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|  | James Tillman Kennon Associate Professor of Science Education  (870)972-3256  jkennon@astate.edu |  |

### Current Position

Position Title: Associate Professor of Science Education

Current Academic Rank: Associate Professor

Rank Since: Fall 2008

### Degrees

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| --- | --- |
| EDD | Science Education/Instruction and Curriculum Leadership: , University of Memphis, Memphis, TN 2002  Dissertation: A Study of the Levels of Understanding of Physical Science Concepts of K-8 Preservice and Inservice Teachers |
| MSE | Biology: Education, Arkansas State University, Jonesboro, AR 1992 |
| BSE | Biology: education, Arkansas State University, Jonesboro, AR 1991 |
| BS | Zoology: , Arkansas State University, Jonesboro, AR 1972 |

### Scholarly Contributions and Creative Productions

Grants

Kennon, J.T., & Grady, J. (2012). Weaving Together Science & Common Core Mathematics & Literacy Through Problem-based Learning. NCLB.

Kennon, J.T., & Huang, A. (2011). Balloon SAT M-T 11-12. Arkansas Space Grant Consortium - 4953.5.

Kennon, J.T., & Ali, H. (2010). Atmospheric Aerosol/Radiation. Arkansas Space Grant Consortium - 11365.

Green, V.S., Hannigan, R., Christian, A., Kennon, J.T., & Gilbert, E. (2008). Sencer Institute - 3000.

Kennon, J.T., & Huang, A. (2008). BalloonSAT-based Mirco Thruster Flight Tests. Arkansas Space Grant Consortium - 29644.2.

Kennon, J.T. (2008). BalloonSAT/Heat Islands. Arkansas Space Grant Consortium - 14279.

Pratte, J.M., Kennon, J.T., Green, V.S., Bouldin, J., & Gilbert, E. (2008). SENCER Implementation Grant. SENCER - 3000.

Kennon, J.T. (2007). BalloonSAT. Arkansas Space Grant Consortium - 17714.

Kennon, J.T. (2007). Funds for NSTA Boston BalloonSAT & CricketSAT Presentation. Arkansas Space Grant Consortium - 1553.08.

Kennon, J.T. (2007). Funds for Texas Star Party BalloonSAT & CricketSAT Presentation. Arkansas Space Grant Consortium - 1061.

Kennon, J.T., Trautwein, J., & Ross, C.A. (2007). No Child Left Behind Mathematics and Science Partnership Grant, Mississippi County Science Academy. U.S. Department of Education and ADE - 120948.

Kennon, J.T., Trautwein, J., & Ross, C.A. (2006). No Child Left Behind Mathematics and Science Partnership Grant, Mississippi County Science Academy. US Depatment of Education and ADE - 100428.

Kennon, J.T. (2012). Collection/Analyses of Upper Atmosphere UV Radiation. Arkansas Space Grant Consortium - 3864.00.

Kennon, J.T. (2012). University Balloon Program. Arkansas Space Grant Consortium - 10,000.00.

Grippo, A., Kennon, J.T., Hall, J., Engelken, R., Yanowitz, K., & Trautwein, J. (2009). Creating STEM Teachers for Arkansas' Future. NSF - 899988.

Bouldin, J., Grippo, A., Kennon, J.T., Miller, C.A., & Hall, J. (2008). GK12: Environmental Sciences and Molecular Biosciences in the Natural State.. NSF Division of Graduate Education - 2242556.

Journal Publications

Kennon, J.T., Vaughn, G.C., Grippo, A., & Bouldin, J. (2012). Simple Toxicity Testing Utilizing Daphnia spp. and Table Salt. Science Scope/NSTA.

Johnson, R., & Kennon, J.T. (2009). Teaching population genetics and evolution in the biology classroom using Drosophila.. Journal of College Science Teaching, 38, 18-23.

Kennon, J.T. (2009). Teaching population genetics and evolution in the biology classroom using Drosophila.. Journal of College Science Teaching, 38, 18-23.

Kennon, J.T., Roberts, E., & Fuller, T.K. (2008). Students at the Edge of Space. The Science Teacher, 75(1), 36-43.

Kennon, J.T., & Ross, C.A. (2007). Recycling aluminum cans in the lab: two inexpensive inquiry activities. Science Scope, 30(6), 5.

Presentations

Kennon, JT, AA Grippo. A fun real-world experiment testing different sunscreens. National Science Teachers Association 2013 STEM Forum & Expo (2013)

Freeman-Nelson, K, AA Grippo, JT Kennon. Put up your dukes! A hands-on lesson on plant defenses. NSF Noyce National Conference (2013)

Fong, B., Kennon, J.T., & Ali, H.M. (2013). BalloonSAT: Water Vapor Measurements of the Lower Stratosphere. Arkansas Space Grant Symposium.

Kennon, J.T., & Roberts, E. (2012). Arkansas BalloonSAT: Outreach and Research. 2012 Fall Southeast Regional Space Grant Meeting.

[Right here.http://national.spacegrant.org/archives.html](http://national.spacegrant.org/archives.html" \t "_blank)

Kennon, J.T., & Rogers, D. (2012). Common Core: What Are the Implications for Science Teachers?. Common Core Conference at ASU.

Ali, H., Kennon, J.T., & Patterson, A. (2012). Design of an aerosol generation and reaction apparatus. 20th Annual ASGC symposium.

Kennon, J.T., Hall, J., Bouldin, J.L., & Miller, C. (2012). Environmental Science Activities for Middle Grades Classrooms. Arkansas Curriculum Conference.

Grippo, R., Risch, T., & Johnson, R. (2012). NATIONAL SCIENCE FOUNDATION PROPOSED PROJECT: FISHING FOR STEM LITERACY INFORMAL SCIENCE EDUCATION INITIATIVE. Annual Meeting of Mid-South SETAC.

Kennon, J.T., & Roberts, E. (2012). Taking the Temperature of the Atmosphere. Arkansas Curriculum Conference.

Kennon, J.T., & Popejoy, R. (2012). Teacher Education Math and Science. College of Education Future Teacher’s Day.

Ali, H., & Kennon, J.T. (2012). Water vapor and climate change. Dept of Chemistry Seminar.

Kennon, J.T., & Roberts, E. (2012). Will it Float? Density. Arkansas Curriculum Conference.

Kennon, J.T., Grippo, A., Hall, J., Freeman-Nelson, K., Earhart, A., & Collins, C. (2011). A Fun Real-World Experiment Testing Different Sunscreens. Arkansas Curriculum Conference.

Kennon, J.T., Bennett, B., Ali, H., & Roberts, E. (2011). Arkansas BalloonSAT Project: Year IV. Arkansas Space Grant Symposium.

Bouldin, J., Yanowitz, K.L., Miller, C.A., Grippo, A., & Kennon, J.T. (2011). Arkansas State University graduate student enhance communication skills and science education in the Arkansas Delta. NSF GK12 Annual Meeting.

Kennon, J.T., Ali, H., & Pratte, J.M. (2011). Atmospheric Dynamics: Students at the Edge of Space. SENCER Summer Institute 2011.

Ali, H., & Kennon, J.T. (2011). ATR-FTIR investigation on the DRH of mixed binary salts of atamospheric importance. Conference on Undergraduate Research.

Kennon, J.T., Ali, H., Huss, M., Bennett, B., & Roberts, E. (2011). BalloonSat/Near Space Research. 2011 Arkansas NASA EPSCoR Workshop.

Grippo, A., Kennon, J.T., Hall, J., Engelken, R., Yanowitz, K., & Bouldin, J. (2011). Creating STEM Teachers for Arkansas' Future by Designing an Environmental Science Outreach Activity. Mid-South SETAC Regional Meeting.

Bouldin, J., Yanowitz, K.L., Miller, C.A., Grippo, A., & Kennon, J.T. (2011). Enhanced environmental education in middle school classrooms by graduate students in the Arkansas Delta. North American Benthological Society Annual Meeting.

Bouldin, J., Yanowitz, K.L., Miller, C.A., Grippo, A., & Kennon, J.T. (2011). Enhanced environmental education in middle school classrooms by graduate students in the Arkansas Delta. MidSouth Society of Environmental Toxicology and Chemistry Annual Meeting.

Kennon, J.T., Miller, C., Wynia, A., Bouldin, J., & Grippo, A. (2011). Fun Hands-On Environmental Science Activities for Middle Grades. Arkansas Curriculum Conference.

Kennon, J.T., & Bennett, B. (2011). High Altitude Balloon Project. Thirty-Third Annual Texas Star Party.

Kennon, J.T., Ali, H., & Williams, T. (2011). Intensities of Red, Green and Blue Light in the Atmosphere. Arkansas Space Science Symposium.

Ali, H., & Kennon, J.T. (2011). Investigating the Boundary layer variations as a function of altitude. National Conferences on Undergraduate Research.

Ali, H., & Kennon, J.T. (2011). Measurment of tropospheric water vapor in relation to climate change. 95th Arkansas Academy of Science Meeting.

Ali, H., & Kennon, J.T. (2011). Upper Tropospheric Chemistry in Relation to Climate Change. 2011 NASA EPSCoR Research Team Network Meeting.

Kennon, J.T., Grippo, A., Hall, J., Stewart, J., Prince, L., Haagenson, K., Skelton, C., Kennon, M.E., Holton, D., & Vaughan, G. (2010). A Fun Environmental Science Experiment Using Water Fleas. Arkansas Curriculum Conference 2010.

Kennon, J.T. (2010). Arkansas BalloonSAT Program. 17th Annual Arkansas Undergraduate Research Conference.

Kennon, J.T. (2010). ASU BalloonSAT Program. 18th Annual Arkansas Space Grant Symposium.

Ali, H., & Kennon, J.T. (2010). Conditions in the upper atmosphere related to climate change. 2010 Arkansas INBRE ResearchCconference.

Ali, H., & Kennon, J.T. (2010). Conditions in the upper atmosphere related to climate change. Midsouth Inorganic Chemists Association.

Grippo, A., Kennon, J.T., Hall, J., Engelken, R., Yanowitz, K., Trautwein, J., & Bouldin, J. (2010). C-STAF: Creating STEM Teachers for Arkansas' Future. Noyce National Conference.

Kennon, J.T., Miller, C., Hall, J., Bouldin, J., Lisko, K., & White, A. (2010). Environmental Science, Inquiry-based Activities for The Classroom. Arkansas Curriculum Conference 2010.

Ali, H., & Kennon, J.T. (2010). Measurments of Stratospheric water vapor by weather balloons. 2010 SE/SW ACS Regional meeting.

Bouldin, J., Yanowitz, K.L., Miller, C.A., Grippo, A., & Kennon, J.T. (2010). Pedagogy by graduate students enhance communication skills and science education in the Arkansas Delta. Society of Environmental Toxicology & Chemistry North America annual meeting.

Draganjac, M., Burns, W., Kennon, J.T., Panigot, M., Ontko, A., Koizumi, H., Warby, R., Cron, S., & Rougeau, B.L. (2010). Pre- and post-assessment of general chemistry students. 240th ACS National Meeting.

Kennon, J.T. (2009). ASU BalloonSAT Program. 17th Annual Arkansas Space Grant Symposium.

Bouldin, J., Sappington, D.R., Yanowitz, K.L., Grippo, A., Miller, C.A., & Kennon, J.T. (2009). Enhancing middle school science education in the Arkansas rural schools by Environmental Sciences and Molecular Biosciences graduate students. SETAC North America Meeting.

Kennon, J.T., Miller, C., Grippo, A., Hall, J., McKie, A., & Schirmer, S. (2009). "GK12: Environmental & Molecular Biosciences in the Natural State". Arkansas Curriculum Conference 2009.

Kennon, J.T., & Roberts, E. (2009). High Altitude Balloon Research In Arkansas. Arkansas Curriculum Conference 2009.

Kennon, J.T., & Pratte, J.M. (2009). Students on the Edge of Space, Year II. SENCER SSI 2009.

FinCannon, M., & Kennon, J.T. (2009). The Effects of High Altitude Conditions on Different Organisms. RISE Poster Presentation.

Pratte, J.M., & Kennon, J.T. (2008). Atmospheric Dynamics. SENCER Washington Symposium.

Kennon, J.T., Roberts, E., & Fuller, T.K. (2008). Edge of Space: BalloonSAT's & CricketSAT's. 2008 National Conference on Science Education.

Christian, A., Kennon, J.T., & Hall, J. (2008). "GK12: Environmental & Molecular Biosciences in the Natural State". Arkansas Curriculum Conference.

Kennon, J.T., Burns, W., Draganjac, M., Redeker, K., Dowling, C., Cron, S., Rougeau, B., & Bryant, M. (2008). Pre- and post-assessment of general chemistry students. 235th National ACS meeting.

Kennon, J.T., & Roberts, E. (2008). Rockets, not just a store bought model anymore.. Arkansas Curriculum Conference.

Kennon, J.T., & Pratte, J.M. (2008). Students on the Edge of Space. SENCER Summer Institute 2008.

Kennon, J.T., Roberts, E., & Fuller, T.K. (2007). Arkansas academy of space science for educators high altitude balloon project. Arkansas Curriculum Conference.

Kennon, J.T. (2007). High altitude balloon project. Twenty-ninth Annual Texas Star.

Kennon, J.T. (2007). Levels of understanding of physical science concepts of college. National Science Teachers Association Conference.

Huss, M., & Kennon, J.T. (2007). Oral presentation: The edge of space over Arkansas: Arkansas BalloonSat. Arkansas Academy of Science 91st Annual Meeting.

Kennon, J.T., & Ross, C.A. (2007). Planning and teaching standards-based science lessons: tips for preservice teachers. Arkansas Curriculum Conference.

Huss, M., & Kennon, J.T. (2007). Poster presentation: Arkansas igh altitude balloon initiative. 15th Annual Arkansas Space Grant Symposium.

Huss, M., & Kennon, J.T. (2007). Poster presentation: The edge of space over Arkansas: Arkansas BalloonSat. Arkansas Academy of Science 91st Annual Meeting.

Kennon, J.T., & Ross, C.A. (2007). Science laboratory safety training for 7-12 Arkansas teachers. Mid-South Educational Research Association Conference.

Kennon, J.T., & Ross, C.A. (2007). Science laboratory safety training for grades 7-12 Arkansas. National Science Teachers Association Conference.

Kennon, J.T., & Roberts, E. (2007). The edge of space over Arkansas: Arkansas balloonsat. Fifteenth Annual Arkansas Space Grant Symposium.

Kennon, J.T., & Roberts, E. (2007). The edge of space over Arkansas: Arkansas balloonsat. Arkansas Academy of Science 91st Annual Meeting.

Poster Presentations

Collins, K., Fong, B., Melton, M., Kennon, J.T., & Ali, H.M. (2013). Effects of Hig Altitude Conditions on Seed Germination. Arkansas Space Grant Symposium.

Other

Kennon, J.T., & Meeks, G. (2010). Report to the Botswana Ministry of Education.

Kennon, J.T. (2007). Science is suppose to be fun. Liz Fulton.

Kennon, J.T. (2012). Program Report for the Preparation of Science Teachers.

### Institutional Committees

University

Secondary Science Programs Committee (University) Fall 2002 - Summer 2012

Council on Professional Education (University) Fall 2003 - Summer 2012

Department Promotion, Retention and Tenure Committee (University) Fall 2008 - present

### Other Institutional Service

Conceptual Framework (Initial Programs) Task Force (University) Fall 2012 - Present

ASU Representative, Arkansas Space Grant Consortium Board (University) Spring 2012 - Present

(Other) NSF STEM Review Panel (University) Fall 2011

(Committee Member) Analytical Chemistry Faculty Search (University) Fall 2011 - Summer 2012

(Committee Member) Secondary Education Programs Committee (University) Fall 2010 - Summer 2012

(Special Institutional Assignment) Botswana Educational Exploratory Trip (University) Spring 2010 - Summer 2010

(Committee Member) Chemistry Faculty Search Committee (University) Fall 2008 - Summer 2009

(Committee Member) Departmental Promotions, Tenure, and Retention Committee (University) Summer 2008 - Summer 2012

(Committee Chair) Physical Science Instructor Search Committee (University) Fall 2007 - Fall 2008

(Committee Member) NCATE Standard 3 Writing Committee (University) Fall 2006 - Summer 2012

(Faculty Mentor) General Chemistry Lecture Committee (University) Fall 2006 - Summer 2012

(Other) Northeast Arkansas Regional Science Fair Director (University) Fall 2004 - Present

(Committee Chair) Secondary Science Screening Committee (University) Fall 2002 - Summer 2012

(Committee Chair) 7-12 Forum (University) Fall 2002 - Fall 2010

### Professional Service

Member, National Science Teachers Associaiton Summer 2012

Reviewer, Ad Hoc Reviewer, Association for Science Teacher Education Summer 2012

Other, Jacksonport State Park Summer 2012 - Fall 2007

Guest Speaker, Cross County Amateur Radio Club Summer 2012 - Fall 2007

Member, Astronomical Society of the Pacific Summer 2012

Member, National Association of Biology Summer 2012

Committee Member, Arkansas Co-Teach Collaborative Wynne HS Fall 2007 - Summer 2012

Committee Chair, Arkansas Academy of Science-Science Education Committee Spring 2007 - Summer 2012

Committee Chair, Arkansas Curriculum Conference Fall 2006 - Present

Other, Arkansas Curriculum Conference Fall 2006 - Summer 2012

Committee Chair, Arkansas Science Teachers Association Fall 2006 - Summer 2012

Committee Member, Arkansas Mathematice, Science, Technology Coalition Board Fall 2006 - Summer 2012

Other, Northeast Arkansas Regional Science Fair Fall 2004 - Summer 2012

### Honors and Awards

Achievement Award for Service, Arkansas State University, College of Sciences and Mathematics 2009

### Teaching

Fall 2006 Courses:

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| --- |
| EDSC 4593 001 - Methods and Materials Teaching Science in the Secondary School |
| EDSC 5593 1 - METH MAT TEACH SCI SEC SCHOOL |
| GSP 3203 001 - Science for Teachers |
| GSP 3203 002 - Science for Teachers |
| TIBI 4826 001 - Biology Teaching Internship in the Secondary School |
| TICH 4826 001 - Chemistry Teaching Internship in the Secondary School |

Spring 2007 Courses:

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| GSP 3203 001 - Science for Teachers |
| GSP 3203 002 - Science for Teachers |
| TIBI 4826 001 - Biology Teaching Internship in the Secondary School |
| TICH 5826 1 - CHEM TEACH INTERN SECONDARY |
| TIPH 5826 1 - PHYSICS TEACH INTERN SECONDARY |

Summer 2007 Courses:

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| GSP 3203 001 - Science for Teachers |
| GSP 3203 1 - SCIENCE IN ELEM CLASSROOM |
| GSP 5973 1 - SUMMER SCIENCE ACADEMY |
| GSP 5983 1 - SPACE SCIENCE AND MATH |

Fall 2007 Courses:

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| EDSC 4593 001 - Methods and Materials Teaching Science in the Secondary School |
| EDSC 5593 1 - METH MAT TEACH SCI SEC SCHOOL |
| GSP 3203 001 - Science for Teachers |
| GSP 3203 002 - Science for Teachers |

Spring 2008 Courses:

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| GSP 3203 001 - Science for Teachers |
| GSP 3203 002 - Science for Teachers |
| PHYS 4913 1 - ATMOSPHERIC DYNAMICS |

Summer 2008 Courses:

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| GSP 3203 001 - Science for Teachers |

Fall 2008 Courses:

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| EDSC 4593 001 - Methods and Materials Teaching Science in the Secondary School |
| EDSC 5593 1 - METH MAT TEACH SCI SEC SCHOOL |
| GSP 3203 001 - Science for Teachers |
| GSP 3203 002 - Science for Teachers |
| TIBI 5826 1 - BIOLOGY TEACH INTERN SECONDARY |

Spring 2009 Courses:

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| GSP 3203 001 - Science for Teachers |
| GSP 3203 002 - Science for Teachers |
| PHYS 459V 001 - Research in Physics |
| PHYS 4913 1 - ATMOSPHERIC DYNAMICS |
| TIBI 4826 001 - Biology Teaching Internship in the Secondary School |
| TICH 4826 001 - Chemistry Teaching Internship in the Secondary School |

Summer 2009 Courses:

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| GSP 3203 001 - Science for Teachers |
| GSP 3203 010 - Science for Teachers |

Fall 2009 Courses:

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| EDSC 4593 001 - Methods and Materials Teaching Science in the Secondary School |
| EDSC 5593 1 - METH MAT TEACH SCI SEC SCHOOL |
| GSP 3203 001 - Science for Teachers |
| GSP 3203 002 - Science for Teachers |
| TIBI 4826 001 - Biology Teaching Internship in the Secondary School |
| TICH 4826 001 - Chemistry Teaching Internship in the Secondary School |

Spring 2010 Courses:

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| CHEM 4393 002 - Special Problems |
| GSP 3203 001 - Science for Teachers |
| GSP 3203 002 - Science for Teachers |
| GSP 3203 008 - Science for Teachers |
| PHYS 3043 001 - ATMOSPHERIC DYNAMICS |
| PHYS 4693 001 - Research in Physics-Capstone |
| TIBI 4826 001 - Biology Teaching Internship in the Secondary School |
| TIBI 5826 1 - BIOLOGY TEACH INTERN SECONDARY |

Summer 2010 Courses:

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| GSP 3203 001 - Science for Teachers |
| GSP 3203 008 - Science for Teachers |

Fall 2010 Courses:

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| EDSC 4593 001 - Methods and Materials Teaching Science in the Secondary School |
| GSP 3203 001 - Science for Teachers |
| GSP 3203 002 - Science for Teachers |
| PHYS 459V 001 - Research in Physics |
| TIBI 5826 1 - BIOLOGY TEACH INTERN SECONDARY |
| TICH 5826 1 - CHEM TEACH INTERN SECONDARY |

Spring 2011 Courses:

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| --- |
| GSP 3203 001 - Science for Teachers |
| GSP 3203 002 - Science for Teachers |
| PHYS 3043 001 - ATMOSPHERIC DYNAMICS |
| TIBI 4826 001 - Biology Teaching Internship in the Secondary School |
| TIPH 4826 001 - Physics Teaching Internship in the Secondary School |

Summer 2011 Courses:

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| GSP 3203 001 - Science for Teachers |
| GSP 3203 002 - Science for Teachers |

Fall 2011 Courses:

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| EDSC 4593 001 - Methods and Materials Teaching Science in the Secondary School |
| EDSC 5593 1 - METH MAT TEACH SCI SEC SCHOOL |
| GSP 3203 001 - Science for Teachers |
| GSP 3203 002 - Science for Teachers |
| TIBI 4826 001 - Biology Teaching Internship in the Secondary School |
| TICH 4826 001 - Chemistry Teaching Internship in the Secondary School |

Spring 2012 Courses:

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| CHEM 1003 001 - Introduction to Chemistry |
| GSP 3203 001 - Science for Teachers |
| GSP 3203 002 - Science for Teachers |
| PHYS 3043 001 - Atmospheric Dynamics |
| TICH 4825 001 - Chemistry Teaching Internship in the Secondary School |

Summer 2012 Courses:

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| GSP 3203 002 - Science for Teachers |
| GSP 3203 009 - Science for Teachers |

Fall 2012 Courses:

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| EDSC 4593 001 - MET MAT TECH SCIENCE 2ND SCH |
| GSP 3203 001 - SCIENCE FOR TEACHERS |
| GSP 3203 002 - SCIENCE FOR TEACHERS |
| TIBI 4826 001 - BIOL TEACH INTERN SECONDARY |
| TICH 5826 001 - CHEM TEACH INTERN SECONDARY |