

# Geoffrey W. Gearner

# Curriculum Vitae

Professor of Biology  
Department of Biology and Chemistry  
First Tenure Track Date: **17 August 1990**  
Promotion to Associate Professor: **August 1994**  
Promotion to Full Professor: **August 2002**  
Specializations: Immunology, Microbiology and Parasitology

## EDUCATION

**Ph.D., Microbiology**, Texas A&M University, December 1990. Dissertation Title: Studies on the Adsorption of Host Antigens by *Schistosoma mansoni*".

**B.S., Biology**, Stephen F. Austin State University, Nacogdoches, Texas, August 1981.

## TEACHING

### Course Loads

#### Fall 2010

<u>Course Taught</u>	<u>Enrollment</u>	<u>Credit hr</u>	<u>Contact hr</u>	<u>Load</u>
BIOL 171 Prin. Biology	47	4	3	3.00
BIOL 171L Prin. Biology Lab	25	0	2	1.45
BIOL 317 Prin. Microbiology	47	4	2	2.40
BIOL 317L Microbiology Lab	23	0	4	2.90
BIOL 317L Microbiology Lab	24	0	4	2.90
<b>Total</b>	<b>166</b>	<b>8</b>	<b>15</b>	<b>12.65</b>

#### Spring 2010

<u>Course Taught</u>	<u>Enrollment</u>	<u>Credit hr</u>	<u>Contact hr</u>	<u>Load</u>
BIOL 317 Prin. Microbiology	45	4	2	2.40
BIOL 317L Microbiology Lab	21	0	4	2.90
BIOL 317L Microbiology Lab	24	0	4	2.90
BIOL 424/624 Immunology	16	3	2	2.40
BIOL 424L/624L Immunology Lab	16	0	2	1.45
<b>Total</b>	<b>122</b>	<b>7</b>	<b>14</b>	<b>12.05</b>

#### Fall 2009

<u>Course Taught</u>	<u>Enrollment</u>	<u>Credit hr</u>	<u>Contact hr</u>	<u>Load</u>
BIOL 171 Prin. Biology	52	4	3	3.00
BIOL 171L Prin. Biology Lab	23	0	2	1.45
BIOL 317 Prin. Microbiology	31	4	2	2.40
BIOL 317L Microbiology Lab	22	0	4	2.90
BIOL 317L Microbiology Lab	9	0	4	2.90
<b>Total</b>	<b>137</b>	<b>8</b>	<b>15</b>	<b>12.65</b>

Spring 2009

<u>Course Taught</u>	<u>Enrollment</u>	<u>Credit hr</u>	<u>Contact hr</u>	<u>Load</u>
BIOL 317 Prin. Microbiology	19	4	2	2.40
BIOL 317L Microbiology Lab	19	0	4	2.90
BIOL 443/6643 Gen. Parasit .	20	3	2	2.40
BIOL 443L/643L Gen. Para. Lab	20	0	2	1.45
BIOL 671 Graduate Seminar	5	1	1	1.20
BIOL 699 Thesis	1	6	6	1.00
<b>Total</b>	<b>84</b>	<b>14</b>	<b>17</b>	<b>11.35</b>

Fall 2008

<u>Course Taught</u>	<u>Enrollment</u>	<u>Credit hr</u>	<u>Contact hr</u>	<u>Load</u>
BIOL 217L Med. Micro. Lab	5	0	2	1.45
BIOL 317 Prin. Microbiology	46	4	2	2.40
BIOL 317L Microbiology Lab	23	0	4	2.90
BIOL 317L Microbiology Lab	23	0	4	2.90
Reassigned Time (Gen. Ed.)				3.00
<b>Total</b>	<b>97</b>	<b>4</b>	<b>12</b>	<b>12.65</b>

Spring 2008

<u>Course Taught</u>	<u>Enrollment</u>	<u>Credit hr</u>	<u>Contact hr</u>	<u>Load</u>
BIOL 317 Prin. Microbiology	19	4	2	2.40
BIOL 317L Microbiology Lab	19	0	4	2.90
BIOL 424/624 Immunology	20	3	2	2.40
BIOL 424L/624L Immunology Lab	20	0	2	1.45
BIOL 671 Graduate Seminar	5	1	1	1.20
BIOL 699 Thesis	1	6	6	1.00
<b>Total</b>	<b>84</b>	<b>14</b>	<b>17</b>	<b>11.35</b>

Fall 2007

<u>Course Taught</u>	<u>Enrollment</u>	<u>Credit hr</u>	<u>Contact hr</u>	<u>Load</u>
BIOL 171 Prin. Biology	63	4	3	3.00
BIOL 171L Prin Biology Lab	24	0	2	1.45
BIOL 317 Prin. Microbiology	32	4	2	2.40
BIOL 317L Microbiology Lab	20	0	4	2.90
BIOL 317L Microbiology Lab	12	0	4	2.90
<b>Total</b>	<b>151</b>	<b>8</b>	<b>15</b>	<b>12.65</b>

Spring 2007

<u>Course Taught</u>	<u>Enrollment</u>	<u>Credit hr</u>	<u>Contact hr</u>	<u>Load</u>
BIOL 317 Prin. Microbiology	40	4	2	2.40
BIOL 317L Microbiology Lab	21	0	4	2.90
BIOL 317L Microbiology Lab	19	0	4	2.90
BIOL 671 Graduate Seminar	5	1	1	1.20
Reassigned Time (P.R.I.D.E. Project)				2.00
<b>Total</b>	<b>85</b>	<b>5</b>	<b>11</b>	<b>11.40</b>

Fall 2006

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<u>Course Taught</u>	<u>Enrollment</u>	<u>Credit hr</u>	<u>Contact hr</u>	<u>Load</u>
BIOL 317 Prin. Microbiology	38	4	2	2.40
BIOL 317L Microbiology Lab	22	0	4	2.90
BIOL 317L Microbiology Lab	16	0	4	2.90
BIOL 519 Virology	31	3	3	3.00
<b>Total</b>	<b>107</b>	<b>10</b>	<b>13</b>	<b>11.20</b>

Spring 2006

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<u>Course Taught</u>	<u>Enrollment</u>	<u>Credit hr</u>	<u>Contact hr</u>	<u>Load</u>
BIOL 317 Prin. Microbiology	46	4	2	2.40
BIOL 317L Microbiology Lab	23	0	4	2.90
BIOL 317L Microbiology Lab	23	0	4	2.90
BIOL 517 Immunology	20	3	2	2.40
BIOL 517L Immunology Lab	20	0	2	1.45
BIOL 671 Graduate Seminar	3	1	1	1.20
<b>Total</b>	<b>135</b>	<b>11</b>	<b>15</b>	<b>13.25</b>

Fall 2005

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<u>Course Taught</u>	<u>Enrollment</u>	<u>Credit hr</u>	<u>Contact hr</u>	<u>Load</u>
BIOL 317 Prin. Microbiology	35	4	2	2.40
BIOL 317L Microbiology Lab	24	0	4	2.90
BIOL 317L Microbiology Lab	11	0	4	2.90
BIOL 540 General Parasitology	20	3	2	2.40
BIOL 540L Parasitology Lab	20	0	2	1.45
BIOL 671 Seminar	2	1	1	0.00
<b>Total</b>	<b>112</b>	<b>10</b>	<b>15</b>	<b>12.05</b>

Spring 2005

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<u>Course Taught</u>	<u>Enrollment</u>	<u>Credit hr</u>	<u>Contact hr</u>	<u>Load</u>
BIOL 317 Prin. Microbiology	44	4	2	2.40
BIOL 317L Microbiology Lab	24	0	4	2.90
BIOL 317L Microbiology Lab	20	0	4	2.90
BIOL 671 Graduate Seminar	3	1	1	1.20
BIOL 699 Thesis	1	6	6	1.00
<b>Total</b>	<b>92</b>	<b>11</b>	<b>17</b>	<b>10.40</b>

Fall 2004

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<u>Course Taught</u>	<u>Enrollment</u>	<u>Credit hr</u>	<u>Contact hr</u>	<u>Load</u>
BIOL 160 Intro. Biol. Prin.	43	3	3	3.00
BIOL 171L Prin. Bio. Lab	24	0	2	1.45
BIOL 317 Prin. Microbiology	22	4	2	2.40
BIOL 317L Microbiology Lab	22	0	4	2.90
BIOL 519 Virology	26	3	3	2.40
<b>Total</b>	<b>137</b>	<b>10</b>	<b>14</b>	<b>12.75</b>

### Spring 2004

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<u>Course Taught</u>	<u>Enrollment</u>	<u>Credit hr</u>	<u>Contact hr</u>	<u>Load</u>
BIOL 171L Prin. Bio. Lab	21	0	2	1.45
BIOL 317 Prin. Microbiology	23	4	2	2.40
BIOL 317L Microbiology Lab	23	0	4	2.90
BIOL 601 Biological Concepts	10	3	3	4.00
BIOL 671 Graduate Seminar	4	1	1	1.20
<b>Total</b>	<b>81</b>	<b>8</b>	<b>12</b>	<b>11.95</b>

### Fall 2003

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<u>Course Taught</u>	<u>Enrollment</u>	<u>Credit hr</u>	<u>Contact hr</u>	<u>Load</u>
BIOL 317 Prin. Microbiology	38	4	2	2.40
BIOL 317L Microbiology Lab (001)	19	0	4	2.90
BIOL 317L Microbiology Lab (002)	19	0	4	2.90
BIOL 419 Immunology	7	3	2	2.40
BIOL 419L Immunology Lab	7	0	2	1.45
BIOL 670 Directed Research	1	3	0	0.00
<b>Total</b>	<b>91</b>	<b>10</b>	<b>14</b>	<b>12.05</b>

### Spring 2003

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<u>Course Taught</u>	<u>Enrollment</u>	<u>Credit hr</u>	<u>Contact hr</u>	<u>Load</u>
BIOL 105 Intro. Biol. Sci.	43	3	3	3.00
BIOL 317 Prin. Microbiology	22	4	2	2.40
BIOL 317L Microbiology Lab	22	0	4	2.90
BIOL 676 Directed Study	4	3	0	0.00
BIOL 671 Graduate Seminar	4	1	1	1.20
BIOL 699 Graduate Thesis	1	6	0	1.00
<b>Total</b>	<b>96</b>	<b>17</b>	<b>10</b>	<b>10.50</b>

### Fall 2002

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<u>Course Taught</u>	<u>Enrollment</u>	<u>Credit hr</u>	<u>Contact hr</u>	<u>Load</u>
BIOL 317 Prin. Microbiology	26	4	2	2.40
BIOL 317L Microbiology Lab (001)	15	0	4	2.90
BIOL 317L Microbiology Lab (002)	11	0	4	2.90
BIOL 540 Parasitology	9	3	2	2.40
BIOL 540L Parasitology Lab	9	0	2	1.45
<b>Total</b>	<b>70</b>	<b>7</b>	<b>14</b>	<b>12.05</b>

### **Advisees**

As **Coordinator of the Biology Graduate Program**, I presently advise **18** active students.

### **Undergraduate Research Fellows**

Kristen Mitchell Platt, 2007-2009  
Amy Potter, 2008-2009  
Brittany Moore, 2009-present  
Marissa Kamelgarn, 2010-present

## **BIOL 476, Special Problems, Students**

Sarah Meeks, 2007  
Adam Kouns, 2006  
Joshua Minix, 2005

## **Service on Graduate Student Theses Committees**

Misty Hamilton. Thesis student, graduated May 2003.  
Johnnie Newton. Non-thesis student, graduated May 2005.  
Tina Howard (Chair). Thesis student, graduated December 2004.  
Horton Stull (Chair). Non-Thesis student, graduated December 2004.  
Logan Burns (Chair). Thesis student, graduated December 2005.  
Tiffany Nolan (Chair). Non-Thesis student, graduated May 2007.  
Premi Shekar (Chair). Thesis student, graduated June 2008.  
Neha Sharma. Non-thesis student, graduated, June 2009.  
Nastassia Shields (Chair). Non-Thesis student, anticipated graduation May 2011.

## **PROFESSIONAL ACHIEVEMENT**

### **Publications**

#### ***Non-refereed Articles***

2003. **Gearner, G. W.** 2003. Biomimicry. *The American Biology Teacher* **65**: 715-716.

#### ***Published Abstracts***

2007. Reeder, B.C., A. Haight, **G.W. Gearner**, J. Newton, D.P. Smith, E. Schuler, C. Richardson, T. Skaggs, T. Nolan, T. Platt, K. Lamb, E. Lotton, M. Armstrong, S. Adkins, M. Bowlds, M. Chafins. Surface Water Contamination: Third World Conditions in the Heart of Appalachia. Proceedings of the American Institute of Biological Sciences Meetings, Washington D.C. May 2007.

2007. Reeder, B. C. , A. D. Haight, **G. W. Gearner**, J. Newton, D. P. Smith, E. Schuler, T. Skaggs, T. Nolan, and E. Lotton. Triplett Creek Focus Study 2006. Proceedings of the Kentucky Water Resources Annual Symposium. Lexington, KY. March 2007.

#### ***Technical Reports***

2010. The Dry Creek Watershed Committee (**G. W. Gearner**, A. D. Haight, C. McMichael, and S. Reid) and the Kentucky Waterways Alliance. 2010. The Dry Creek Watershed Based Plan. Submitted to, and accepted by, the Kentucky Division of Water.

#### **Professional Presentations**

2010. Moore, B., K. Platt, A. Potter, N. Shields, A. Haight, and **G. W. Gearner**. *Escherichia coli* host source tracking in the Dry Creek Watershed, Rowan County, Kentucky. The 96<sup>th</sup> Annual Meeting of the Kentucky Academy of Science, Bowling Green, KY, 13 November 2010.

2010. Kamelgarn, M., B. Moore, K. Platt, N. Shields, A. Haight, and **G. W. Gearner**. *Escherichia coli* contamination of the Triplett Creek Watershed, Rowan County, Kentucky. The 96<sup>th</sup> Annual Meeting of the Kentucky Academy of Science, Bowling Green, KY, 13 November 2010.
2010. Platt, K. A. Potter, N. Shields, B. Moore, M. Kamelgarn, A. Haight, and **G. W. Gearner**. *Escherichia coli* Host Source Tracking in the Dry Creek Watershed, Rowan County, Kentucky. Celebration of Student Scholarship, Morehead State University, Morehead, KY, 21 April 2010.
2010. Moore, B., K. Platt, M. Kamelgarn, N. Shields, A. Haight, and **G. W. Gearner**. *Escherichia coli* Contamination of the Triplett Creek Watershed, Rowan County, Kentucky Celebration of Student Scholarship, Morehead State University, Morehead, KY, 21 April 2010.
2010. **Gearner, G. W.** Influenza Virus: Then and Now. Invited seminar, Big Sandy Technical and Community College, Prestonsburg, Kentucky, 29 January 2010.
2010. **Gearner, G. W.**, A. D. Haight, C. McMichael, and S. Reid. Bacteriological Analysis of the Dry Creek Watershed, Rowan County, Kentucky. Licking River Watershed Watch Annual Meeting, 20 February 2010, Blue Licks State Park, KY.
2009. Platt, K., A. Potter, and **G. W. Gearner**. Progress on Identifying Host Sources of *Escherichia coli* in the Dry Creek Watershed. *Celebration of Student Research Showcase*. Morehead, Kentucky, April, 2009.
2008. Mitchell, K., and **G. W. Gearner**. DNA Fingerprinting of *Escherichia coli* as a Tool to Track Host Sources of Watershed Fecal Contamination. *Celebration of Student Research Showcase*. Morehead, Kentucky, April, 2008.
2008. **Gearner, G. W.**, and A. D. Haight. Initial Bacteriological Assessment of the Dry Creek Watershed, Rowan County, Kentucky. Kentucky Water Resources Annual Symposium, Lexington, KY, 17 March 2008.
2006. Reeder, B. C., **G. W. Gearner**, J. W. Marion, T. A. Leonard, P. W. Whitley, L. Crum, J. Hunt, C. C. Shields, and J. Thompson. Water Quality in the Upper Licking River Basin 2003 - 2005. Kentucky Water Resources Annual Symposium, Lexington, KY, 2 March 2006.
2006. Burns, L. H., and **G. W. Gearner**. The Use of Antibiotic Resistance Profiles of *Escherichia coli* as Indicators of the Host Source of Fecal Contamination in the Triplett Creek Watershed, Rowan County, Kentucky. The 106<sup>th</sup> General Meeting of the American Society of Microbiology, Orlando, FL, 25 May 2006.
2006. Reeder, B. C., **G. W. Gearner**, D. P. Smith, A. D. Haight, J. D. Newton, T. Skaggs, E. Lawton, E. Schuler, and T. Nolan. Identification of Sources of Water Quality Degradation in Triplett Creek, Rowan County, KY. The ORBCRE Symposium 2006, Murray, KY, 26 October 2006.
2006. Nolan, T. L., **G. W. Gearner**, and B. Reeder. Comparative Analysis of Media Used to Detect Fecal Bacteria in Environmental Water Samples. The 92<sup>nd</sup> Annual Meeting of the Kentucky Academy of Science, Morehead, KY, 12 November 2006.

2005. Minix, J. T., and **G. W. Gearner**. Antibiotic resistant *Escherichia coli* in Evans Branch, Rowan County, Kentucky. The 91<sup>st</sup> Annual Meeting of the Kentucky Academy of Science, Richmond, KY, 11 November 2005.
2004. Reeder, B., and **G. W. Gearner**. Trends in Water Quality in the Licking River after Sewage Upgrades. ORBCRE Symposium, Athens, Ohio, August 2004.
2003. **Gearner, G. W.** Incorporating an Internet Project-Based Learning Activity into the Undergraduate Microbiology Course. American Society of Microbiology's 10<sup>th</sup> Undergraduate Microbiology Education Conference, College Park, MD, May 2003.
2003. Howard-Ousley, T., and **G. W. Gearner**. Assessment of Antibiotic Resistance in Fecal Coliform Bacteria in the Triplett Creek Watershed, Rowan County, Kentucky. American Society of Microbiology 103<sup>rd</sup> General Meeting, Washington D.C., May 2003.

## Professional Organizations

American Association for the Advancement of Science  
 American Society for Microbiology  
 Kentucky Academy of Science  
 SETAC

## Scholarly Grants

### **Funded**

2010. Pilot Study: Assessment of the Triplett Creek Watershed for the Presence of Antibiotic Resistant Factor Genes. 2010. Department of Biology and Chemistry Faculty Research Endowment, Morehead State University. \$850.
2008. The Triplett Creek Watershed-Based Plan. 2008-2013. U.S.E.P.A. and the Kentucky Non-Point Source Pollution Control Program. Co-P.I. with April Haight (P.I.), Christine McMichael, and Steven Reid. \$658,617.
2007. The Dry Creek Watershed-Based Plan. 2007-2009. Kentucky Waterways Alliance via the U.S.E.P.A. and the Kentucky Division of Water. Co-P.I. with April Haight (P.I.), Christine McMichael, and Steven Reid. \$45,000
2007. Molecular Biology Core Research Facility Instrumentation. 2007. Kentucky EPSCoR. Co-P.I. with D. Peyton (P.I.), D. DeMoss, M. Fultz, J. Hare, and W. White. \$93,076.
2005. DNA Sequencer. 2005. LI-COR's 2005 Genomics Educations Matching Fund. Co-P.I. with J. Hare (P.I.) and David Peyton. \$42,449.50
2003. Comparison of Discriminant Analysis of Antibiotic Resistant Profiles of *Escherichia coli* to DNA Fingerprinting and Fecal Coliform to Fecal Streptococci Ratios as Indicators of Host Source. University Creative Research and Production Committee. \$5,000.

2003-05. The Upper Licking River Watershed: Teaching and Monitoring Through PRIDE. East Kentucky P.R.I.D.E./National Oceanic and Atmospheric Administration Co-P.I. with Brian Reeder (P.I.). \$298,938.

2002-03. Integrating an Internet-based Project into the Microbiology Course. Morehead State University PT3 Project. \$1,500.

### **Renewals**

2005 - 2007. The Upper Licking River Watershed: Teaching and Monitoring Through PRIDE. East Kentucky P.R.I.D.E./National Oceanic and Atmospheric Administration (Co-P.I. with Drs. Brian Reeder and David Smith).

### **Not Funded**

2009. Master of Science in Biology with emphasis in Regional Analysis and Public Policy. National Science Foundation. (Co-P.I. with Dr. Brian Reeder) \$690,154.

2004. Adapting and Incorporating DNA Sequencing into the Undergraduate Biology Curriculum to Support Inquiry-Based Learning. National Science Foundation (Co-P.I. with Drs. Janelle Hare and David Peyton). \$91,095.

2003. Adapting and Incorporating DNA Sequencing into the Undergraduate Biology Curriculum to Support Inquiry-Based Learning. National Science Foundation (Co-P.I. with Drs. Janelle Hare and David Peyton). \$96,517.

### **Conferences Attended**

Kentucky Academy of Science 93<sup>rd</sup> Annual Meeting, 12 – 13 November 2010, Bowling Green, KY. Presented two posters and participated in sessions.

Licking River Watershed Watch Annual Conference. 19-20 February 2010, Blue Licks State Park, KY. Presented a paper and participated in sessions.

Kentucky Water Resources Annual Symposium, 17 March 2008, Lexington, KY. Presented a poster and attended sessions.

Kentucky Academy of Science 93<sup>rd</sup> Annual Meeting, 8 – 10 November 2007, Louisville, KY. Chaired the Microbiology section of the meeting and attended sessions.

AAC&U Conference on General Education, 18 – 23 May 2007, Newport, Rhode Island. Participated in the conference as a member of the MSU General Education Task Force.

Kentucky Academy of Science 92<sup>nd</sup> Annual Meeting in Morehead, KY 9 – 11 November 2006. Presented a poster, chaired the Microbiology section of the meeting, and attended sessions.

American Society for Microbiology 106<sup>th</sup> General Meeting, 22- 25 May 2006, Orlando, FL. Presented a poster at the meeting and attended sessions.

UT-ORNL-KBRIN Bioinformatics Summit, 21-23 April 2006, Lake Barkley State Park, KY. Attended sessions.

Kentucky Academy of Science 91<sup>st</sup> Annual Meeting, 11 November 2005, Richmond, KY. Presented a poster and attended sessions.

American Society of Microbiology 103<sup>rd</sup> General Meeting, Washington D.C., 19-22 May 2003. Presented two posters and attended session.

## Professional Development

President's Leadership Academy, Morehead State University, April 2006- May 2007.

Participated in a CMS workshop conducted by the MSU Web Marketing staff, 20 September 2005.

Attended a web conference entitled, "Best Practices in Recruiting and Retaining Diversity Faculty", 25 October 2005.

Participated in workshop entitled "Experiments with Eggs and Larvae of the Tapeworm, *Hymenolepis diminuta*" conducted by Dr. Ron Rosen and sponsored by the Kentucky Academy of Sciences, Eastern Kentucky University, 11 November 2005.

Participated in an on-site training workshop conducted by Dr. Chris Pitulle of Li-Cor on the use of the DNA Sequencer, 21-23 November 2005

## SERVICE

### MSU Overview

<u>Committee</u>	<u>Level</u>	<u>Years</u>	<u>Office held</u>
Tenure & Promotion Committee	Department	1995-present	
Graduate Committee	Department	1990 – present	Chair
Microbiologist Search Committee	Department	2002 - 2003	
Assessment Committee	Department	2000 - present	
BES Chair Search Committee	Department	2006 - 2007	
Physiology Search Committee	Department	2004 - 2005	
Psychology Tenure/Promotion Comm.	College	2001 - 2003	
Mathematics Tenure/Promotion Comm.	College	2003	
Faculty Rights & Responsibil. Comm.	University	2001 - 2003	Chair
Tenure Committee	University	2003 - 2006	
Graduate Program Recruiting Comm.	University	2004 – present	
Promotion Comm.	University	2006 – 2008	Vice-Chair
General Education Steering Comm.	University	2007- 2009	
MSU/UK Presidents' Task Force:			
Rural Dental Ed. Collaborative	University	2010 – present	
Lumina Project	University	2010 - present	

### **Other Departmental Service**

BES Graduate Program Coordinator, 2002 - present

Developed and maintained the Department's World Wide Web home page, 1996-2009.

### **Other University Service**

Maintain the General Education Reform website, 2007-2010.

Assisted Rosemarie Gold and Duane Lambert (Dept. of Leadership and Secondary Education) in admitting and advising Master of Arts Teaching, Biology candidates, 2003 – present.

### **Service as Official Representative of MSU**

Serve on the Associate in Science Advisory Committee, Maysville Community and Technology College. 2010 – present.

Serve as a Science Advisor for Licking River Watershed Watch. 2010 - present.

Served as Chair of the Microbiology Section of the Kentucky Academy of Sciences, 2006-2007.

Served as a Reader and a Table Leader for Advanced Placement (AP) Biology exams for the College Board through the Educational Testing Service, for 7-10 days each summer, 2003 – 2010.