Cunningham, A. Rice, B.J. Furman and D. McElroy*. 2002. Population genetics of resurgent white-tailed deer (*Odocoileus virginianus*) in Kentucky. Western Kentucky University Center for Biodiversity Studies, Bowling Green, KY.
- Doerner, K.C., W. Braden*, J. Cork, T. Cunningham*, A. Rice*, B.J. Furman and D. McElroy. 2001. Microsatellite DNA allele frequencies and population structure in Kentucky white-tailed deer (*Odocoileus virginianus*). Society for the Study of Evolution, Knoxville, TN.
- Cork, J.* and D. McElroy. 2001. Type I error rates in Monte Carlo randomization tests of population structure from microsatellite data. Society for the Study of Evolution, Knoxville, TN.
- Hoyt, R.D. *, D. McElroy and D. Stiles. 2001. Long-term assessment of stream fish communities adjacent to an agricultural best-management practices operation. Symp. Nat. Hist. Lower Tenn. Cumb. River Valleys, Clarksville, TN.
- McElroy, D. *, P. Reneau and I. Kornfield. 2000. Inheritance and evolution of dorsal fin coloration in Lake Malawi cichlid fishes. Society for the Study of Evolution, Bloomington, IN.
- Bilotta, J. *, J. Cassidy, D. McElroy, I. Kornfield and E.C. Davis. 2000. Spectral sensitivity of the ERG b- and d-waves of an African cichlid species. Association for Research in Vision and Ophthalmology, Fort Lauderdale, FL.
- Chandler, K.A., D.M. McElroy*, R.D. Hoyt and D. Stiles. 1998. Biomass vs. abundance measures of stream fish community structure. American Society of Ichthyologists and Herpetologists, Guelph, ON.
- Hoyt, R.D., D.M. McElroy* and D. Stiles. 1997. Spatial and temporal variation in stream fish communities adjacent to an agrarian enterprise. American Society of Ichthyologists and Herpetologists, Seattle, WA.
- McElroy, D.M. *, J.A. Shoemaker and M.E. Douglas. 1996. Discrimination of *Gila robusta* and *Gila cypha*: a classic 'producer's vs. consumer's risk' gambit. American Society of Ichthyologists and Herpetologists, New Orleans, LA.
- Ore, S.G., R.D. Hoyt* and D.M. McElroy. 1996. Acute low pH impacts chemoreception and feeding performance in larval fathead minnows *Pimephales promelas*. American Society of Ichthyologists and Hepetologists, New Orleans, LA.

- McElroy, D.M.* and I. Kornfield. 1994. Coloration and ecological niche complementarity in African cichlid fish communities. American Society of Ichthyologists and Herpetologists, Los Angeles, CA.
- Lynch, J.M.*, D.M. McElroy, and M.E. Douglas. 1994. 'Every picture tells a story': geometric morphometrics and variation in upper Colorado River chub. American Society of Ichthyologists and Herpetologists, Los Angeles, CA.
- McElroy, D.M.* and M.E. Douglas. 1993. Morphological variation among populations of endangered Colorado basin *Gila robusta* and *G. cypha*: are there forests amid the trees? American Society of Ichthyologists and Herpetologists, Austin, TX.
- Dunnigan, B., D.M. McElroy and M.E. Douglas*. 1993. Sexual dimorphism and morphological variation in *Cichlasoma minckleyi* from Cuatro Ciénegas basin, Mexico. Desert Fishes Council, Monterrey, MX.
- McElroy, D.M.*, P. Morna, E. Bermingham and I. Kornfield. 1991. REAP: an integrated environment for the manipulation and phylogenetic analysis of restriction data. American Society of Ichthyologists and Herpetologists, New York, NY.

COURSES AND LABORATORIES TAUGHT:

Biology 334	Animal Behavior	2004-2008
Biology 430/430G	Evolution: Theory and Process	1994-2008
Biology 524	Evolutionary and Ecological Genetics	1999-2007
Biology 283	Introductory Biostatistics with Laboratory	1995-2007
Biology 483/483G	Multivariate Methods in Biology	1994-2008
Biology 475 (Honors)	Biology in a Social Context: Galapagos and Ecuador (w/ K.C. Doerner)	2007
Biology 475	Wildlife, Cultural and Economic Diversity of Kenya (w/ M. Stokes)	2005
Biology 327	Genetics (1 three-week module: Forensic DNA Analysis and QTL Mapping)	2003
Biology 501	DNA Forensics for Teachers	2002
Biology 522	Systematics and Evolution (w/ M. Stokes and C. Rinehart)	1998
Biology 503	Contemporary Research in Biology	1998
Biology 501	Perspectives in Biology: Development and Evolution (w/ K. Balak)	1997
Biology 675	Seminar: Molecular Markers in Evolution	1995
Biology 398	Senior Undergraduate Seminar	1995
Biology 598	Graduate Seminar	1994
Biology 115	Introduction to Biology (Non-Majors)	1994-1996
Biology 120	Biological Concepts (Majors; includes Honors Sections)	1994-2004
Biology 225	General Zoology Laboratory	1994-1997
Biology 131	Human Anatomy and Physiology with Laboratory (Non-Majors)	1993-1994
Honors Biology 175	University Experience in Biology	2006-2007
Honors Colloquium 200	Philosophical and Physical Taoism	2001-2002
Honors Colloquium 201	Pseudoscience of Intellectual Racism	1998
Honors Colloquium 201	Creation Science and Evolution	1997
Honors Colloquium 100	Introduction to Honors	1998
Biology 279	Genetics (Colby College)	1991

PROFESSIONAL REFERENCES:

Dr. Barbara G. Burch
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Western Kentucky University
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