

The SBE Sciences at Montana State University:
A report to the SBE Sciences External Advisory Committee

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Background

Montana State University, Montana's land grant university, enrolls approximately 14,000 graduate and undergraduate students, and is ranked among the nation's top tier of research universities, as recognized by the Carnegie Foundation for the Advancement of Teaching. The Foundation recently ranked MSU as one of 108 research universities with "very high research activity." MSU's expenditures from sponsored research programs reached \$109 million in fiscal year 2010 and are expected to keep growing (see Appendix A).

Montana State University (MSU) recognizes the importance of research involving the social, behavioral and economic sciences and seeks to strengthen its work in this area. Social, behavioral and economic (SBE) research advances our basic knowledge of individuals, institutions, and society and plays an increasingly important role in collaboration and integration across other scientific and engineering fields¹. As this report details, SBE researchers at MSU engage in both basic and applied research, and collaborate with other social scientists and in interdisciplinary projects with science, technology, engineering and mathematics (STEM) researchers.

At this point, we seek input and guidance from external experts with a history of success in securing SBE science funding in a range of institutional contexts. For that reason, Dr. Olsen (Founder and Managing Director of ScienceWorks DC) is working with MSU to assemble an external advisory committee (EAC) to visit MSU, meet with faculty and researchers currently or potentially interested in funded SBE research, learn about MSU's current context and hopes for the future, and advise MSU about best practices for enhancing funded SBE research. The EAC's report will identify strengths, potential gaps, and areas of opportunities and provide relevant feedback that will contribute to a "SBE sciences" strategic plan, a roadmap for success in securing extramural funding.

In this report, we summarize the current state of SBE research at Montana State University. We include:

- Profiles of SBE-related departments

¹ In 2009, the National Science and Technology Council's Subcommittee on Social, Behavioral and Economic Sciences published a report, "Social, Behavioral and Economic Sciences in the Federal Context," that highlighted opportunities for social science research to address important societal challenges including health, education, human and natural disasters, creativity and innovation, and the long-term sustainability of civilization within Earth's ecosystems. The report identified federally supported research areas where the work of anthropologists, archaeologists, cognitive and neuroscientists, psychologists, economists, sociologists, linguists, political scientists and others can deepen our knowledge of human behavior, social systems and their impacts on our world.

- Interdisciplinary opportunities and themes
- A vision for the future of SBE sciences research at MSU
- Measurable outcomes proposed by MSU's SBE researchers
- A review of concerns and possible barriers to progress
- Individual faculty profiles

This report was developed with input from faculty and academic administrators in seven colleges (Letters & Science; Education, Health & Human Development; Nursing; Business; Agriculture; Engineering; and Arts & Architecture) and twelve departments (Departments of Agricultural Economics and Economics; Art; Education; Health and Human Development; History, Philosophy and Religion; Immunology & Infectious Diseases; Mechanical & Industrial Engineering; Political Science; Psychology; Sociology & Anthropology; along with faculty from Nursing and Business, which are integrated Colleges without separate departments). Much of the content of this report was generated in: (1) conversations that took place in June 2011 between Dr. Kathie Olsen and faculty and administrators in SBE-related fields, and (2) a day-long retreat held in August 2011 and attended by more than 40 faculty and academic administrators with interests in SBE research. Institutional data on individual departments and colleges was drawn from our Office of Institutional Planning and Analysis. In addition, retreat participants had the opportunity to review the report before it was distributed to the external advisory committee.

In this report, we seek to bring the perspectives of many colleges, departments and faculty together into a cohesive description of the state of SBE sciences research at MSU. But we have also tried to accurately depict differences in viewpoints with respect to research that exist across colleges, departments and sometimes even among faculty within a given department. This report should be understood as an effort to balance these goals.

Department profiles: Strengths and opportunities

At the August retreat, faculty in SBE-related departments met and formulated statements of departmental strengths and foci. Departmental representatives (i.e., Chair or Head or faculty present at the retreat) subsequently reviewed and revised these statements before we included them in this report. It is important to note that the department profiles focus on substantive and methodological strengths of departments, and our connections with communities. They do not, however, speak directly to the culture of research at MSU or within specific units. We expect that the EAC will learn more about the nature of these cultures as part of their visit to our campus. Additional information on departments and faculty can be found in Appendix B (Demographic/KPI Data on Departments) and Appendix C (Research Profiles of Individual Faculty). Appendix D presents an inventory of funded

research and funding applications for faculty in these departments from 2005-2011. Departments are ordered alphabetically. Appendix E contains data on key performance indicators on all departments in colleges where SBE-related departments are located.

The faculty in the *Department of Agricultural Economics and Economics* engages in nationally and internationally recognized research in a range of substantive areas including Production Economics, Resource & Environmental Economics, Public Finance, Labor & Human Resources Economics, Industrial Organization, Political Economy, Econometrics, Applied Economics, Agricultural Finance and Marketing, Agricultural Policy, Extension Family Economics and Estate Planning & Financial Management. Support for the faculty's research comes from federal agencies (e.g., NSF, USDA, SBA, DOE), state agencies (e.g., MT Department of Public Health and Human Services) and private foundations (e.g., Ford, Spencer, Koch). The faculty engages in interdisciplinary research with fields that range from land resources and environmental sciences, plant sciences, political science and business to statistics, accounting, education and family and consumer sciences.

The faculty in the *College of Business* represents four broad areas: Management, Finance, Marketing and Accounting. Across those areas research interests focus in several areas: (1) entrepreneurship, start-ups, new ventures, and innovation (2) risk and perception of risk, and (3) personal and contextual factors that affect individual and organizational processes, decision-making and effectiveness. With respect to sponsored research, there are pockets of untapped potential among this young, well-trained and energetic faculty. In particular, the faculty has strong qualitative and quantitative research skills with the potential to conduct robust multi-method studies in collaboration with partners within and outside the College of Business. The faculty receives support from the college for travel to conferences.

The faculty in the *Department of Education* covers a breadth of domains in the STEM and learning sciences, which increases its capacity for doing interdisciplinary research. Education is a pragmatic discipline, and the Department embodies this by bridging theory and practice and helping people make connections in their everyday lives. The faculty recognizes that the vast majority of learning occurs outside school contexts, and its work extends to informal education. The faculty in the Department of Education connects to communities around the state, including educational leaders in rural and reservation communities, and through their schools the people of Montana connect to MSU. Presently the Department has over three dozen doctoral students, making it one of the largest doctoral programs at MSU. The Department has a history of funded research, and is supported by the Office of Funded Research under the Dean of Education, and Health and Human Development.

The faculty in the *Department of Health and Human Development* has diverse research interests that converge around enriching human well being. The Department's strengths lie in its interdisciplinary and translational research

activity, and its strong connections to the communities it serves. The faculty works closely with communities on topics ranging from sustainable food & nutrition systems, health in tribal communities and mental health in immigrant enclaves to strengthening families and supporting healthy understanding aging. Faculty have a strong record of external funding, and involve graduate and undergraduate students in their research activities. The Department is supported by the Office of Funded Research under the Dean of Education, and Health and Human Development.

The substantive strengths of the *Department of History, Philosophy and Religious Studies* include the history of science, technology and the environment. The Department has a Ph.D. program that focuses in this area, the only such program in the state. The history faculty includes historians of technology, modern science and physical sciences, but it does not include an historian of the biological sciences. The philosophy faculty includes those with strengths in the philosophy of science and ethicists, some of whom have already connected with interdisciplinary opportunities (e.g., the Astrobiology group at MSU). These strengths have allowed the Department to build bridges between natural sciences and humanities at MSU. In addition to these strengths, which align closely with interdisciplinary endeavors at MSU, the department is particularly strong in American history and especially history of the American West.

Nursing is an interdisciplinary and integrative field. Congruent with the land-grant mission of MSU, the *College of Nursing* has a research and teaching presence in communities around the state. Its faculty asks important questions about health and well-being, attends to physiological and social processes along with their interactions, and employs diverse methods including qualitative, quantitative, and community-based participatory research. Current projects focus on health disparities in underserved and rural communities (e.g., oral health, historical trauma); chronic illnesses, pain, and consequences of medical pathologies; complementary and alternative therapies and self-management of conditions; pregnancy and depression; environmental health (e.g., radon, asbestos; methyl-mercury); and end-of-life issues. The College of Nursing has a growing commitment to research with efforts led by an Associate Dean for Research and supported by an Office of Research.

The research program of the faculty of the *Department of Political Science* addresses diverse issues facing the individual; local, state, and national governments; and international regimes. These research efforts are unified by a common goal of illuminating the key challenges of making decisions for the common good, whether these decisions are for local governments or the World Trade Organization. The Department is currently focused on bringing the research skills and interests of its diverse and small faculty together to create a Project for Sustainable Democracy. Individual faculty interests include democratic governance and participatory politics; the political economy of the New West and tourism; community planning and health; American politics, Congress, the legislative process, and elections; contemporary political theory and virtue ethics; international relations and human rights; public policy and environmental decision making; and agricultural policy and

international trade. The faculty is research active and has a history of award winning publications, public outreach and some, but uneven, grant funding. We have an undergraduate program in political science and a masters program in Public Administration.

The faculty in the *Department of Psychology* has wide-ranging expertise in behavioral sciences, with the majority of faculty conducting research directly related to health. Research foci include social psychology, cognitive and neurosciences (e.g., attention, memory, aging, learning) and health and development (e.g., pollution and stress; eating disorders; obesity). Faculty are strong methodologists, with expertise in (1) measurement of psychological constructs and behaviors and (2) design and data analysis of experiments involving human subjects.

Sociology and Anthropology is a diverse department including Sociologists, Criminologists, and Cultural and Physical Anthropologists who focus on historical and contemporary human relationships, social inequality, and social institutions. The Sociology faculty includes nationally and internationally known scholars who do theoretically informed research on transnational migration, new immigrant destinations, racial and economic stratification and crime, educational inequality, educational policy, health disparities, family violence, environmental quality and family relations, ethnicity and substance use, and residential mobility and family processes. The Anthropology faculty is well known for research in archaeology that extends from the High Plains and mountain regions of Montana to Jordan, the Democratic Republic of the Congo, Namibia, and South Africa. The social and cultural anthropologists are also internationally recognized for research that deals with issues of politics and gender in Japan and concerns with representation, identity, and social change in the Republic of the Marshall Islands. In addition to their substantive contributions, the Sociology and Anthropology faculty has methodological expertise in field research, qualitative data collection and analysis, survey design, historical analyses, and complex statistical analyses. Members of the faculty have funded their research through federal agencies (e.g., NIH, NSF), state agencies (U.S. Forest Service, U.S. Bureau of Land Management), and private foundations (Spencer, Toyota, Suntory, and Hewlett). The department has a longstanding commitment to research and publication, often involving undergraduate students in the research process at all stages including as co-authors.

Interdisciplinary themes and opportunities for SBE sciences

Montana State University has significant interdisciplinary strengths in three broad areas: (1) Ecosystems and environmental sciences, the focus of the state's current National Science Foundation EPSCoR grant; (2) Biomedical sciences and human health, with National Institutes of Health support in areas including infectious diseases and health disparities; and (3) Energy, with US Department of Energy support for projects on carbon sequestration and other energy related areas. At the retreat, a subgroup of participants focused on interdisciplinary opportunities for the

SBE sciences, identifying key themes that draw on the current research strengths and interests of MSU faculty in the social sciences.

1) **Human impacts on the environment**, which includes questions about our place in the ecosystem and how to care for it, possibly using Yellowstone as an example. This focus was suggested as useful emphasis in addressing the larger concept of sustainability. Related to this theme is research on energy production possibilities and policies for Montana.

2) **Health and health disparities** is a theme that draws on research strengths in the study of health inequalities, including work with Montana's Native American communities. Work on infectious diseases, environmental health and other health related topics also falls under this theme.

3) **Challenges facing Montana as a large rural state** emerged in discussions of the need for interdisciplinary research into the effective provision of transportation and communication services.

The first two themes, in particular, fit well with the university's overarching interdisciplinary strengths. Each of the three themes points to areas where SBE scientists can collaborate with each other and with STEM researchers across campus.

Vision for SBE science research at MSU

Faculty present at the August 23 retreat concurred that MSU's SBE scientists are strong researchers with significant scholarly accomplishments. Building on that foundation, and capitalizing on the potential for further growth in SBE sciences at MSU, we envision a future in which:

- SBE sciences across campus will be strong and mature in and of themselves, driving important theoretical and applied research questions. SBE scientists will take the lead in developing research questions and providing theoretical frameworks for interdisciplinary research efforts. In interdisciplinary research involving natural sciences, SBE sciences will be equal partners, involved at the inception of proposal development.
- Both infrastructure and culture at university, college and department levels will support SBE research. Resources will be commensurate with expectations. That is, faculty will receive adequate start up packages and IT services to support their research agendas and make them competitive for external funding, where it is available. We will have clear understandings of what constitutes success in SBE disciplines at MSU.
- MSU will value the SBE sciences' distinct connections to the concerns of multiple communities.

- We will accomplish these things in ways that enhance rather than detract from undergraduate education.

Measurable outcomes

At the August 23 retreat, we identified measurable outcomes that might indicate our progress and success in achieving this vision. Work in this area remains, however, because we have not yet prioritized the outcomes nor have we identified specific amounts of growth or improvement to which we aspire.

The outcomes fall in several areas. The first are measurable outcomes indicative of disciplinary and interdisciplinary research productivity.

- Number of publications by faculty and departments will increase;
- Enhance further the quality and prominence of publication outlets among SBE faculty;
- Number of competitive external grants applied for and received by faculty and departments will increase;
- Average percent, across all SBE faculty, of academic duties formally allocated to research will increase;
- Median level of grant funding among SBE faculty will increase;
- Share of external funding at MSU that is secured by SBE faculty will increase;
- Rates of promotion and retention for research-active faculty will increase;
- Cross-institutional collaborations within and across disciplines will increase;
- Number of interdisciplinary partnerships that form, are funded, and get published will increase;
- Number of graduate and undergraduate students involved in SBE research will increase;
- Disciplinary diversity of graduate committees will increase;
- Interdisciplinary opportunities for students (e.g., research, team-taught courses) will increase;
- SBE-related research will lead to improvements in the well-being of communities.

Second are measurable outcomes related to job satisfaction for research-active SBE faculty:

- Job satisfaction of SBE faculty, as measured by surveys like COACHE, will increase;
- Satisfaction with work-life balance among SBE faculty will increase.

We also identified some proximate outcomes that would constitute steps on the path to increased funding for SBE research. Some of these outcomes represent strategies for increasing our research funding.

- Number of grant-writing workshops specifically targeted for SBE faculty will increase;

- Teaching loads of research-active SBE faculty will decrease, commensurate with the increase in research expectations;
- Availability of staff to support research-active SBE faculty will increase;
- Support for students working with research-active SBE faculty will grow;
- Opportunities for summer funding to support research activities of SBE faculty will grow.

Barriers and concerns

Faculty and academic administrators identified a range of concerns and barriers to increasing funded research. These concerns were raised in the June meetings with Dr. Olsen, and participants in the August 23 retreat were given the opportunity to amend or add to them. It is important to note that, while concerns may reflect circumstances in particular departments or colleges, participants across different departments and colleges reiterated almost all of these barriers and concerns.

Issues related to how we reward and credit faculty and departments for engaging in funded and interdisciplinary research. Department incentives to support funded research are insufficient or unclear. Faculty expressed concerns about receiving sufficient credit in Promotion and Tenure (P&T) processes and annual reviews for doing externally funded research and/or interdisciplinary research. Some are also concerned that raising the relative value we place on externally funded research may cause us to lower the relative value placed on research publications. For many faculty, service is integrally tied to research but service is not highly valued in Role & Scope documents, the P&T process, or annual reviews. Changes in recent years in indirect cost distribution policies may have created uncertainties that hinder externally funded research.

Issues related to research support infrastructure and communication. Themes centered on mentoring, pre- and post-award infrastructures, and communication with external stakeholders.

A dearth of successful, senior-level SBE grantees makes grant-writing *mentoring* hard to find. While MSU has a mentoring system for new instructors, we do not have a comparable system for new investigators. SBE program officers rarely visit our campus.

Some *pre-award* support resources are available or have been added recently (e.g., grant-writing consultants, budget preparation), but awareness of these services seems low. *Post-award* support is especially problematic. Many departments have insufficient human resources to engage in large-scale funded SBE research: graduate programs and students, sufficient tenure-track faculty to support graduate programs and larger research projects, laboratory space, and post-award support (e.g., on-going financial management, purchasing, billing). Statistical support for social science researchers is not systematically available.

External support for and interest in SBE research is low: As an institution, we do not generate sufficient external interest in and support for SBE research activities. We have not identified mechanisms to ensure recognition from the state of Montana or the Board of Regents for the valuable contributions of SBE research.

Issues related to culture and socialization of faculty new to funded research.

We do little to socialize new faculty to a culture that expects and rewards externally funded research, perhaps because that culture is still underdeveloped. New faculty orientation that focuses on values, expectations and resources, including identifying key players in funded research at MSU, is absent. SBE faculty lack knowledge about start up packages: what they look like across the university, what kinds of things they might ask for, how to most effectively and efficiently use those funds.

Issues related to distance. Faculty in some fields are geographically isolated, creating barriers to establishing collaborations. Also, faculty may be located far from research sites, creating additional burdens in conducting research. It is hard to know what expertise exists in the state (e.g., substantive, methodological) because we do not have a centralized database or communication forum for investigators to explore possible complementary expertise or collaborations.

Issues related to workload. Undergraduate student-faculty ratios in the social sciences are too high, given MSU's research expectations of faculty and hopes for external funding among SBE faculty. Teaching loads in some departments are inconsistent with conducting externally funded research or publishing in high-quality journals, especially when graduate TA support is insufficient or nonexistent or when undergraduate and graduate advising loads are heavy. Some departments are inflexible about the assignment of academic duties, making it difficult for faculty to free up time for externally funded research. While team-teaching may facilitate funded research, MSU does not have strong institutional support for team-teaching.

The lack of redundancy in expertise (i.e., very lean faculties) in departments that provide breadth in undergraduate education means that teaching is not easily reassigned to other faculty to accommodate course buyouts. MSU's geographic isolation results in some departments not having a local, affordable adjunct labor market.

When externally funded research is an add-on to current workloads, work-life balance suffers.

Issues related to compensation. Current time-and-effort reporting presents barriers to securing funding from multiple grants. The 20 percent additional compensation policy is less financially rewarding to lower-paid faculty (i.e., those in SBE disciplines) than to faculty in higher-paid disciplines. This is especially problematic given MSU's below-market-average salaries across colleges and departments.

APPENDICES

Appendix A: Office of Sponsored Projects Yearly Expenditures

Appendix B: Key Performance Indicators (KPI) summary on SBE-related departments and colleges, KPI definitions, KPI detail data for social science departments

Appendix C: Individual faculty profiles for SBE-related faculty

Appendix D: Inventory of SBE funded research at MSU: 2007-2011

Appendix E: Key Performance Indicators from all departments in the involved colleges (Agriculture; Business; Education, Health and Human Development; Letters and Science; and Nursing)

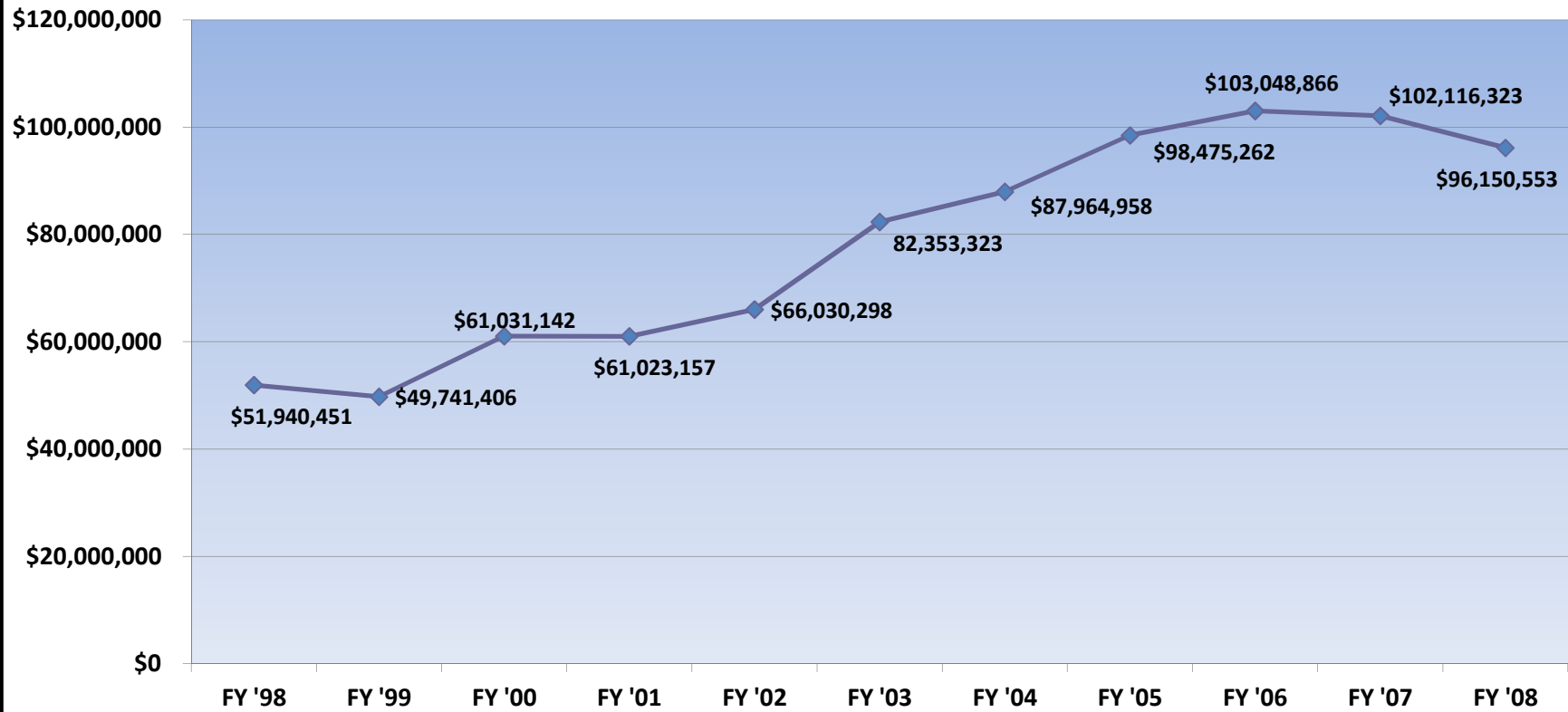
Appendix A: Office of Sponsored Projects Yearly Expenditures

**MONTANA STATE UNIVERSITY
RESEARCH AND OTHER SPONSORED PROGRAMS
EXPENDITURES FOR FISCAL YEARS 1997 THROUGH 2008**

	FY '98	FY '99	FY '00	FY '01	FY '02	FY '03	FY '04	FY '05	FY '06	FY '07	FY '08
COLLEGE OF AGRICULTURE	15,196,512	12,732,021	13,490,006	14,340,430	16,215,968	20,176,870	22,061,203	28,923,900	30,691,584	27,287,862	22,349,024
COLLEGE OF ARTS & ARCHITECTURE	590,392	542,858	897,957	866,314	715,607	1,217,912	2,890,935	1,555,312	1,434,701	1,822,154	982,664
COLLEGE OF BUSINESS	26,807	0	0	0	4,236	6,319	16,483	90,238	154,451	98,465	0
COLLEGE OF EDUCATION	2,876,320	2,694,891	3,527,415	3,605,791	3,986,224	4,780,952	6,980,231	7,554,700	8,452,746	7,149,508	6,334,978
COLLEGE OF ENGINEERING	3,832,766	8,693,829	8,961,070	9,965,170	9,295,105	11,609,201	11,539,303	10,772,065	12,834,811	15,435,614	17,386,821
CENTER FOR BIOFILM ENGINEERING *	3,936,454	0	0	0	0	0	0	0	0	0	0
COLLEGE OF LETTERS & SCIENCE	15,536,487	15,642,404	17,905,756	19,527,407	22,303,959	24,861,847	25,675,122	27,192,792	27,396,963	27,135,520	26,503,107
COLLEGE OF NURSING	572,605	593,058	584,695	827,576	891,229	1,072,269	1,590,271	1,822,653	1,393,681	1,171,279	1,337,704
UNIVERSITY PROGRAMS	9,372,108	8,842,345	15,664,243	11,890,469	12,617,970	18,627,953	17,211,410	20,563,602	20,689,929	22,015,921	21,256,255
TOTAL	\$51,940,451	\$49,741,406	\$61,031,142	\$61,023,157	\$66,030,298	82,353,323	\$87,964,958	\$98,475,262	\$103,048,866	\$102,116,323	\$96,150,553

* In FY '99 the Center for Biofilm Engineering research expenditures merged with the College of Engineering

Montana State University Research and Other Sponsored Programs - Expenditure Growth



	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
College of Agriculture											
Dean's Office	\$21,689	\$0	\$7,187	\$1,000	\$12,898	\$257,205	\$662,703	\$227,898	\$187,694	\$260,628	\$314,092
Agricultural Economics and Economics	\$1,025,271	\$1,372,746	\$1,418,983	\$1,592,271	\$1,887,228	\$1,297,188	\$1,150,036	\$1,104,649	\$1,122,659	\$375,709	\$322,709
Agricultural Education			\$36,046			\$15,859	\$39,055	\$39,149	\$2,348	\$28,687	\$94,813
Animal and Range Sciences	\$1,245,182	\$2,153,940	\$2,047,805	\$3,221,716	\$3,863,357	\$4,297,908	\$3,271,033	\$2,570,892	\$1,943,922	\$1,472,284	\$1,310,203
Entomology	\$1,189,587	\$1,420,967	\$1,663,254	\$1,516,693	\$1,470,527	\$45,650					
Plant Pathology											
Plant Sciences ⁽¹⁾	\$4,619,247	\$3,345,280	\$4,292,129	\$3,986,110		\$3,363,733	\$3,153,408	\$2,902,153	\$2,551,822	\$3,151,094	\$4,235,406
Plant, Soil and Environmental Science					\$2,205,298						
Land Resources and Environmental Sciences	\$2,539,698	\$3,099,364	\$4,025,391	\$4,444,825	\$7,670,313	\$8,834,954	\$5,406,124	\$5,043,785	\$4,718,335	\$5,542,305	\$5,130,790
Research Stations	\$748,167	\$965,999	\$1,295,600	\$1,151,564	\$1,786,882	\$1,387,473	\$1,084,546	\$751,368	\$452,192	\$394,598	\$650,838
Immunology & Infectious Diseases ⁽⁹⁾	\$2,951,589	\$3,857,671	\$5,390,475	\$6,147,024	\$10,027,397	\$11,191,614	\$12,520,957	\$9,709,130	\$7,849,682	\$9,504,351	\$9,935,865
SUBTOTAL	\$14,340,430	\$16,215,967	\$20,176,870	\$22,061,203	\$28,923,900	\$30,691,584	\$27,287,862	\$22,349,024	\$18,828,654	\$20,729,656	\$21,994,716
College of Arts and Architecture											
Dean's Office	\$10,806	\$15,745	\$3,022	\$0	\$0			\$0	\$137,208	\$176,861	\$195,405
Architecture	\$56,170	\$17,643	-\$2,816	\$38,751	\$40,522	\$76,289		\$129,366	\$130,080	\$117,002	\$141,167
Art	\$307	\$4,362	\$5,656	\$706	\$4,912	\$10,667	\$77,243	\$0			
Media and Theater Arts ⁽⁷⁾	\$29,856	\$14,389	\$95,808	\$46,372	\$29,065	\$7,398	\$30,359	\$59,529			
School of Film and Photography										\$42,678	\$8,061
Shakespeare in the Parks			\$17,160	\$48,633	\$56,836	\$57,592	\$21,250	\$58,387	\$127,621	\$42,996	\$64,373
KUSM ⁽⁶⁾	\$769,175	\$663,468	\$1,099,082	\$2,756,473	\$1,423,977	\$1,282,755	\$1,693,302	\$735,382	\$42,345		
SUBTOTAL	\$866,314	\$715,607	\$1,217,912	\$2,890,935	\$1,555,312	\$1,434,701	\$1,822,154	\$982,664	\$437,254	\$379,537	\$409,006
College of Business											
SUBTOTAL	\$0	\$4,236	\$6,319	\$16,483	\$90,238	\$154,451	\$98,465	-\$31	\$74,599	\$37,898	\$9,639
College of Education, Health & Human Development											
Dean's Office	\$447,993	\$623,869	\$830,979	\$1,276,191	\$1,326,798	\$1,859,311	\$1,383,811	\$565,412	\$1,990,532	\$1,829,878	\$2,199,984
Education	\$1,217,108	\$1,019,339	\$1,039,946	\$3,113,469	\$3,265,050	\$3,531,643	\$3,176,866	\$2,929,884	\$1,236,714	\$2,309,768	\$1,791,218
Health and Human Department	\$1,940,690	\$2,343,016	\$2,910,027	\$2,590,571	\$2,962,852	\$3,061,792	\$2,588,831	\$2,839,682	\$3,332,956	\$3,954,263	\$3,901,562
SUBTOTAL	\$3,605,791	\$3,986,224	\$4,780,952	\$6,980,231	\$7,554,700	\$8,452,746	\$7,149,508	\$6,334,978	\$6,560,202	\$8,093,909	\$7,892,764
College of Engineering											
Dean's Office	\$123,893	\$71,567	\$98,797	\$18,130	\$170	\$47,554	\$40,726	\$59,359	\$108,176	\$132,388	\$162,492
Chemical Engineering	\$370,571	\$263,158	\$330,318	\$584,208	\$607,298	\$757,085	\$991,198	\$1,354,177	\$1,790,568	\$1,312,239	\$1,205,492
Civil Engineering ⁽²⁾	\$3,739,117	\$4,134,263	\$5,171,898	\$4,429,405	\$545,288	\$539,575	\$817,216	\$1,409,630	\$714,709	\$54,392	\$140,352
Computer Science	\$155,986	\$114,245	\$205,942	\$208,331	\$170,018	\$94,278	\$207,119	\$308,281	\$427,908	\$732,813	\$405,480
Electrical and Computer Engineering	\$410,367	\$627,708	\$1,316,151	\$2,032,417	\$1,941,330	\$2,476,416	\$2,784,970	\$2,693,592	\$2,728,449	\$2,307,488	\$1,664,964
Industrial and Management Engineering	\$0	\$84,762									
Industrial and Mechanical Engineering	\$1,658,601	\$1,298,094	\$1,510,311	\$1,195,312	\$1,361,254	\$898,759	\$817,217	\$758,624	\$1,276,465	\$1,018,459	\$931,652
Center for Biofilm Engineering	\$3,506,635	\$2,701,308	\$2,975,784	\$3,071,500	\$2,954,255	\$3,108,949	\$3,151,963	\$2,796,022	\$2,811,792	\$3,074,656	\$3,648,632
MT Manufacturing Extension Ctr.						\$1,147,782	\$1,450,897	\$1,812,564	\$1,947,930	\$2,402,395	\$2,260,488
Western Transportation Institute					\$3,192,452	\$3,764,413	\$5,174,308	\$6,194,572	\$8,066,950	\$7,853,197	\$8,697,436
SUBTOTAL	\$9,965,170	\$9,295,105	\$11,609,201	\$11,539,303	\$10,772,065	\$12,834,811	\$15,435,614	\$17,386,821	\$19,872,947	\$18,888,027	\$19,116,988
College of Letters and Science											
Dean's Office	\$90,223	\$738,361	\$2,124,945	\$2,756,234	\$8,554			\$3,375,153		\$181,014	\$241,695
Biology	\$0	\$0									
Cell Biology and Neuroscience	\$1,788,356	\$1,047,900	\$2,579,886	\$3,097,890	\$7,228,510	\$7,045,160	\$4,567,886	\$2,971,493	\$2,658,700	\$3,373,134	\$2,433,395
Center for Computational Biology ⁽⁵⁾		\$1,315,618									
Chemistry and Biochemistry	\$4,247,609	\$5,164,051	\$4,625,357	\$4,712,517	\$5,420,175	\$4,507,667	\$7,766,617	\$6,292,106	\$9,951,032	\$12,270,691	\$9,367,381
Earth Sciences	\$466,096	\$859,039	\$579,446	\$402,360	\$796,239	\$1,260,199	\$1,196,770	\$961,830	\$738,774	\$961,613	\$960,184
Ecology	\$2,301,606	\$2,439,796	\$2,514,960	\$2,096,683	\$2,117,801	\$2,124,872	\$2,283,409	\$2,613,111	\$2,634,292	\$2,586,373	\$3,041,725
English	\$12,690	\$3,200	\$428		\$12,217	\$7,693	\$25,407	\$4,373	\$10,271	\$45,104	\$38,784
History and Philosophy	\$459	\$91,904	\$65,825	\$171,071	\$269,530	\$305,630	\$317,293	\$346,018	\$303,183	\$273,428	\$397,573
Mathematical Sciences	\$327,310	\$342,968	\$402,126	\$633,895	\$604,937	\$406,454	\$257,277	\$132,218	\$248,209	\$899,316	\$1,063,677
Microbiology	\$3,228,594	\$3,264,436	\$3,257,475	\$3,116,994	\$2,473,158	\$2,865,299	\$2,166,435	\$2,088,288	\$1,403,397	\$1,285,572	\$1,421,944
Modern Languages									\$43,027	\$64,794	\$60,272
Native American Studies	\$62,993	\$7,043	\$10,212					\$8,619	\$25,984	\$1,614	\$19
Physics	\$6,973,405	\$6,971,034	\$7,894,451	\$8,563,442	\$8,172,489	\$8,468,739	\$8,047,159	\$6,309,097	\$6,011,089	\$6,728,448	\$7,036,452
Political Science						\$274,047	\$351,240	\$214,196	\$206,710	\$162,814	\$109,590
Psychology	\$5,035	\$22,146	\$97,949	\$78,976	\$51,410	\$20,278	\$47,914	\$71,902	\$69,277	\$135,020	\$117,653
Sociology	\$23,029	\$36,468	\$15,185	\$45,060	\$37,772	\$110,925	\$108,113	\$89,003	\$148,460	\$144,842	\$271,329
SUBTOTAL	\$19,527,405	\$22,303,964	\$24,168,245	\$25,675,122	\$27,192,792	\$27,396,963	\$27,135,520	\$25,477,407	\$24,452,405	\$29,113,777	\$26,561,673
College of Nursing⁽⁸⁾											
SUBTOTAL	\$827,576	\$891,230	\$1,072,269	\$1,590,271	\$1,822,653	\$1,393,681	\$1,171,279	\$1,337,704	\$2,257,421	\$2,775,882	\$3,158,355
University Programs											
SUBTOTAL	\$11,890,469	\$12,617,958	\$19,321,555	\$17,211,410	\$20,563,602	\$20,689,929	\$22,015,921	\$22,281,986	\$25,948,209	\$29,463,008	\$23,624,150
GRAND TOTAL	\$61,023,155	\$66,030,291	\$82,353,323	\$87,964,958	\$98,475,262	\$103,048,866	\$102,116,323	\$96,150,553	\$98,431,691	\$109,481,694	\$102,767,291

⁽¹⁾ July 1, 1998, Plant Sciences Department was formed by merging plant science faculty from the Plant, Soil and Environmental Science Department, plant science faculty from the Biology Department and all faculty from the Plant Pathology Department. For FY 99 and FY00, includes Thermal Biology Institute

⁽²⁾ includes Western Transportation Institute ⁽³⁾ includes Montana Manufacturing Extension Center ⁽⁴⁾ includes Spectrum Lab

⁽⁵⁾ Starting in 2003, Center for Computational Biology is reported under Cell Biology and Neuroscience

⁽⁶⁾ Starting in FY2009, KUSM is reported under University Programs ⁽⁷⁾ Media and Theater Arts changed names in 2009 to Film and Photography

⁽⁸⁾ For FY10, Area Health Education Center (AHEC) is included in College of Nursing total ⁽⁹⁾ formerly Veterinary Molecular Biology

Appendix B: Summary background information on SBE-related departments and colleges (from Key Performance Indicators, 2010-11)

	Departments							Colleges	
	Ag Econ/Ec	Education	HHD	Hist/Phil	Poli Sci	Psych	Soc/Anth	Business	Nursing
Expenditures	\$1,091,510	\$1,996,397	\$2,045,880	\$1,647,532	\$509,330	\$833,877	\$776,971	\$3,686,775	\$4,590,634
Faculty FTE	10.5	25.8	26.9	22.8	7.0	10.3	10.9	40.8	59.3
% Tenure-track	81%	71%	65%	89%	96%	68%	97%	51%	24%
GTA FTE	2.5	5.0	7	5.0	0.5	5	0	2.5	4.0
SCH Lower	6667	3738	13503	10032	2319	4926	5004	9294	3120
SCH Upper	1944	7796	8461	4393	1708	3721	2606	12955	9530
SCH Grad	236	2424	1779	460	496	157	12	1252	1603
Total SCH	8847	13958	23743	14885	4523	8804	7622	23501	14253
Univ Sem SCH	0	321	0	144	0	0	0	918	0
Research SCH	126	266	762	371	150	417	235	831	515
Total SCH/Faculty FTE	843	541.2	881.9	651.7	646.1	852.0	698.3	576.3	240.4
with GTAs	680.8	453.3	699.9	534.7	603.1	574.2	698.3	543.0	225.2
UG FY FTE	287	384.5	732.1	480.8	134.2	288.2	253.7	741.6	421.7
Grad FY FTE	9.8	101	74.1	19.2	20.7	6.5	0.5	52.2	66.8
Total FY FTE	296.9	485.5	806.3	500	154.9	294.8	254.2	793.8	488.5
Expend/Student FTE	3677	4112	2537	3295	3288	2829	3057	4644	9398
Student FTE/Faculty FTE	28.3	18.8	29.9	21.9	22.1	28.5	23.3	19.5	8.2
with GTAs	22.8	15.8	23.8	18.0	20.7	19.2	23.3	18.3	7.7
Fresh/Soph majors	70	240	281	99	69	151	82	522	332
Jr/Sr/Post Bach majors	63	303	407	145	63	122	97	530	540
Second Majors	14	15	5	18	2	13	8	23	1
Grad majors	16	309	94	24	37	10	0	48	76
Total majors	163	867	787	286	171	296	187	1123	827
Majors/Faculty FTE	15.5	33.6	29.2	12.5	24.4	28.6	17.1	27.5	16.0
Bachelor's degrees	33	111	132	65	27	61	29	184	162
Grad degrees	1	73	33	4	14	4	0	41	20
Total	34	189	165	69	41	65	29	225	182

FTE=Full-Time Equivalent

GTA=Graduate Teaching Assistant

SCH=Student Credit Hours

Key Performance Indicators

FY11 Definitions

Contact: Chris Fastnow, Associate Director, Planning and Analysis

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Row Definitions

Expenditures: Fiscal Year expenditures in program 01 (Instruction), state funds only. Centralized expenditures (e.g. benefits, libraries, etc.) are not included.

Source: University Budget Office

Faculty FTE: For FY03 forward, the actual FTE in faculty positions paid in program 01, state funds (as of November payroll). Prior to FY03, this was budgeted FTE.

Source: Employee Snapshot based on Banner HR data, Office of Planning and Analysis

% Tenure-track: For FY03 forward, the actual FTE in faculty positions holding ranks of Assistant, Associate, or Full Professor, paid in program 01, state funds, divided by the Faculty FTE in the line above (as of November payroll). Prior to FY03, this was budgeted FTE in lines with rank.

Source: Employee Snapshot based on Banner HR data, Office of Planning and Analysis

GTA FTE: For FY03 forward, actual headcount graduate assistants (GTA, GRA, and GSA positions) with any portion of their stipend paid in program 01, state funds (as of November payroll), divided by 2. All GTAs are assumed to be .5 FTE for this report. Prior to FY03, this was budgeted FTE in GTA lines.

Source: Employee Snapshot based on Banner HR data, Office of Planning and Analysis

SCH Lower, Upper, Grad, Total: Starting in FY05, student credit hours produced by faculty in the department, in Summer, Fall, and Spring terms, as of census date each term. Graduate students taking 400 level courses are counted in the graduate SCH row. Credits follow tenure-track faculty to their home departments or are split across departments if the appointment is split. For example, a course taught by a tenure-track faculty member in Ecology in the BIOL subject code is counted in Ecology. A CLS 101US course taught by a tenure-track faculty member in Electrical and Computer Engineering is counted in ECE. Credits taught by a faculty member with a 30/70 split appointment are split 30/70 regardless of course subject code. Credits taught by adjunct faculty are counted in the department associated with the subject code. These numbers are similar but not identical to those generated in the Provost's Reallocation Model and the Delaware Study of Instructional Costs and Productivity.

Prior to FY05, most credit hours were counted in the department associated with the subject code, with some exceptions (notably BIOL and University Seminars), where faculty affiliation was followed.

Source: Registrar's Office, OCHE Data Warehouse, Courses database, departments' instructor reports, Office of Planning and Analysis

Univ Seminar SCH: Student credit hours generated by faculty within the department in university seminar courses (designated with US in the course number), in Summer, Fall, and Spring terms, as of 15th class day each term. Credits follow tenure-track instructors to their home departments. Credits taught by adjunct faculty are counted in the department associated with the subject code (e.g. CLS 101US credits taught by adjuncts are counted in Dean of Letters and Sciences, while those taught by a tenure-track faculty member are counted in the faculty's home department).

Source: Registrar's Office, OCHE Data Warehouse, Courses database, departments' instructor reports

Research SCH: Student credit hours taught in the department in research courses (designated by R in the course number), in Summer, Fall, and Spring terms, as of 15th class day each term. Credits are counted in the department associated with the subject code in all cases.

Source: Registrar's Office, OCHE Data Warehouse, Courses database

% Taught by Ten Track/SCH Lower: Percent of lower division student credit hours counted in the department that are taught by tenure-track faculty in the department. This includes university seminar instruction by tenure-track faculty.

Source: Registrar's Office, OCHE Data Warehouse, Courses database, departments' instructor reports, Delaware Study of Instructional Costs and Productivity, Office of Planning and Analysis

% Taught by Ten Track/Sections Lower: Percent of lower division sections counted in the department that are taught by tenure-track faculty in the department. This includes university seminar instruction by tenure-track faculty. In 2001, recitations were considered labs and not included; after 2001, credit-bearing recitations were included.

Source: Registrar's Office, OCHE Data Warehouse, Courses database, departments' instructor reports, Delaware Study of Instructional Costs and Productivity, Office of Planning and Analysis

Total SCH/Faculty FTE and Total SCH/Faculty FTE w/GTAs: The ratio of total FY SCH to Faculty FTE, without and with GTA FTE, as reported above.

Undergrad, Grad, Total FY FTE: Student FTE based on SCH reported above according to Montana University System definitions. Undergraduate FTE = 30 SCH per year. Graduate FTE = 24 SCH per year. Graduate students taking 400 level courses are counted as graduate FTE.

Expend/Student FTE: The ratio of expenditures to total FY FTE as reported above.

StudFTE/FacultyFTE and StudFTE/FacultyFTE w/ GTAs: The ratio of total student FTE to faculty FTE without and with GTA FTE, as reported above.

Majors: Headcount of majors in the department, by class standing, as of the census date of the Fall semester. Non-degree undergrads are counted in the fresh/soph line. Non-degree grads are counted in the jr/sr/post-bachelor line. Second majors were included starting in FY2002.

Source: Registrar's Office, OCHE Data Warehouse, Enrollment database, Office of Planning and Analysis

Majors/Faculty FTE: ratio of all majors, including second majors, to faculty FTE (excluding GTAs), as reported above.

Degrees: Degrees awarded to majors within the department in Summer, Fall, and Spring terms of the academic year. Students earning two degrees are counted in each awarding department. Graduate degrees are divided into masters/specialist and doctoral level degrees beginning in 2004-05. All graduate degrees appear in the masters line prior to that. Beginning in 2010-11, Gallatin College Programs certificates and associates degrees are reported separately.

Source: Registrar's Office, OCHE Data Warehouse, Graduates database, Office of Planning and Analysis

Column Definitions

Weighted Avg % Change/Yr (% years): The annual average change over the last 5 years of the series, with the most recent change weighted most heavily and weights declining as time passes.

5 year % change/10 year % change: The most recent year's value minus the value for 5/10 years ago, relative to the value for 5/10 years ago.

Agricultural Economics and Economics

	2001-02	2002-03‡	2003-04	2004-05*	2005-06	2006-07	2007-08	2008-09#	2009-2010	2010-2011	Weighted Avg % Change /Yr (5 years)	5 year % change	10 year % change
Expenditures	843,382	842,812	884,483	938,627	969,762	1,054,657	985,426	1,167,270	1,238,311	1,091,510	1.1%	3.5%	29.4%
Faculty FTE	10.4	14.7	12.2	12.5	11.4	11.8	10.8	11.7	11.3	10.5	-2.5%	-11.0%	1.4%
TTT Fac FTE				10.8	9.9	10.8	8.0	8.8	9.7	8.5	-2.0%	-20.9%	
% Tenure Track	83%	75%	73%	87%	87%	92%	74%	75%	86%	81%	0.3%	-11.1%	-2.4%
GTA FTE	0.8	2.0	2.0	2.5	2.5	2.5	2.5	3.5	3	2.5	-1.4%	0.0%	202.7%
SCH Lower	7,164	7,002	7,089	6,948	7,121	6,947	6,901	7,026	6,666	6,667	-1.3%	-4.0%	-6.9%
SCH Upper	2,315	2,519	2,265	2,155	2,257	2,277	2,253	2,319	2,233	1,944	-4.8%	-14.6%	-16.0%
SCH Grad	140	138	164	246	193	235	311	257	289	236	-0.5%	0.4%	68.6%
Total FY SCH	9,619	9,659	9,518	9,349	9,571	9,459	9,465	9,602	9,188	8,847	-2.2%	-6.5%	-8.0%
Univ Seminar SCH				0	0	0	0	0	0	0			
Research SCH				145	129	131	144	164	123	126	-1.6%	-3.8%	
% Taught by Ten Track													
SCH Lower	37%	26%	28%	73%	25%	62%	46%	17%	40%		38.5%	60.0%	
Sections Lower	55%	30%	40%	70%	36%	80%	25%	20%	46%		37.3%	27.8%	
Total SCH/ Faculty FTE	929.1	657.2	782.0	750.3	843.2	802.0	877.4	818.7	812.0	843.0	0.6%	5.1%	-9.3%
w/ GTAs	860.5	578.5	671.6	624.9	691.0	661.7	712.4	630.5	641.8	680.8	0.9%	2.9%	-20.9%
Undergrad FY FTE	316.0	317.4	311.8	303.4	312.6	307.5	305.1	311.5	296.6	287.0	-2.1%	-6.6%	-9.2%
Graduate FY FTE	5.8	5.8	6.8	10.3	8.0	9.8	13.0	10.7	12.0	9.8	-0.5%	0.4%	68.6%
Total FY FTE	321.8	323.1	318.6	313.7	320.6	317.3	318.1	322.2	308.7	296.9	-2.2%	-6.4%	-7.7%
Expend/Student FTE	2,621	2,608	2,776	2,992	3,024	3,324	3,098	3,623	4,012	3,677	3.2%	10.6%	40.3%
StudFTE/FacultyFTE	31.1	22.0	26.2	25.2	28.2	26.9	29.5	27.5	27.3	28.3	0.6%	5.2%	-9.0%
w/ GTAs	28.8	19.4	22.5	21.0	23.1	22.2	23.9	21.2	21.6	22.8	0.9%	2.9%	-20.6%
Fresh/Soph Majors	48	53	44	60	56	35	34	54	68	70	16.8%	100.0%	45.8%
Jr/Sr/PostBach Majors	63	61	78	71	56	69	64	74	68	63	-0.9%	-8.7%	0.0%
Second Majors	2	6	4	11	12	18	9	20	15	14	12.2%	-22.2%	600.0%
Graduate Majors	11	7	10	15	11	13	18	19	18	16	2.3%	23.1%	45.5%
Total Majors	124	127	136	157	135	135	125	167	169	163	4.9%	20.7%	31.5%
Majors/Faculty FTE	12.0	8.6	11.2	12.6	11.9	11.4	11.6	14.2	14.9	15.5	7.1%	35.7%	29.7%
Bachelor's Degrees	35	28	31	41	31	37	27	39	47	33	2.1%	-10.8%	-5.7%
Masters/Spec Degrees	8	0	0	5	5	2	4	7	10	1	5.8%	-50.0%	-87.5%
Doctoral Degrees**				0	0	0	0	0	0	0			
Total	43	28	31	46	36	39	31	46	57	34	0.4%	-12.8%	-20.9%

*SCH, FTE, and university seminar counts, and ratios based upon them, changed in FY05 to consistently follow the instructor's appointment rather than the subject code.

‡ Faculty FTE and % Tenure Track calculations changed in FY03 from budgeted FTE to Fall actuals. Graduate FTE assumes each headcount graduate assistant paid through program 01 is .5 FTE

Excludes benefits expenditures

**Graduate degrees were aggregated prior to 2004-05 and shown in the masters line.

Education

	2001-02	2002-03‡	2003-04	2004-05*	2005-06	2006-07	2007-08	2008-09#	2009-2010	2010-2011	Weighted Avg % Change /Yr (5 years)	5 year % change	10 year % change
Expenditures	1,820,796	2,072,429	1,998,227	2,112,949	2,187,438	2,294,379	2,302,776	2,081,471	2,051,407	1,996,397	-2.8%	-13.0%	9.6%
Faculty FTE	29.3	32.4	29.9	28.3	30.4	30.0	29.9	28.9	27.7	25.8	-4.2%	-14.1%	-12.0%
TTT Fac FTE				19.4	21.2	21.1	19.9	19.2	17.6	18.4	-2.1%	-12.8%	
% Tenure Track	82%	62%	67%	69%	70%	70%	66%	66%	64%	71%	2.3%	1.6%	-13.0%
GTA FTE	2.5	4.0	4.5	4.0	4.0	4.5	5.0	2.5	1.5	5.0	59.4%	11.1%	103.1%
SCH Lower	2,974	2,432	2,670	2,654	2,844	2,635	2,589	2,919	2,989	3,738	10.8%	41.9%	25.7%
SCH Upper	9,721	10,546	11,376	9,637	8,418	8,476	8,066	8,082	7,614	7,796	-1.3%	-8.0%	-19.8%
SCH Grad	2,763	2,799	3,227	3,065	2,682	2,710	2,905	3,038	3,161	2,424	-4.7%	-10.5%	-12.3%
Total FY SCH	15,458	15,777	17,273	15,356	13,945	13,821	13,560	14,039	13,764	13,958	0.3%	1.0%	-9.7%
Univ Seminar SCH				132	198	186	144	240	234	321	21.6%	72.6%	
Research SCH				24	9	31	170	299	452	266	91.2%	758.1%	
% Taught by Ten Track													
SCH Lower	62%	38%	68%	62%	39%	45%	61%	54%	63%		9.2%	61.5%	
Sections Lower	58%	62%	79%	64%	47%	50%	61%	56%	60%		3.7%	27.7%	
Total SCH/ Faculty FTE	527.2	487.5	576.9	542.9	458.4	460.2	453.0	485.1	496.2	541.2	4.9%	17.6%	2.7%
w/ GTAs	486.4	433.9	501.5	475.6	405.1	400.3	388.2	446.5	470.7	453.3	2.7%	13.3%	-6.8%
Undergrad FY FTE	423.2	432.6	468.2	409.7	375.4	370.4	355.2	366.7	353.4	384.5	2.0%	3.8%	-9.1%
Graduate FY FTE	115.1	116.6	134.5	127.7	111.8	112.9	121.0	126.6	131.7	101.0	-4.7%	-10.5%	-12.3%
Total FY FTE	538.3	549.2	602.7	537.4	487.2	483.3	476.2	493.3	485.1	485.5	0.1%	0.5%	-9.8%
Expend/Student FTE	3,383	3,773	3,316	3,932	4,490	4,748	4,836	4,220	4,228	4,112	-2.8%	-13.4%	21.6%
StudFTE/FacultyFTE	18.4	17.0	20.1	19.0	16.0	16.1	15.9	17.0	17.5	18.8	4.5%	17.0%	2.5%
w/ GTAs	16.9	15.1	17.5	16.6	14.2	14.0	13.6	15.7	16.6	15.8	2.5%	12.7%	-6.9%
Fresh/Soph Majors	328	290	263	256	274	235	201	183	203	240	4.3%	2.1%	-26.8%
Jr/Sr/PostBach Majors	464	484	445	408	372	361	320	340	310	303	-3.6%	-16.1%	-34.7%
Second Majors	8	5	5	4	5	6	7	5	10	15	41.2%	150.0%	87.5%
Graduate Majors	101	108	172	166	134	155	183	211	270	309	18.8%	99.4%	205.9%
Total Majors	901	887	885	834	785	757	711	739	793	867	4.8%	14.5%	-3.8%
Majors/Faculty FTE	30.7	27.4	29.6	29.5	25.8	25.2	23.8	25.5	28.6	33.6	9.6%	33.4%	9.4%
Bachelor's Degrees	158	140	152	152	137	131	113	96	110	111	-0.9%	-15.3%	-29.7%
Masters/Spec Degrees**	41	36	53	63	27	54	64	61	78	73	13.5%	35.2%	78.0%
Doctoral Degrees**				9	6	9	5	9	9	5	-1.4%	-44.4%	
Total	199	176	205	224	170	194	182	166	197	189	2.0%	-2.6%	-5.0%

*SCH, FTE, and university seminar counts, and ratios based upon them, changed in FY05 to consistently follow the instructor's appointment rather than the subject code.

‡ Faculty FTE and % Tenure Track calculations changed in FY03 from budgeted FTE to Fall actuals. Graduate FTE assumes each headcount graduate assistant paid through program 01 is .5 FTE

Excludes benefits expenditures

**Graduate degrees were aggregated prior to 2004-05 and shown in the masters line.

Health and Human Development

	2001-02	2002-03‡	2003-04	2004-05*	2005-06	2006-07	2007-08	2008-09#	2009-2010	2010-2011	Weighted Avg % Change /Yr (5 years)	5 year % change	10 year % change
Expenditures	1,589,533	1,718,652	1,756,747	1,710,946	1,777,277	1,911,207	2,073,643	2,096,168	2,257,287	2,045,880	0.8%	7.0%	28.7%
Faculty FTE	27.3	28.5	25.3	29.2	27.9	27.0	27.8	26.7	26.4	26.9	-0.3%	-0.4%	-1.3%
TTT Fac FTE				22.3	23.7	23.3	21.8	18.2	18.3	17.6	-5.4%	-24.4%	
% Tenure Track	81%	77%	77%	76%	85%	86%	78%	68%	69%	65%	-5.1%	-24.1%	-19.0%
GTA FTE	1.5	9.5	6.5	4.5	6.0	6.0	7.5	6.0	5.5	7.0	6.2%	16.7%	364.2%
SCH Lower	11,601	11,730	11,578	12,801	12,420	11,757	12,050	11,728	13,041	13,503	3.6%	14.9%	16.4%
SCH Upper	6,857	6,417	6,075	6,046	6,766	7,118	7,387	8,305	8,460	8,461	3.8%	18.9%	23.4%
SCH Grad	1,836	1,844	1,758	1,528	1,832	1,564	1,742	1,679	1,651	1,779	2.0%	13.7%	-3.1%
Total FY SCH	20,294	19,991	19,411	20,375	21,018	20,439	21,179	21,712	23,152	23,743	3.4%	16.2%	17.0%
Univ Seminar SCH				0	0	0	0	0	0	0			
Research SCH				49	87	33	817	630	852	762	313.9%	2209.1%	
% Taught by Ten Track													
SCH Lower	12%	30%	21%	14%	16%	22%	34%	27%	30%		15.1%	87.5%	
Sections Lower	17%	38%	32%	29%	23%	25%	41%	22%	30%		12.3%	30.4%	
Total SCH/ Faculty FTE w/ GTAs	743.7 704.8	702.4 526.6	767.7 610.7	698.5 605.1	752.4 619.4	756.1 618.8	760.7 599.3	812.4 663.5	875.7 724.9	881.9 699.9	3.8% 3.0%	16.6% 13.1%	18.6% -0.7%
Undergrad FY FTE	615.3	604.9	588.4	628.2	639.5	629.2	647.9	667.8	716.7	732.1	3.6%	16.4%	19.0%
Graduate FY FTE	76.5	76.8	73.3	63.7	76.3	65.2	72.6	69.9	68.8	74.1	2.0%	13.7%	-3.1%
Total FY FTE	691.8	681.7	661.7	691.9	715.9	694.3	720.5	737.7	785.5	806.3	3.4%	16.1%	16.6%
Expend/Student FTE	2,298	2,521	2,655	2,473	2,483	2,753	2,878	2,841	2,874	2,537	-2.5%	-7.8%	10.4%
StudFTE/FacultyFTE w/ GTAs	25.4 24.0	24.0 18.0	26.2 20.8	23.7 20.5	25.6 21.1	25.7 21.0	25.9 20.4	27.6 22.5	29.7 24.6	29.9 23.8	3.7% 3.0%	16.6% 13.1%	18.1% -1.1%
Fresh/Soph Majors	210	200	198	221	225	230	235	242	282	281	5.3%	22.2%	33.8%
Jr/Sr/PostBach Majors	321	304	287	259	320	327	330	375	388	407	5.6%	24.5%	26.8%
Second Majors	4	5	4	3	9	4	5	8	6	5	-0.6%	25.0%	25.0%
Graduate Majors	67	74	85	72	89	78	94	88	74	94	5.4%	20.5%	40.3%
Total Majors	602	583	574	555	643	639	664	713	750	787	5.0%	23.2%	30.7%
Majors/Faculty FTE	22.1	20.5	22.7	19.0	23.0	23.6	23.9	26.7	28.4	29.2	5.4%	23.7%	32.5%
Bachelor's Degrees	141	122	116	103	115	119	126	130	159	132	1.9%	10.9%	-6.4%
Masters/Spec Degrees**	37	21	39	30	20	37	24	47	26	33	17.2%	-10.8%	-10.8%
Doctoral Degrees**				0	1	0	0	0	0	0			
Total	178	143	155	133	136	156	150	177	185	165	1.7%	5.8%	-7.3%

*SCH, FTE, and university seminar counts, and ratios based upon them, changed in FY05 to consistently follow the instructor's appointment rather than the subject code.

‡ Faculty FTE and % Tenure Track calculations changed in FY03 from budgeted FTE to Fall actuals. Graduate FTE assumes each headcount graduate assistant paid through program 01 is .5 FTE

Excludes benefits expenditures

**Graduate degrees were aggregated prior to 2004-05 and shown in the masters line.

History and Philosophy

	2001-02	2002-03‡	2003-04	2004-05*	2005-06	2006-07	2007-08	2008-09#	2009-2010	2010-2011	Weighted Avg % Change /Yr (5 years)	5 year % change	10 year % change
Expenditures	1,038,646	1,122,471	1,232,287	1,291,820	1,306,732	1,384,548	1,601,583	1,501,635	1,492,047	1,647,532	4.5%	19.0%	58.6%
Faculty FTE	18.8	19.9	20.1	21.9	20.1	19.6	22.6	20.6	20.5	22.8	3.8%	16.6%	21.8%
TTT Fac FTE				17.6	17.6	17.1	19.5	18.1	18.5	20.3	0.0	0.2	
% Tenure Track	95%	79%	82%	80%	88%	87%	86%	88%	90%	89%	0.5%	2.3%	-5.8%
GTA FTE	0.8	3.0	2.0	2.5	4.0	2.0	2.0	2.5	3.5	5.0	26.6%	150.0%	539.1%
SCH Lower	11,022	13,063	14,180	11,622	12,662	11,725	10,522	8,694	9,703	10,032	-1.1%	-14.4%	-9.0%
SCH Upper	3,207	3,260	3,354	3,829	4,050	4,283	4,106	4,274	4,216	4,393	1.7%	2.6%	37.0%
SCH Grad	437	335	349	361	410	364	332	418	438	460	6.2%	26.4%	5.3%
Total FY SCH	14,666	16,658	17,883	15,812	17,122	16,372	14,960	13,386	14,357	14,885	-0.4%	-9.1%	1.5%
Univ Seminar SCH				177	134	147	93	93	93	144	14.1%	-2.0%	
Research SCH				405	226	227	349	376	279	371	12.9%	63.4%	
% Taught by Ten Track													
SCH Lower	61%	52%	70%	70%	77%	68%	57%	38%	42%		-9.5%	-45.5%	
Sections Lower	76%	54%	69%	62%	76%	69%	60%	38%	40%		-10.4%	-47.4%	
Total SCH/ Faculty FTE	782.0	835.8	887.9	723.4	853.6	835.6	662.1	650.9	700.0	651.7	-3.5%	-22.0%	-16.7%
w/ GTAs	750.7	726.5	807.7	649.1	711.6	758.2	608.3	580.4	598.0	534.7	-5.8%	-29.5%	-28.8%
Undergrad FY FTE	474.3	544.1	584.5	515.0	557.1	533.6	487.6	432.3	464.0	480.8	-0.5%	-9.9%	1.4%
Graduate FY FTE	18.2	14.0	14.5	15.0	17.1	15.2	13.8	17.4	18.3	19.2	6.2%	26.4%	5.3%
Total FY FTE	492.5	558.1	599.0	530.1	574.1	548.8	501.4	449.7	482.2	500.0	-0.3%	-8.9%	1.5%
Expend/Student FTE	2,109	2,011	2,057	2,437	2,276	2,523	3,194	3,339	3,094	3,295	5.4%	30.6%	56.2%
StudFTE/FacultyFTE	26.3	28.0	29.7	24.2	28.6	28.0	22.2	21.9	23.5	21.9	-3.5%	-21.8%	-16.6%
w/ GTAs	25.2	24.3	27.1	21.8	23.9	25.4	20.4	19.5	20.1	18.0	-5.8%	-29.3%	-28.8%
Fresh/Soph Majors	50	51	61	73	97	99	83	86	78	99	5.2%	0.0%	98.0%
Jr/Sr/PostBach Majors	101	94	107	109	112	157	143	131	135	145	3.1%	-7.6%	43.6%
Second Majors	11	5	6	5	11	19	15	17	16	18	7.3%	-5.3%	63.6%
Graduate Majors	26	21	21	18	25	21	26	30	30	24	-1.5%	14.3%	-7.7%
Total Majors	188	171	195	205	245	296	267	264	259	286	2.8%	-3.4%	52.1%
Majors/Faculty FTE	10.0	8.6	9.7	9.4	12.2	15.1	11.8	12.8	12.6	12.5	-0.3%	-17.1%	24.9%
Bachelor's Degrees	42	36	36	45	44	65	51	61	51	65	9.0%	0.0%	54.8%
Masters/Spec Degrees**	11	7	9	8	5	6	3	7	12	4	18.2%	-33.3%	-63.6%
Doctoral Degrees**				0	0	0	0	0	0	0			
Total	53	43	45	53	49	71	54	68	63	69	6.2%	-2.8%	30.2%

*SCH, FTE, and university seminar counts, and ratios based upon them, changed in FY05 to consistently follow the instructor's appointment rather than the subject code.

‡ Faculty FTE and % Tenure Track calculations changed in FY03 from budgeted FTE to Fall actuals. Graduate FTE assumes each headcount graduate assistant paid through program 01 is .5 FTE

Excludes benefits expenditures

**Graduate degrees were aggregated prior to 2004-05 and shown in the masters line.

Political Science

	2001-02	2002-03‡	2003-04	2004-05*	2005-06	2006-07	2007-08	2008-09#	2009-2010	2010-2011	Weighted Avg % Change /Yr (5 years)	5 year % change	10 year % change
Expenditures	432,614	481,357	464,698	423,648	488,129	529,114	517,171	568,713	529,499	509,330	-0.9%	-3.7%	17.7%
Faculty FTE	6.2	7.5	7.1	5.9	6.5	6.4	6.4	8.4	7.0	7.0	1.6%	9.1%	12.8%
TTT Fac FTE				4.0	6.3	5.8	5.8	6.8	6.8	6.8	0.0	0.2	
% Tenure Track	100%	80%	84%	68%	96%	90%	90%	81%	96%	96%	2.8%	7.6%	-3.6%
GTA FTE	0.2	0.5	1.0	0.5	0.5	1.0	1.0	0.5	0.5	0.5	-3.3%	-50.0%	188.1%
SCH Lower	2,214	2,628	2,544	2,271	2,226	2,394	2,487	2,754	2,223	2,319	-0.5%	-3.1%	4.7%
SCH Upper	1,714	2,123	2,132	2,112	2,220	1,904	1,783	1,733	1,748	1,708	-2.9%	-10.3%	-0.4%
SCH Grad	285	360	279	287	369	369	346	327	438	496	11.5%	34.4%	74.0%
Total FY SCH	4,213	5,111	4,955	4,670	4,815	4,667	4,616	4,814	4,409	4,523	-0.9%	-3.1%	7.4%
Univ Seminar SCH				0	0	0	0	0	0	0			
Research SCH				42	12	219	90	97	122	150	123.2%	-31.5%	
% Taught by Ten Track													
SCH Lower	40%	51%	45%	26%	37%	27%	53%	73%	100%		40.9%	170.3%	
Sections Lower	40%	50%	57%	33%	40%	33%	57%	71%	100%		33.8%	150.0%	
Total SCH/ Faculty FTE	678.7	681.5	695.4	795.8	740.8	727.4	719.5	574.5	629.9	646.1	-0.9%	-11.2%	-4.8%
w/ GTAs	660.2	638.9	609.8	733.4	687.9	629.3	622.4	542.1	587.9	603.1	-0.2%	-4.2%	-8.7%
Undergrad FY FTE	130.9	158.4	155.9	146.1	148.2	143.3	142.3	149.6	132.4	134.2	-1.9%	-6.3%	2.5%
Graduate FY FTE	11.9	15.0	11.6	12.0	15.4	15.4	14.4	13.6	18.3	20.7	11.5%	34.4%	74.0%
Total FY FTE	142.8	173.4	167.5	158.1	163.6	158.6	156.8	163.2	150.6	154.9	-0.6%	-2.4%	8.5%
Expend/Student FTE	3,029	2,777	2,774	2,680	2,984	3,335	3,299	3,485	3,516	3,288	-0.2%	-1.4%	8.5%
StudFTE/FacultyFTE	23.0	23.1	23.5	26.9	25.2	24.7	24.4	19.5	21.5	22.1	-0.6%	-10.5%	-3.8%
w/ GTAs	22.4	21.7	20.6	24.8	23.4	21.4	21.1	18.4	20.1	20.7	0.1%	-3.5%	-7.7%
Fresh/Soph Majors	61	68	60	68	67	48	62	50	59	69	8.6%	43.8%	13.1%
Jr/Sr/PostBach Majors	53	67	82	67	74	78	66	58	63	63	-1.8%	-19.2%	18.9%
Second Majors	1	1	1	3	4	6	6	6	6	2	-18.9%	-66.7%	100.0%
Graduate Majors	8	23	22	18	22	22	20	25	30	37	16.9%	68.2%	362.5%
Total Majors	123	159	165	156	167	154	154	139	158	171	3.9%	11.0%	39.0%
Majors/Faculty FTE	19.8	21.2	23.2	26.6	25.7	24.0	24.0	16.6	22.6	24.4	5.7%	1.8%	23.3%
Bachelor's Degrees	23	27	46	35	34	46	32	27	28	27	-5.0%	-41.3%	17.4%
Masters/Spec Degrees**	2	4	7	8	6	12	10	8	7	14	30.4%	16.7%	600.0%
Doctoral Degrees**				0	0	0	0	0	0	0			
Total	25	31	53	43	40	58	42	35	35	41	1.7%	-29.3%	64.0%

*SCH, FTE, and university seminar counts, and ratios based upon them, changed in FY05 to consistently follow the instructor's appointment rather than the subject code.

‡ Faculty FTE and % Tenure Track calculations changed in FY03 from budgeted FTE to Fall actuals. Graduate FTE assumes each headcount graduate assistant paid through program 01 is .5 FTE

Excludes benefits expenditures

**Graduate degrees were aggregated prior to 2004-05 and shown in the masters line.

Psychology

	2001-02	2002-03‡	2003-04	2004-05*	2005-06	2006-07	2007-08	2008-09#	2009-2010	2010-2011	Weighted Avg % Change /Yr (5 years)	5 year % change	10 year % change
Expenditures	731,400	745,741	818,307	739,925	678,962	778,345	762,825	782,096	918,275	833,877	2.8%	7.1%	14.0%
Faculty FTE	11.3	11.0	11.5	12.0	11.7	11.1	9.0	9.4	10.4	10.3	0.7%	-6.5%	-8.3%
TTT Fac FTE				6.0	4.7	5.0	7.0	7.0	8.0	7.0	0.1	0.4	
% Tenure Track	69%	55%	61%	50%	40%	45%	78%	75%	77%	68%	6.5%	49.7%	-2.5%
GTA FTE	1.0	3.5	5.0	5.0	3.5	4.5	5.0	5.0	4.5	5.0	4.4%	11.1%	393.4%
SCH Lower	7,827	8,250	7,365	3,834	3,936	4,055	3,796	3,576	3,958	4,926	9.2%	21.5%	-37.1%
SCH Upper	3,087	2,742	2,998	2,589	2,695	2,920	3,046	3,102	3,565	3,721	6.9%	27.4%	20.5%
SCH Grad	250	217	225	221	165	218	189	143	166	157	-2.0%	-28.0%	-37.2%
Total FY SCH	11,164	11,209	10,588	6,644	6,796	7,193	7,031	6,821	7,689	8,804	7.7%	22.4%	-21.1%
Univ Seminar SCH				0	0	0	0	0	0	0			
Research SCH				119	142	280	291	330	389	417	16.9%	48.9%	
% Taught by Ten Track													
SCH Lower	6%	9%	5%	7%	3%	3%	15%	14%	14%		74.4%	366.7%	
Sections Lower	8%	5%	5%	7%	4%	5%	22%	20%	25%		74.4%	525.0%	
Total SCH/ Faculty FTE	990.3	1019.0	920.7	553.7	579.9	651.0	781.2	727.6	741.1	852.0	7.6%	30.9%	-14.0%
w/ GTAs	908.6	773.0	641.7	390.8	446.5	462.6	502.2	474.5	516.9	574.2	6.4%	24.1%	-36.8%
Undergrad FY FTE	363.8	366.4	345.4	214.1	221.0	232.5	228.1	222.6	250.8	288.2	8.0%	24.0%	-20.8%
Graduate FY FTE	10.4	9.0	9.4	9.2	6.9	9.1	7.9	6.0	6.9	6.5	-2.0%	-28.0%	-37.2%
Total FY FTE	374.2	375.4	354.8	223.3	227.9	241.6	235.9	228.6	257.7	294.8	7.7%	22.0%	-21.2%
Expend/Student FTE	1,954	1,986	2,306	3,313	2,979	3,222	3,233	3,422	3,564	2,829	-4.0%	-12.2%	44.7%
StudFTE/FacultyFTE	33.2	34.1	30.9	18.6	19.4	21.9	26.2	24.4	24.8	28.5	7.5%	30.5%	-14.1%
w/ GTAs	30.5	25.9	21.5	13.1	15.0	15.5	16.9	15.9	17.3	19.2	6.3%	23.7%	-36.9%
Fresh/Soph Majors	115	122	115	100	105	124	101	96	112	151	13.8%	21.8%	31.3%
Jr/Sr/PostBach Majors	112	122	126	116	100	98	103	120	126	122	4.1%	24.5%	8.9%
Second Majors	6	10	7	7	9	4	7	11	8	13	31.3%	225.0%	116.7%
Graduate Majors	16	12	11	13	10	11	11	10	9	10	-0.1%	-9.1%	-37.5%
Total Majors	249	266	259	236	224	237	222	237	255	296	8.3%	24.9%	18.9%
Majors/Faculty FTE	22.1	24.2	22.5	19.7	19.1	21.4	24.7	25.3	24.6	28.6	8.1%	33.6%	29.7%
Bachelor's Degrees	53	49	60	62	50	39	45	40	57	61	12.0%	56.4%	15.1%
Masters/Spec Degrees**	5	7	2	9	5	6	3	4	4	4	1.3%	-33.3%	-20.0%
Doctoral Degrees**				0	0	0	0	0	0	0			
Total	58	56	62	71	55	45	48	44	61	65	10.5%	44.4%	12.1%

*SCH, FTE, and university seminar counts, and ratios based upon them, changed in FY05 to consistently follow the instructor's appointment rather than the subject code.

‡ Faculty FTE and % Tenure Track calculations changed in FY03 from budgeted FTE to Fall actuals. Graduate FTE assumes each headcount graduate assistant paid through program 01 is .5 FTE

Excludes benefits expenditures

**Graduate degrees were aggregated prior to 2004-05 and shown in the masters line.

Sociology and Anthropology

	2001-02	2002-03‡	2003-04	2004-05*	2005-06	2006-07	2007-08	2008-09#	2009-2010	2010-2011	Weighted Avg % Change /Yr (5 years)	5 year % change	10 year % change
Expenditures	638,142	703,476	685,172	720,232	699,761	739,710	784,803	811,006	766,086	776,971	0.9%	5.0%	21.8%
Faculty FTE	11.6	12.3	11.7	13.3	11.8	11.7	12.0	12.2	10.8	10.9	-2.1%	-7.0%	-5.9%
TTT Fac FTE				12.0	10.5	11.7	10.5	11.5	9.4	10.5	0.0	-0.1	
% Tenure Track	91%	87%	77%	90%	89%	100%	88%	95%	87%	97%	2.3%	-3.4%	6.0%
GTA FTE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
SCH Lower	5,364	5,460	5,919	4,341	4,305	4,596	4,365	4,581	5,157	5,004	3.1%	8.9%	-6.7%
SCH Upper	2,691	2,658	3,192	3,275	3,407	3,106	3,003	2,781	2,616	2,606	-4.2%	-16.1%	-3.2%
SCH Grad	12	15	17	7	0	3	15	8	0	12		300.0%	0.0%
Total FY SCH	8,067	8,133	9,128	7,623	7,712	7,705	7,383	7,370	7,773	7,622	0.2%	-1.1%	-5.5%
Univ Seminar SCH				0	144	132	96	24	0	0		-100.0%	
Research SCH				161	341	255	282	210	352	235	1.6%	-7.8%	
% Taught by Ten Track													
SCH Lower	83%	80%	62%	74%	40%	60%	67%	70%	72%		8.1%	80.0%	
Sections Lower	80%	83%	80%	70%	70%	75%	82%	70%	75%		1.3%	7.1%	
Total SCH/ Faculty FTE	695.2	659.6	782.8	571.7	651.9	656.3	613.2	605.7	722.7	698.3	3.0%	6.4%	0.4%
w/ GTAs	695.2	659.6	782.8	571.7	651.9	656.3	613.2	605.7	722.7	698.3	3.0%	6.4%	0.4%
Undergrad FY FTE	268.5	270.6	303.7	253.9	257.1	256.7	245.6	245.4	259.1	253.7	0.2%	-1.2%	-5.5%
Graduate FY FTE	0.5	0.6	0.7	0.3	0.0	0.1	0.6	0.3	0.0	0.5		300.0%	0.0%
Total FY FTE	269.0	271.2	304.4	254.2	257.1	256.9	246.2	245.7	259.1	254.2	0.2%	-1.0%	-5.5%
Expend/Student FTE	2,372	2,594	2,251	2,834	2,722	2,880	3,187	3,301	2,957	3,057	0.9%	6.1%	28.9%
StudFTE/FacultyFTE	23.2	22.0	26.1	19.1	21.7	21.9	20.4	20.2	24.1	23.3	3.0%	6.4%	0.4%
w/ GTAs	23.2	22.0	26.1	19.1	21.7	21.9	20.4	20.2	24.1	23.3	3.0%	6.4%	0.4%
Fresh/Soph Majors	111	113	124	131	115	79	83	68	62	82	3.4%	3.8%	-26.1%
Jr/Sr/PostBach Majors	128	120	148	141	132	146	113	100	96	97	-5.3%	-33.6%	-24.2%
Second Majors	5	4	8	8	10	4	8	4	6	8	23.8%	100.0%	60.0%
Graduate Majors	0	0	0	0	0	0	0	0	0	0			
Total Majors	239	237	280	280	257	229	204	172	164	187	-1.9%	-18.3%	-21.8%
Majors/Faculty FTE	20.6	19.2	24.0	21.0	21.7	19.5	16.9	14.1	15.2	17.1	0.5%	-12.2%	-16.8%
Bachelor's Degrees	52	49	50	65	40	64	51	48	42	29	-13.5%	-54.7%	-44.2%
Masters/Spec Degrees**	0	0	0	0	0	0	0	0	0	0			
Doctoral Degrees**				0	0	0	0	0	0	0			
Total	52	49	50	65	40	64	51	48	42	29	-13.5%	-54.7%	-44.2%

*SCH, FTE, and university seminar counts, and ratios based upon them, changed in FY05 to consistently follow the instructor's appointment rather than the subject code.

‡ Faculty FTE and % Tenure Track calculations changed in FY03 from budgeted FTE to Fall actuals. Graduate FTE assumes each headcount graduate assistant paid through program 01 is .5 FTE

Excludes benefits expenditures

**Graduate degrees were aggregated prior to 2004-05 and shown in the masters line.

College of Business

	2001-02	2002-03‡	2003-04	2004-05*	2005-06	2006-07	2007-08	2008-09#	2009-2010	2010-2011	Weighted Avg % Change /Yr (5 years)	5 year % change	10 year % change
Expenditures	2,189,064	2,470,802	2,540,980	2,503,326	2,976,498	3,120,255	3,568,239	3,493,580	3,640,007	3,686,775	3.4%	18.2%	68.4%
Faculty FTE	30.5	37.8	38.5	37.1	41.1	40.5	44.2	43.0	42.4	40.8	-1.1%	0.8%	33.9%
TTTFac FTE				20.9	22.5	19.6	24.0	23.0	23.0	21.0	-1.7%	7.1%	
% Tenure Track	62%	58%	58%	56%	55%	48%	54%	53%	54%	51%	-0.8%	6.2%	-17.0%
GTA FTE	0.4	2.0	2.5	2.5	2.5	2.5	3.0	4.5	2.5	2.5	0.8%	0.0%	500.2%
SCH Lower	7,002	7,119	6,838	7,476	7,970	8,004	7,503	8,163	8,781	9,294	4.9%	16.1%	32.7%
SCH Upper	12,751	13,473	12,670	12,539	12,862	13,575	13,997	14,537	13,657	12,955	-1.8%	-4.6%	1.6%
SCH Grad	1,096	955	874	1,169	1,290	1,032	1,272	1,468	1,502	1,252	-0.1%	21.3%	14.2%
Total FY SCH	20,849	21,547	20,382	21,184	22,122	22,611	22,772	24,168	23,940	23,501	0.6%	3.9%	12.7%
Univ Seminar SCH				801	894	807	816	822	903	918	2.8%	13.8%	
Research SCH				591	870	927	810	1,014	834	831	-1.1%	-10.4%	
% Taught by Ten Track													
SCH Lower	46%	44%	42%	38%	9%	7%	10%	20%	26%		37.2%	188.9%	
Sections Lower	64%	54%	53%	23%	19%	11%	9%	18%	23%		25.5%	21.1%	
Total SCH/ Faculty FTE	684.4	570.6	528.8	571.5	538.1	559.0	515.1	561.5	564.7	576.3	1.9%	3.1%	-15.8%
w/ GTAs	675.2	541.9	496.6	535.4	507.2	526.4	482.4	508.4	533.2	543.0	2.1%	3.1%	-19.6%
Undergrad FY FTE	658.4	686.4	650.3	667.2	694.4	719.3	716.7	756.7	747.9	741.6	0.7%	3.1%	12.6%
Graduate FY FTE	45.7	39.8	36.4	48.7	53.8	43.0	53.0	61.2	62.6	52.2	-0.1%	21.3%	14.2%
Total FY FTE	704.1	726.2	686.7	715.9	748.2	762.3	769.7	817.8	810.5	793.8	0.6%	4.1%	12.7%
Expend/Student FTE	3,109	3,402	3,700	3,497	3,978	4,093	4,636	4,272	4,491	4,644	2.9%	13.5%	49.4%
StudFTE/FacultyFTE	23.1	19.2	17.8	19.3	18.2	18.8	17.4	19.0	19.1	19.5	1.8%	3.3%	-15.8%
w/ GTAs	22.8	18.3	16.7	18.1	17.2	17.7	16.3	17.2	18.1	18.3	2.1%	3.3%	-19.6%
Fresh/Soph Majors	548	524	512	557	634	570	566	549	540	522	-2.9%	-8.4%	-4.7%
Jr/Sr/PostBach Majors	524	577	522	505	521	558	585	590	580	530	-2.0%	-5.0%	1.1%
Second Majors	8	7	7	11	12	8	12	13	9	23	49.8%	187.5%	187.5%
Graduate Majors	37	34	31	43	42	33	48	50	48	48	4.4%	45.5%	29.7%
Total Majors	1,117	1,142	1,072	1,116	1,209	1,169	1,211	1,202	1,177	1,123	-2.0%	-3.9%	0.5%
Majors/Faculty FTE	36.7	30.2	27.8	30.1	29.4	28.9	27.4	27.9	27.8	27.5	-0.8%	-4.7%	-24.9%
Bachelor's Degrees	211	226	218	228	215	206	236	213	246	184	-4.6%	-10.7%	-12.8%
Masters/Spec Degrees**	27	28	23	34	36	29	36	43	43	41	4.3%	41.4%	51.9%
Doctoral Degrees**			0	0	0	0	0	0	0	0			
Total	238	254	241	262	251	235	272	256	289	225	-3.4%	-4.3%	-5.5%

*SCH, FTE, and university seminar counts, and ratios based upon them, changed in FY05 to consistently follow the instructor's appointment rather than the subject code.

‡ Faculty FTE and % Tenure Track calculations changed in FY03 from budgeted FTE to Fall actuals. Graduate FTE assumes each headcount graduate assistant paid through program 01 is .5 FTE

Excludes benefits expenditures

**Graduate degrees were aggregated prior to 2004-05 and shown in the masters line.

College of Nursing

	2001-02	2002-03‡	2003-04	2004-05*	2005-06	2006-07	2007-08	2008-09#	2009-10	2010-11	Weighted Avg % Change /Yr (5 years)	5 year % change	10 year % change
Expenditures	2,989,297	3,462,226	3,454,301	3,637,138	4,198,569	4,421,036	4,398,893	4,373,590	4,693,945	4,590,634	1.4%	3.8%	53.6%
Faculty FTE	54.5	49.0	53.2	55.8	66.7	67.1	62.7	62.5	56.8	59.3	-1.9%	-11.6%	8.9%
TTT Fac FTE				16.0	22.1	15.2	13.3	15.8	14.6	14.4	0.0	0.0	
% Tenure Track	30%	28%	28%	29%	33%	23%	21%	25%	26%	24%	-0.4%	7.9%	-18.5%
GTA FTE	0.6	1.5	3.0	3.5	2.0	2.5	3.0	3.5	4.0	4.0	11.5%	60.0%	596.2%
SCH Lower	2,168	2,264	2,960	3,409	3,298	3,367	3,102	3,172	3,039	3,120	-0.7%	-7.3%	43.9%
SCH Upper	6,998	7,442	8,156	9,653	10,282	9,657	9,876	10,039	9,623	9,530	-1.2%	-1.3%	36.2%
SCH Grad	495	578	505	617	708	778	1,102	1,159	1,282	1,603	18.4%	106.0%	223.8%
Total FY SCH	9,661	10,284	11,621	13,679	14,288	13,802	14,080	14,370	13,944	14,253	0.4%	3.3%	47.5%
Univ Seminar SCH				0	0	0	0	0	0	0			
Research SCH				3	0	291	534	531	513	515		77.0%	
% Taught by Ten Track													
SCH Lower	56%	45%	43%	27%	26%	0%	0%	28%	20%			-23.1%	
Sections Lower	58%	28%	25%	32%	26%	0%	0%	23%	18%			-30.8%	
Total SCH/ Faculty FTE	177.4	209.9	218.4	245.0	214.2	205.8	224.6	230.0	245.3	240.4	2.5%	16.8%	35.5%
w/ GTAs	175.5	203.7	206.8	230.5	208.0	198.4	214.3	217.8	229.2	225.2	1.9%	13.5%	28.3%
Undergrad FY FTE	305.5	323.5	370.5	435.4	452.7	434.1	432.6	440.4	422.1	421.7	-1.1%	-2.9%	38.0%
Graduate FY FTE	20.6	24.1	21.0	25.7	29.5	32.4	45.9	48.3	53.4	66.8	18.4%	106.0%	223.8%
Total FY FTE	326.2	347.6	391.6	461.1	482.2	466.6	478.5	488.7	475.5	488.5	0.7%	4.7%	49.8%
Expend/Student FTE	9,165	9,960	8,822	7,888	8,708	9,476	9,193	8,950	9,872	9,398	0.8%	-0.8%	2.5%
StudFTE/FacultyFTE	6.0	7.1	7.4	8.3	7.2	7.0	7.6	7.8	8.4	8.2	2.9%	18.4%	37.6%
w/ GTAs	5.9	6.9	7.0	7.8	7.0	6.7	7.3	7.4	7.8	7.7	2.2%	15.1%	30.2%
Fresh/Soph Majors	213	260	288	271	253	268	224	233	256	332	11.5%	23.9%	55.9%
Jr/Sr/PostBach Majors	351	379	456	510	547	506	534	540	530	540	0.6%	6.7%	53.8%
Second Majors	1	1	0	1	1	0	0	0	2	1			0.0%
Graduate Majors	19	21	20	23	27	33	45	54	65	76	21.4%	130.3%	300.0%
Total Majors	584	661	764	805	828	807	803	827	853	949	5.0%	17.6%	62.5%
Majors/Faculty FTE	10.7	13.5	14.4	14.4	12.4	12.0	12.8	13.2	15.0	16.0	7.1%	33.0%	49.3%
Bachelor's Degrees	104	119	123	139	191	170	168	179	171	162	-2.5%	-4.7%	55.8%
Masters/Spec Degrees**	8	8	6	11	12	7	11	13	15	20	23.7%	185.7%	150.0%
Doctoral Degrees**				0	0	0	0	0	0	0			
Total	112	127	129	150	203	177	179	192	186	182	-0.8%	2.8%	62.5%

*SCH, FTE, and university seminar counts, and ratios based upon them, changed in FY05 to consistently follow the instructor's appointment rather than the subject code.

‡ Faculty FTE and % Tenure Track calculations changed in FY03 from budgeted FTE to Fall actuals. Graduate FTE assumes each headcount graduate assistant paid through program 01 is .5 FTE

Excludes benefits expenditures

**Graduate degrees were aggregated prior to 2004-05 and shown in the masters line.

Department of Agricultural Economics and Economics

The faculty in the *Department of Agricultural Economics and Economics* engages in nationally and internationally recognized research in a range of substantive areas including Production Economics, Resource & Environmental Economics, Public Finance, Labor & Human Resources Economics, Industrial Organization, Political Economy, Econometrics, Applied Economics, Agricultural Finance and Marketing, Agricultural Policy, Extension Family Economics and Estate Planning & Financial Management. Support for the faculty's research comes from federal agencies (e.g., NSF, USDA, SBA, DOE), state agencies (e.g., MT Department of Public Health and Human Services) and private foundations (e.g., Ford, Spencer, Koch). The faculty engages in interdisciplinary research with fields that range from land resources and environmental sciences, plant sciences, political science and business to statistics, accounting, education and family and consumer sciences.

Faculty who provided CVs:

Eric Belasco
Gregory Gilpin
Jason Pearcy
Vince Smith
Wendy Stock

BIOGRAPHICAL SKETCH

ERIC J. BELASCO

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BOZEMAN, MT 59717-2920
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EDUCATION AND TRAINING

North Carolina State University	Economics	Ph. D.	2007
North Carolina State University	Economics	M.S.	2005
Saint Mary's College of California	Economics	B.S.	2001

RESEARCH AND PROFESSIONAL EXPERIENCE

Assistant Professor	Dept. of Agricultural Econ. & Econ. Montana State University	2011-present
Assistant Professor	Dept. of Agricultural & Applied Economics Texas Tech University	2008-2011
Research Associate	Duke Center for Clinical Health Policy Research Duke University	2007
Research Assistant	Dept. of Agricultural and Resource Economics North Carolina State University	2005-2007
Research Assistant	Munroe Consulting	2001-2003

RELEVANT PUBLICATIONS

2009. with Ghosh, S.K. and Goodwin, B.K. "A Multivariate Evaluation of Ex-ante Risks Associated with Fed Cattle Production" *American Journal of Agricultural Economics*. 91 (2): 431-443.
2010. with Adhikari, S. and Knight, T.O. "Spatial Heterogeneity in Crop Insurance Decisions within Major Corn Producing States" *Agricultural Finance Review*. 70(1): 66-78.
2010. with Finke, M. and Huston, S. "Individual Property Risk Management" *Journal of Probability and Statistics*. 2010: 1-11
2010. with Schroeder, T.C. and Goodwin, B.K. "Quality Risk and Profitability in Cattle Production" *Journal of Agricultural and Resource Economics*. 35(3): 385-405.
2011. with Farmer, M. "A Finite Mixture Model of Heterogeneous and Distinct Anchoring Patterns" *Applied Economic Letters*. 18(2): 137-141
2011. with Gong, G., Phillips Jr., B.U., Hargrave, K.A., and Lyford, C.P. "Correlation of the Ratio of Metastatic to Non-metastatic Cancer Cases with the Degree of Socioeconomic Deprivation Among Texas Counties." *International Journal of Health Geographics*. 10(12).

2011. with Orlando, L.A., Patel, U.D., and Matcher, D.B. “The Chronic Kidney Disease Model: A General Purpose Model of Disease Progression and Treatment.” *BMC Medical Informatics and Decision Making*. 11(41).
2011. with Ghosh, S.K. “Modeling Semi-continuous Data Using Mixture Regression Models with an Application to Cattle Production Yields.” *Journal of Agricultural Science*. Forthcoming.

FUNDED PROJECTS

- A Public-Private Partnership for Cancer Prevention in Rural Communities, Cancer Prevention Research Institute of Texas. \$295,466 (Co-PI with Conrad Lyford, Audrey McCool, Barent McCool, Tyra Carter, and Barbara Pence). May 2011 – May 2013.
- Evaluation of Optimal Risk Management for Representative Grain Sorghum Farms on the Great Plains, NIFA, USDA. \$75,000 (PD with Darren Hudson and Thomas Knight). October 2010 – September 2011.
- Biodegradable Mulches for Specialty Crops Produced Under Protective Covers, SCRI SREP (2009-02484), Led by Washington State University. \$120,000 of a \$2.0M total budget. (Key Investigator with Jennifer Moore-Kucera (soil scientist). 2009-2012.
- Cattle Feeder Profit and Risk Management Calculator, USDA RMA, \$444,158. (Research Assistant under direction of Barry Goodwin and Ted Schroeder). 2004-2006.

SYNERGISTIC ACTIVITIES

Dr. Eric J. Belasco is an agricultural economist specializing in production, risk, policy, and applied econometrics. He has worked with diverse audiences that range from animal scientists, health practitioners, statisticians, and policy makers. In his position at the Duke Center for Clinical Health Policy Research, he developed simulation models with biostatisticians and health practitioners in order to evaluate the impacts of policy initiatives on the likelihood of Chronic Kidney Disease and closely related covariates. In addition, he worked with animal scientists and cattle producers to develop a risk tool to evaluate production and price risks in a dynamic environment. This tool was made available to the public and has been used by banks, producers, and cattle owners. Early in his career, he conducted research regarding the energy crisis of 2001 in California. This research was communicated to local state and county leaders to assist in the development of future energy plans and investments.

HONORS AND AWARDS

- Kenneth R. Keller Award for Excellence in Doctoral Dissertation Research (2007)
- Nancy Pollock Graduate School Dissertations Award for the College of Agriculture and Life Sciences (2008)
- Outstanding Faculty of the Year in the Department of AAEC (2008-2009)

GREGORY GILPIN

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Education

Ph.D., Economics, Indiana University, 2009
M.A., Economics, University of Kansas, 2004
B.S., Mathematics, Economics minor, *Cum Laude*, Brigham Young University - Hawaii, 2002

Current Position

Assistant Professor, Montana State University, July 2009 -present

Published Papers

Gilpin, G., 2011. "[Reevaluating the Effect of Non-Teaching Wages on Teacher Attrition.](#)" *Economics of Education Review* 30: 598-616.

Gilpin, G. and M. Kaganovich, 2009. "[The Quantity and Quality of Teachers: Dynamics of the Trade-off.](#)" Status: Accepted conditional upon revisions to *Journal of Public Economics*.

Non-Refereed Publications

"[The Kansas City Economy: Performance, Innovation, and Resources for Future Economic Progress,](#)" with David Burrell, Joshua Rosenbloom, Sonia Manzoor, and Mark Dollard, 2004. Policy Research Institute.

Working Papers

A. Bekkerman and G. Gilpin, 2010. "The Impact of the Internet on Information Searching and Demand for Traditional Information Resources." Status: submitted.

Bekkerman, A., C. Ferguson, and G. Gilpin, 2011. "Characterizing Cost-Effective Educational Attainment Strategies in U.S. High Schools"

Gilpin, G, 2011. "[Salary Schedules, Teacher Sorting, and Teacher Quality.](#)" CAEPR Working Paper 2011-004. Status: submitted.

Works in Progress

G. Gilpin. "Compulsory Schooling Laws and In-School Crime: Are Delinquents Incapacitated."

Presentations Last Year School Year

The Association of Education Finance and Policy Conference, Seattle, WA, Mar. 2011
Midwest Economics Association Conference, St. Louis, MO, Mar. 2011.
School of Economic, Political, and Policy Sciences Seminar, University of Texas at Dallas, Nov. 2010.
Southern Economics Association Annual Meeting, Atlanta Georgia, Nov. 2010
Western Economic Association Conference, Seattle Washington, Jul. 2010.
Public Economic Theory, Istanbul, Turkey, Jun. 2010.
Western Economic Association International Annual Conference, Portland, OR, Jul. 2010.

Research Experience

Consultant, Infrastructure Health & Safety Association, Mississauga, Ontario, 2005-2010 (formally the Electrical & Utilities Safety Association).
Research Intern, Economic Research Department, Federal Reserve Bank of Kansas City, 2004.
Research Assistant, Policy Research Institute, University of Kansas, 2003-04.
Research Assistant, School of Business, Brigham Young University - Hawaii, 2000-02.

Teaching Experience

Montana State University

- Money, Banking and Financial Institutions, Fall 2009, Spring 2010, Fall 2010.
- Graduate Macroeconomics Theory, Spring 2010, Spring 2011.
- Principles of Macroeconomics, Summer 2010, Fall 2010, Spring 2011, Summer 2011
- Problem Solving Seminar, Spring 2011

Indiana University

- Public Finance, Spring 2008, Spring 2009
- Principles of Microeconomics, Summer 2005 (IUPUI campus), Fall 2005, Fall 2006, Spring 2007, Fall 2007, Summer 2008, Fall 2008

Indiana University, Teaching Assistant, Fall 2004, Spring 2005, Spring 2006.

University of Kansas, Teaching Assistant, Fall 2002, Spring 2003, Spring 2004.

Brigham Young University, Teaching Assistant, Fall 2000, Spring 2001, Fall 2001, Spring 2002.

Software

Latex®, Matlab®, SAS®, STATA™

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Academic Positions

Assistant Professor, Montana State University, DAEE	August 2010 - Present
Assistant Professor, Tulane University, Department of Economics	August 2007 - July 2010
Fellow, Tulane Energy Institute	November 2009 - July 2010
Instructor, University of Colorado at Boulder, Department of Economics	August 2004 - May 2007
Instructor, University of Colorado at Boulder, Baker Residential Program	August 2006 - May 2007

Education

Ph.D. in Economics, University of Colorado at Boulder, May 2007
M.A. in Economics, University of Colorado at Boulder, May 2004
B.S. in Economics, Purdue University, December 2001

Research Papers

Publications

“Dynamic Pricing: When to Entice Brand Switching and When to Reward Consumer Loyalty” (with Yongmin Chen). *RAND Journal of Economics*, Vol. 41, No. 4 (2010), pp. 674-685.

Abstract: This paper develops a theory of dynamic pricing in which firms may offer separate prices to different consumers based on their past purchases. Consumers’ brand preferences over two periods are described by a copula that admits various degrees of positive dependence. When commitment to future prices is not feasible, at any symmetric equilibrium each firm offers lower prices to its rival’s customers than to its repeat customers, and the enticement for brand switching is larger when preferences across periods are more dependent. When firms can commit to future prices, rewarding consumer loyalty becomes the equilibrium outcome if preference dependence is low; but enticing brand switching is the equilibrium outcome if dependence is high. Our theory provides a unified treatment of the two pricing policies that have been studied separately in the economics literature, and sheds light on observed pricing practices across industries.

Working Papers

“Arriving in Time: Estimation of English Auctions with a Stochastic Number of Bidders” (with José Canals-Cerdá), under review

Abstract: We develop a new econometric approach for estimation of second-price ascending-bid auctions with a stochastic number of bidders and missing data. Our empirical framework considers the arrival process of new bidders as well as the distribution of bidders' valuations for objects being auctioned. We show that by observing the timing of bidder arrival the model is identified when the number of potential bidders is stochastic and unknown. The relevance of our approach is illustrated with an empirical application using a unique dataset of art auctions on eBay. Our results suggest a higher impact of sellers' reputation on bidders' valuations than previously reported in cross-sectional studies but the impact of reputation on bidder arrival is largely insignificant. Interestingly, a seller's reputation impacts not only the actions of the bidders but the actions of the seller as well. In particular, experience and a good reputation increase the probability of a seller posting items for sale on longer-lasting auctions which we find increases the expected revenue for the seller.

“Bargains Followed by Bargains: When Switching Costs Make Markets More Competitive”

Abstract: In markets where consumers have switching costs and firms cannot price discriminate, firms have two conflicting strategies. A firm can either offer a low price to attract new consumers and build future market share or a firm can offer a high price to exploit the partial lock-in of their existing consumers. This paper develops a theory of competition when overlapping generations of consumers have switching costs and firms produce differentiated products. Competition takes place over an infinite horizon with any number of firms. This paper shows that the relationship between the level of switching costs and the number of firms determines whether firms offer low or high prices. Similar to previous duopoly studies, switching costs are likely to facilitate higher equilibrium prices only when there is a small number of firms and switching costs are large. Unlike previous studies this paper demonstrates that with a sufficiently large number of firms, switching costs have the opposite effect and prices are lower with switching costs when compared to equilibrium prices without switching costs. The equilibrium of the model also contains realistic features uncommon to other models in the literature where some consumers switch in equilibrium and a symmetric pure strategy price exists with more than two firms.

“The Effects of International Simple Resale on Prices in International Telecommunications Markets” (with Scott Savage), NET Institute Working Paper No. 09-19

Abstract: This paper empirically investigates the effect of international simple resale (ISR) authorization on the prices for international message telephone service (IMTS). We compile a firm-level panel data set for over 200 United States-foreign country bilateral markets from 1995 to 2004. These data provide detailed information on prices, variable costs, fixed costs and market shares for 75 firms for each bilateral market, as well as the timing of ISR authorization by the Federal Communications Commission for each bilateral market. Estimates from a difference-in-differences model show that ISR authorization, and the associated lowering of barriers to entry, almost always results in lower prices for all markets. Additionally, we find evidence that ISR authorization alters the relationship between market concentration and price. Prior to ISR authorization more concentrated markets have higher prices. ISR authorization dampens this effect and in some cases reverses the relationship so that market concentration is negatively correlated with IMTS prices set by incumbent firms.

“What Have Carbon Market Designers Missed?: Why EU Firms Pass Up Cheaper Carbon Offsets” (with Timothy Fitzgerald and Nathan Braun)

Abstract: The European Union Emission Trading System (ETS) is the worlds largest emissions trading scheme. Since 2008 the ETS has been linked to the Kyoto flexible mechanisms. This linkage allows emitting installations to surrender either an emissions permit (EUA) or a carbon offset. This study explores why a large share of emitters fail to purchase cheaper offsets in favor of more expensive EUAs and why unexploited arbitrage opportunities persist within the ETS. A structural model of firms compliance behavior is presented that allows for multiple abatement assets, banking or borrowing, transaction costs, and institutional details specific to the ETS. Registry log data from the ETS is used to determine what factors influence the probability a firm purchases offsets and how many offsets are purchased. These results are then used to estimate the potential benefits associated with a change in institutional rules or a reduction in transaction costs.

VINCENT H. SMITH

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EDUCATION:

- < **Ph.D., Economics**, North Carolina State University, Raleigh, NC, 1987
- < **M.A., Economics**, Department of Agricultural Economics, Manchester University, England, 1971
- < **B.A., Economics**, Manchester University, England, 1970

CURRENT POSITION:

- < **Professor**, Department of Agricultural Economics and Economics, Montana State University
- < **Co-director**, Agricultural Marketing Policy Center, Montana State University

FIELDS OF INTEREST:

- < Domestic Agricultural Commodity Policy
- < International Agricultural Commodity Policy
- < Agricultural Risk Management Policy

HONORS AND AWARDS:

- < USDA Bruce Gardner Award to Outstanding Visiting Economist, 2011.
- < American Enterprise Institute Visiting Scholar, 2011-2012
- < Western Agricultural Economics Association Distinguished Scholar, 2008.
- < American Agricultural Economics Association Honorable Mention Award for Outstanding Article in *Choices*, 2006.
- < Western Agricultural Economics Association Award for the Outstanding Article published in *Journal of Agricultural and Resource Economics*, 2004.
- < Chamber of Commerce Award for Excellence in Teaching, Montana State University, 2004.
- < Senior Hallsworth Fellowship, University of Manchester, England, 2000.
- < Western Agricultural Economics Association Outstanding Extension Program Award 1999
- < Henry Schaefer Visiting Senior Fellowship, University of Western Australia, July, 1999.
- < National and Rural Institute on Alcohol and Drug Abuse Center for Substance Abuse Treatment Award for Excellence in Research, 1998.
- < Western Agricultural Economics Association Award for Outstanding Published Research, 1995.
- < Senior Hallsworth Fellowship, University of Manchester, England, 1995.
- < Hallsworth Fellowship, University of Manchester, England, 1991.
- < Ph.D. dissertation nominated for the AAEA Distinguished Dissertation Award, 1987.

RECENT PUBLICATIONS:

Selected Recent Books and Monographs:

1. Vincent H. Smith and Barry K. Goodwin. *The Economics and Politics of the 2008 Farm Bill*. The AEI Press, forthcoming 2011
2. Vincent H. Smith and Philip Pardey, eds. *What's Economics Worth: Valuing Economic Policy Research*. John's Hopkins University Press, 2004.
3. Antle, John, and Vincent H. Smith, editors. (1999). *The Economics of World Wheat Markets*. CABI, November, 1999.

Selected Recent Book Chapters

4. Smith, Vincent H., and Barry K. Goodwin (2010). "Private and Public Roles in Providing Agricultural Insurance in the United States," in Jeffrey Brown (editor), *Private and Public Roles in Insurance*, forthcoming, AEI Press, Washington D.C.
5. Brester, Gary, and Vincent H. Smith (2007). "Agricultural Policy and the U.S. Livestock Industry" in Bruce Gardener and Daniel Sumner, *U.S. Agricultural Policy and the 2007 Farm Bill*, forthcoming, AEI press, Washington, D.C.
6. Smith Vincent H. (2006) "Regulation, Trade, And Market Power: Agricultural Chemical Markets And Incentives For Biotechnology" in R.E. Just, J.M. Alston, and D. Zilberman (editors), *Regulating Agricultural Biotechnology: Economics and Policy*, New York: Springer Publishers
7. Goodwin, Barry K., and Vincent H. Smith. (2003). "The Effects of Crop Insurance and Disaster Relief Programs on Soil Erosion: The Case of Soybeans And Corn." in *Agricultural Policies and the Environment*, editors Joseph Lekakis, Robert Fraser and Bruce Babcock, Dordrecht, The Netherlands, Kluwer Academic Publishers.

Selected Recent Professional Journal Publications

8. Smith, V. H. and J. Glauber (2012). "Agricultural Insurance in Developed Countries." *Applied Economic Perspectives and Policy*. Forthcoming
9. Smith, V.H., and M. A. Watts (2010). "The New Disaster Relief Program: An Almost SURE invitation to Moral Hazard." *Applied Economic Perspectives and Policy*.
10. Smith, V.H., and B.K. Goodwin (2009). "Harvest Time Protein Shocks and Price Adjustments in Wheat Markets." *Journal of Agricultural and Resource Economics*.
11. Brester, G., J. Marsh, and V. H. Smith. "Effects of North American BSE Events on U.S. Cattle Prices." *Review of Agricultural Economics*, 2008.
12. V. H. Smith. (Summer, 2007) "Regulating State Trading Enterprises in the World Trade Organization: An Urgent Need for Change? Evidence from the 2003-2004 U.S. – Canada Grain Dispute." *Review of Agricultural Economics*; 29 (2): pp 187-200
13. Mercier, S., and V. H. Smith. (Winter, 2006) "The Policy Environment for the 2007 Farm Bill." *Choices*, 21(4).
14. K. Kiessel, D. Buschena, and V. H. Smith. (2005) "Do Voluntary Biotech Labels Matter? Evidence from the Fluid Milk Market." *American Journal of Agricultural Economics*: 87(2) pp 378-392.
15. Buschena, D., V.H. Smith, and H. Di. "Policy Reform and Farmers' Wheat Allocation in Rural China." *Australian Journal of Agricultural and Resource Economics*, 2005
16. Goodwin, B.K., and V. H. Smith. (2003) "An Ex-Post Evaluation of the Conservation Reserve, Federal Crop Insurance, and other Government Programs: Program Participation and Soil Erosion." *Journal of Agricultural and Resource Economics*, August.

Selected Recent Grants

17. V.H. Smith. Carbon Credits and Carbon Sequestration in the American Indian Reservation Context, (with Fort Peck Community College), USDA CSREES, 2009-2011, \$200,000.
18. Vincent H. Smith and Carrie Sue Archdale (FPCC). *Entrepreneurship Education for Successful Bio-Energy Production in the 32 County WIRED Program Region*. State of Montana WIRED Program, July 1, 2006 – June 30, 2010, \$306,000 (\$125,000 to MSU)
19. V. H. Smith. *Animal Identification on American Indian Reservations*. (with Fort Peck Community College), USDA CSREES, 2006-2008, \$75,000.
20. V.H. Smith. *New Risk Management Opportunities for American Indian Livestock Producers*. Fort Peck Community College/USDA RMA, 2005-2006, \$76,000.
21. M. Frick and V.H. Smith. *Agricultural Policy and Management Education*. Little Big Horn College/ USDA CSREES, 2005-2008, \$64,000.
22. V.H. Smith. *Livestock Marketing Channels for American Indian Agricultural Producers*. Fort Peck Community College/USDA, 2004-2006. \$150,000.
23. V.H. Smith, M. Frick, and D. Kress. *Transitioning to Excellence in Agricultural and Natural Resource Baccalaureate Education*. USDA Higher Education Challenge Grant, 2003-2005. \$248,000.
24. V. H. Smith and J. B. Johnson. *The Economics of Wheat Protein and Wheat Gluten*. USDA ERS, 2002 - 2004. \$85,000

Wendy A. Stock, Ph.D

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306 Linfield Hall
Montana State University
Bozeman MT 59717-2920

E-mail: wstock@montana.edu

Phone: 406-994-7984

Fax: 406-994-4838

Internet Address: <http://www.montana.edu/stock>

Education: Ph.D., Economics, Michigan State University, 1996.
Major Field: Labor Economics; Minor Field: Econometrics
MA, Economics, Michigan State University, 1994.
BA, Economics, *Magna Cum Laude*, Weber State University, 1992.

Current Positions:

Department Head, Montana State University, July 2009-present.
Professor of Economics, Montana State University, July 2006-present.

Previous Positions:

Co-Department Head, Montana State University, October 2006-July 2009.
Associate Professor of Economics, Montana State University, 2000-2006.
Assistant Professor of Economics, Kansas State University, 1996-2000.

Selected Journal Publications:

- "[Completion Rates and Time-to-Degree in Economics Ph.D. Programs](#)," (with John Siegfried and T. Aldrich Finegan). Forthcoming, *American Economic Review Papers and Proceedings*. May 2011.
- "[Can You Earn a Ph.D. in Economics in Five Years?](#)" (with John Siegfried and T. Aldrich Finegan), *Economics of Education Review* 28(5) (October 2009): 523-537.
- "[The Undergraduate Origins of Ph.D. Economists](#)" (with John Siegfried), *Journal of Economic Education* 38(4) (Fall 2007): 461-482.
- "[Divorce Laws and the Labor Force Participation of Women with and without Children](#)" (with Christiana Stoddard and Katie Genadek), *Journal of Human Resources* 42(1) (Winter 2007):247-274.
- "[Where Are They Now? Tracking the Ph.D. Class of 1997](#)" (with John Siegfried), *Southern Economic Journal*. 73(2) (October 2006): 472-488.
- "[The Labor Market Effects of Sex and Race Discrimination Laws](#)" (with David Neumark), *Economic Inquiry*. 44(3) (July 2006): 385-419.
- "[Ph.D. Program Learning and Job Demands: How close is the Match?](#)" (with W. Lee Hansen). *American Economic Review Papers and Proceedings*. 94(2) (May 2004): 266-271.
- "[Employment Protections for Older Workers: Do Disability Discrimination Laws Matter?](#)" (with Kathleen Beegle). *Contemporary Economic Policy*. 22(1) (January 2004): 111-126.
- "[The Labor Market Effects of Disability Discrimination Laws](#)" (.html link to [tables](#)) (with Kathleen Beegle). *Journal of Human Resources*. 38(4) (Fall 2003): 806-859.
- "[So You Want to Earn a Ph.D. in Economics: How Long Do You Think It Will Take?](#)" (with John Siegfried). *Journal of Human Resources*. 36(2) (Spring 2001): 364-378.
- "[So You Want to Earn a Ph.D. in Economics: How Much Do You Think You Will Make?](#)" (with John Siegfried). *Economic Inquiry*. 39(2) (April 2001): 320-335.
- "[The Effect of Graduate-Program Rank on Success in the Job Market](#)" (with Richard Alston). *Journal of Economic Education*. 31(4) (Fall 2000): 389-401.
- "[Age Discrimination Laws and Labor Market Efficiency](#)" (with David Neumark). *Journal of Political Economy*. 107(5) (November 1999): 1081-1125.
- "[Local Industry Employment Share and the Experiences of Displaced Workers](#)" *Industrial Relations*. 37(4) (October 1998): 478-498.

Current Projects:

"Education and Policy Effects on the Health Behaviors and Health Outcomes of American Indians," (with Christiana Stoddard).

Social Issues and Economic Thinking (Economics 101 - level textbook). Forthcoming, 2012. Wiley Publishers.

Selected Presentations:

Cheap and Effective? The Impact of Student-Led Recitation Sessions on Learning Outcomes in Introductory Economics. First Annual AEA Conference on Teaching Economics and Research in Economic Education. Stanford. June 2011.

Completion Rates and Time-to-Degree for Fall 2002 Economics Ph.D. Program Entrants Society of Economic Educators. February 2011.

The Financial and Economic Crisis. Livingston-Big Sky Cost Bureau. April 2009.

The Economics of Immigration. Montana Council on Economic Education International Economics Education Workshop (for high school teachers). Montana State University. February 2009.

Assorted MSU for a Day Presentations 2007-present MSU for a Day is a community outreach program in which faculty members present a day of lectures in their field to Montana high school students to motivate and inspire students to continue their education beyond high school.

Ph.D. Study in Economics: Completion and Labor Market Outcomes. American Academy for the Advancement of Science, Alliance for Graduate Education & the Professoriate, Evaluation Capacity Building Meeting, Washington DC, September 2008.

The Plateau in Maternal Labor Force Participation Rates. Iowa State University, April 2007.

Invited presenter and panelist, *Rewards and Challenges: Career Development for Women in Academics and Industry*. Iowa State University, April 2007.

Selected Teaching Experience:

Montana State University: Graduate and Undergraduate Econometrics, Labor and Human Resource Economics, The Economic Way of Thinking, Women in the Economy, The Economics of Life, Peer Leadership in Economics.

Kansas State University: Labor Economics, Graduate Econometrics, Principles of Macroeconomics, and Principles of Microeconomics.

Selected Awards, Honors, and Grants:

Montana State University, *James and Mary Ross Provost's Award for Excellence*. Recognizing Excellence in Teaching and Scholarship. 2010.

Montana State University Mortar Board, *Professor of the Month*, November 2009.

Montana State University, *Award For Excellence*, 2006, 2009.

The Spencer Foundation, *The Ph.D. Production Process in Economics* (with John Siegfried and T. Aldrich Finegan), 2008-2010. (\$30,000)

The Ford Foundation, 18-month Extension Grant for *Ph.D. Education in Economics in the United States*. (with John Siegfried, Al Finnegan, and W. Lee Hansen), 2005-2007. (\$49,000)

Montana State University, *Betty Coffey Award*, in recognition of contributions on behalf of women. 2005. (\$500)

The Ford Foundation, Grant for *Ph.D. Education in Economics in the United States*. (with John Siegfried, Al Finnegan, and W. Lee Hansen), 2002-2005. (\$224,000)

Winner, *Minnesota Award*, Hubert H. Humphrey Institute Center for Labor Policy and the Industrial Relations Center at the University of Minnesota. Given every other year for the best paper analyzing the role and performance of institutions in the employment relationship and labor market (with David Neumark), 2000. (\$5,000)

National Institutes of Health, National Institute on Aging, R03 Grant for *Labor Market Effects of Disability Discrimination Laws* (with Kathleen Beegle), 1999-2001. (\$84,510)

College of Business

The faculty in the *College of Business* represents four broad areas: Management, Finance, Marketing and Accounting. Across those areas research interests focus in several areas: (1) entrepreneurship, start-ups, new ventures, and innovation (2) risk and perception of risk, and (3) personal and contextual factors that affect individual and organizational processes, decision-making and effectiveness. With respect to sponsored research, there are pockets of untapped potential among this young, well-trained and energetic faculty. In particular, the faculty has strong qualitative and quantitative research skills with the potential to conduct robust multi-method studies in collaboration with partners within and outside the College of Business. The faculty receives support from the college for travel to conferences.

Faculty who provided CVs:

Laura Black
Scott Bryant
Gary Caton
Gregory Durham
Francis Kerins
Agnieszka Kwapisz
Angela Woodland

LAURA J. BLACK
lblack@montana.edu

EDUCATION

Ph.D., Sloan School of Management, MIT, Cambridge, MA June 2002
System Dynamics / Operations Management and Organization Studies
Dissertation: *Collaborating Across Boundaries: Theoretical, Empirical, and Simulated Explorations*

M.B.A., The University of Texas at Austin, Austin, TX May 1993
Concentration in Information Systems Management, with honors

B.A., The University of Texas at Austin, Austin, TX May 1985
College of Liberal Arts Honors Program, with high honors

ACADEMIC POSITIONS

Montana State University, College of Business Bozeman, Montana
Associate Professor, August 2010 – present
Assistant Professor, August 2004 – July 2010
Visiting Assistant Professor, August 2002 – May 2004

Università della Svizzera italiana Lugano, Switzerland
Master of Advanced Studies in Humanitarian Logistics and Management
Faculty Member, January 2009 - present

RESEARCH ACTIVITIES

Grants and Fellowships

National Science Foundation, Virtual Organizations as Sociotechnical Systems (VOSS)
September 2008 – August 2009, “VOSS: Constructing and Modifying Meaning in Complex Projects,” \$100,626 (NSF Grant No. OCI-0838317)
Principal Investigator (with co-PIs from Montana State University, Aerospace Corporation, Boston University, and University at Albany)
Montana State University, with funding from the National Science Foundation
ADVANCE Leadership Award Grants for Women Faculty, 2009-2010, \$10,557

Publications

"Teaching Undergraduates about Dynamic Systems," B. Raymond and L.J. Black,
Journal of Business and Management, 14 (2) 2009

"Knowledge-sharing and Trust in Collaborative Requirements Analysis," L.F. Luna-Reyes, L.J. Black, A.M. Cresswell, and T.A. Pardo, *System Dynamics Review*, 24 (3) 2008

"A Dynamic Theory of Expertise and Occupational Boundaries in New Technology Implementation: Building on Barley's Study of CT-Scanning," L.J. Black, P.R. Carlile, and N.P. Repenning, *Administrative Science Quarterly*, 49 (4) 2004

"The Tipping Point in Product Development: Why Balancing Work to Resources Remains Problematic," N.P. Repenning, P.M. Gonçalves, and L.J. Black, *California Management Review*, 43 (4) 2001

Reprinted as Repenning, N., P. Gonçalves, and L. Black, "Past the Tipping Point: The Persistence of Fire Fighting in Product Development," *IEEE Engineering Management Review*, 30 (4) 2002

"Why Firefighting Is Never Enough: Preserving High-Quality Product Development," L.J. Black and N.P. Repenning, *System Dynamics Review*, 17 (1) 2001

Under Review

"Complex Contracted Governmental Projects and the Challenge of Shared Understanding," co-authored with N. Ghaffarzadegan, D.R. Greer, and D.F. Andersen, submitted to *Journal of Public Administration Research and Theory*

"Recognizing Boundary Objects as Drivers of Conflict Resolution in Collaborative Model Building Approaches," co-authored with D.F. Andersen, submitted to *Systems Research and Behavioral Science*

"Using Visual Representations as Boundary Objects to Strengthen Group Model Building," submitted to *System Dynamics Review*

"Experimental Design and the Scientific Method," co-authored with C. Lambert, submitted to *Biostatistics*; requested revision and resubmission in progress

Research in Progress

"The Power of Ugly Sketches and Bad Drafts: Improving Innovation Work through Iterative Communications," co-authored with D.R. Greer, working paper

"Seeing What Isn't: Identifying Latent Problems in New Product Development Stage Gates," working paper

Refereed Conference Presentations

"Dare to Care—Only a Little at a Time: Social Construction of Capability in Microfinance," co-authored with D.R. Greer, System Dynamics Winter Conference, Austin, TX January 2011

"Examining Disconnects as Drivers of Cost and Time Overruns in Complex Innovative Government Development Programs: A Multi-Method Approach," co-authored with N. Ghaffarzadegan, D.R. Greer, and D.F. Andersen, Association for Public Policy Analysis and Management, Washington, DC November 2009

"You Meant What?! Socially Constructing Meaning with Ongoing Interactions," co-authored with D.R. Greer, International System Dynamics Conference, Albuquerque, NM July 2009

"Assessing Executability in Large Complex Programs," co-authored with D.R. Greer, R.J. Adams, S. Eslinger, D.X. Houston, IEEE Aerospace Conference, Big Sky, MT March 2009

"Untangling the Epistemological and Ontological Challenges of Knowledge Integration in New Product Development," co-authored with P.R. Carlile, Academy of Management, Anaheim, CA August 2008

"Collaborative Requirements Analysis: Sharing Knowledge and Building Trust in Interorganizational User Groups," co-authored with L.F. Luna-Reyes, Western Academy of Management, Oakland, CA April 2008

"Accumulations of Legitimacy: Exploring Insurgency and Counter-Insurgency Dynamics," co-authored with E. Anderson, International System Dynamics Conference, Boston, MA August 2007

Scott E. Bryant

ACADEMIC EXPERIENCE

Associate Professor of Management. 2008-Present. College of Business. Montana State University. Bozeman, MT.

Assistant Professor of Management. 2002-2008. College of Business. Montana State University. Bozeman, MT.

Executive Director. 2006-Present. Jabs Center for Entrepreneurship for the New West. College of Business. Montana State University. Bozeman, MT.

Graduate Teaching Fellow. 1998-2002. Lundquist College of Business. University of Oregon. Eugene, OR.

EDUCATION

Ph.D. Management and Organizational Studies. 2002. University of Oregon. Eugene, OR. Dissertation: *A Field Study on the Impact of Peer Mentoring on Organizational Knowledge Creation and Sharing.*

Minor Areas: Entrepreneurship, Organizational Knowledge, Strategic HRM

M.B.A. Management Emphasis. 1998. Seattle Pacific University. Seattle, WA. Honors: Sigma Beta Delta Member.

B.A. Marketing. B.A. Philosophy. 1990. Seattle Pacific University. Seattle, WA. Honors: Graduated Summa Cum Laude, Honors Program.

RESEARCH AND TEACHING INTERESTS

Entrepreneurship, Peer Mentoring, Emotional Intelligence, Management Skills, Principles of Management

HONORS AND AWARDS

2011 BEST Award. Buy-out for Enhancing Scholarship and Teaching.

2010 Nominated for President's Excellence in Teaching Award. Campus wide award for outstanding teaching at Montana State University.

2010 BEST Award. Buy-out for Enhancing Scholarship and Teaching.

2009-11 NCIIA Grant (6290-08)—\$24,500. "Moving clean energy innovations to market and creating entrepreneurial learning opportunities through cross-disciplinary student teams." This award provides funding for an initiative involving the MSU Center for Entrepreneurship for the New West, TechRanch and the College of Engineering to create student E-teams that will work on commercializing green technology.

RESEARCH

Refereed Publications

Bryant, S., Moshavi, D., Lande, G. In Press. *A Knowledge-Based View of Improving the Physician-Patient Relationship*. *Academy of Health Care Management Journal*.

Bryant, S. 2011. HabiHut Case: Improving Shelter for People in Need. *Journal of Business Cases and Applications*. 3: Online.

Bryant, S., Moshavi, D., Lande, G., Leary, M., and Doughty, R. 2011. A Proposed Model for The Role of Physician Peer Mentoring in Improving Patient Satisfaction. *Academy of Health Care Management Journal*. 7: 45-58.

Nguyen, T., Bryant, S., Rose, J., Chiung-Hui, T., and Kapasuwan, S. 2009. National Culture, Institutions, and Entrepreneurship Potential: A Comparative Study of the United States, Taiwan, and Vietnam. *Journal of Developmental Entrepreneurship*. 14: 21-37.

Bryant, S. and Terborg, J. 2008. Impact of Peer Mentor Training on Creating and Sharing Organizational Knowledge. *Journal of Managerial Issues*. 20 (1): 11-29.

Bryant, S. and Lockhart, M. 2007. Mentoring: Gains in Teaching and Leadership. *Academic Exchange Quarterly*. 11(2): 81-85.

Bryant, S., Moshavi, D. and Nguyen, T. 2007. A Field Study on Organizational Commitment, Professional Commitment and Peer Mentoring Competence and Behaviors. *The Data Base for Advances in Information Systems*. 38(1): 61-74.

Brown, F. W., Bryant, S. and Reilly, M. 2006. Does Emotional Intelligence—as Measured by the EQI—influence Transformational Leadership and/or Desirable Outcomes. *Leadership and Organizational Development Journal*. 27: 330-351. Won 2006 Best Paper in Journal Award.

Bryant, S. 2005. The Impact of Peer Mentoring on Knowledge Creation and Sharing: An Empirical Study in a Software Firm. *Group and Organization Management*. 30: 319-338.

Marshall, S., Nguyen, T, and Bryant, S. 2005. A Dynamic Model of Trust Development and Knowledge Sharing in Strategic Alliances. *Journal of General Management*. 31: 41-57.

Bryant, S. and Brown, F. W. 2004. The Role of Emotional Intelligence in Knowledge Sharing and Performance. *International Journal of Business and Public Administration*. 1: 15-27.

Nguyen, T. and Bryant, S. 2004. A study of the Formality of Human Resource Management Practices in Small and Medium-size Enterprises in Vietnam. *International Small Business Journal*. 22: 595-618.

Nguyen, T., Claire, L. and Bryant, S. 2003. The Social Dimension of Network Ties Between Entrepreneurial Firms: Implications for Information Acquisition. *Journal of Applied Management and Entrepreneurship*. 8 (2): 29-47.

Bryant, S. 2003. The Role of Transformational and Transactional Leadership in Creating, Sharing and Exploiting Organizational Knowledge. *Journal of Leadership and Organizational Studies*. 9: 32-44.

Gary L. Caton, Ph.D.

College of Business – 447 Reid Hall

P.O. Box 173040

Bozeman, MT 59717-3040

Ph: 406-994-6190 Fax: 406-994-6206

Email: gary.caton@montana.edu

EDUCATION

- PhD (1996), Business Administration, University of Oklahoma (finance with minor fields in Econometrics and Applied Microeconomics), dissertation title: "Financial, Organizational, and Market Determinants of Exit from Declining Industries," chairman Scott Linn
- BA (1980), Biology, Western State College of Colorado

PUBLICATIONS

- “Earnings Management and Seasoned Bond Offerings: Do Managers Mislead the Bond Market?” with Chiraphol Chiyachantana, Chua Choong Tze, and Jeremy Goh, *Journal of Financial and Quantitative Analysis*, Volume 46, Number 3, pages 687-708, 2011.
- “An Analysis of Japanese Earnings Forecast Data: With Application to Seasoned Equity Offerings” with Justin S. P. Chan, Jeremy Goh and Sheng-Yung Yang, *International Review of Economics and Finance*, Volume 20, Issue 3, pages 376-387, 2011.
- “Management Compensation, Restructuring, and Value Creation at Union Carbide Corporation”, *Journal of Corporate Ownership and Control*, Volume 6, Issue 3, pages 561-569, 2009.
- “Corporate Governance, Shareholder Rights, and Shareholder Rights Plans: Poison, Placebo, or Prescription?” with Jeremy Goh, *Journal of Financial and Quantitative Analysis*, Volume 43, Number 2, pages 381-400, 2008.
- “The Effect on Rivals when Firms Emerge from Bankruptcy” with Jeff Donaldson and Jeremy Goh, *Journal of Corporate Ownership and Control*, Volume 6 Issue 2, pages 302-311, 2008.
- “Liquidity and the Choice to Abandon Production in Declining Industries”, *Journal of Corporate Ownership and Control*, Volume 5, Issue 1, pages 418-431, 2007.
- “Dividend Omissions and Intra-industry Signaling” with Jeremy Goh and Ninon Kohers, *Journal of Financial Research*, Volume 26, Number 1, pages 51-64, 2003.
- “Are All Rivals Affected Equally by Bond-rating Downgrades?” with Jeremy Goh, *Review of Quantitative Finance and Accounting*, Volume 20 Number 1, pages 49-62, 2003.
- “The Effectiveness of Institutional Activism” with Jeremy Goh and Jeff Donaldson, *Financial Analysts' Journal*, Volume 57, Number 4, pages 21-26, 2001. Cited in Wall Street Journal Online article by Aaron Elstein, November 6, 2002.
- "To Call or Not to Call Convertible Debt," with Louis Ederington and Cynthia Campbell, *Financial Management*, Volume 26, pages 22-31, 1997.

WORKING PAPERS

- “Open Market Share Repurchase Programs and Corporate Governance: Revaluation and Company Performance” with Jeremy Goh, Yen Teik Lee, and Scott Linn, presented at the 2011 Asian FMA conference and being prepared for review for presentation at the 2012 MFA conference.
- “Do Rating Changes Signal Changes in Operating Performance?” with Jeremy Goh.
- “Announcements of Specially Designated Dividends: Reduction in Free Cash Flow or Signal?” with Gurmeet Bhabra and Scott Linn.
- “The Intra-Industry Effects of Bankruptcy Announcements: Evidence from Analysts’ Earnings Forecasts” with Jeremy Goh and Jeff Donaldson.
- “Spin-offs and Operating Performance” with Scott Linn.

PROJECTS IN PROGRESS

- “Bond rating analysts and stock analysts: Who knows what when update” with Jeremy Goh and Yen Teik Lee.
- “Poison pill adoption, operating performance changes and corporate governance” with Jeremy Goh, and Scott Linn.
- “Corporate governance and proxy contests” with Jeremy Goh and Sheng-Yung Yang.

PROFESSIONAL PRESENTATIONS

- “Managerial Intent, Corporate Governance and Open Market Share Repurchase Programs” presented in November 2010 for the **Montana State University** research seminar series.
- “Earnings Management and Seasoned Bond Offerings: Do Managers Mislead the Bond Market?” presented at the 2009 **Financial Management Association** annual meeting.
- “Earnings Management and Seasoned Bond Offerings: Do Managers Mislead the Bond Market?” presented in October 2008 for the University of Montana’s **Byrnes Lecture Series**.
- “Do Rating Changes Signal Changes in Operating Performance?” presented in 2006 in the **Montana State University** research seminar series.
- “Japanese Seasoned Equity Offerings Revisited” presented in 2006 in the **Montana State University** research seminar series.
- “Shareholder rights and shareholder rights plans: Poison, placebo or prescription” presented at the 2005 **Financial Management Association** annual meeting.
- “The Effect on Rivals when Firms Reorganize” presented at the 2003 **Financial Management Association Meeting** annual meeting.
- “The intra-industry effects of bankruptcy announcements: Evidence from analysts’ earnings forecasts” presented at the 2000 **Financial Management Association** annual meeting.
- “Announcements of Specially Designated Dividends: Reduction of free cash flow or signal?” presented at the 1997 **Financial Management Association** annual meeting.
- “Financial, organizational, and market determinants of exit from declining industries” presented at the 1995 **Financial Management Association** annual meeting.
- “Do spin-offs improve corporate performance?” presented at the 1993 **Financial Management Association** annual meeting.

Gregory R. Durham

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Bozeman, MT 59717-3040

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Mobile Phone: 480-600-3801
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Employment	Montana State University, Bozeman, MT	2011-present,
	Associate Professor (2009-2010, 2011-present)	2003-2010
	Assistant Professor (2003-2009)	
	Portland State University, Portland, OR	2010-2011
	Visiting Associate Professor (2010-2011)	
	National Economics University, Hanoi, Vietnam	2010, 2011
	Visiting Associate Professor (June 2010, March 2011)	
	Arizona State University, Tempe, AZ	1995-2003
Senoir Lecturer (2003), Lecturer (2000-2003), Faculty Associate (1999-2000), Graduate Teaching Assistant (1997-1999), Research Assistant (1995-1999)		
University of Texas at Austin	1993-1994	
Teaching Assistant (1993-1994)		
Integrated Device Technology, Inc.	1988-1992	
Field Sales Engineer (1990-1992, Newport Beach, CA)		
Product Marketing Engineer (1988-1990, Salinas, CA)		
Research Interests	Behavioral Finance, Efficiency of Markets (including Sports Wagering Markets), Private Equity, and Industrial Organizational Behavior	
Education	Arizona State University	1995-2002
	Doctor of Philosophy in Business Administration, w/ Finance Emphasis	
	University of Texas at Austin	1992-1994
Master of Business Administration w/ Concentration in Finance		
Montana State University	1984-1988	
Bachelor of Science in Electrical Engineering		
Publications	“ <i>Behavioral Finance and Point-Spread Wagering Markets</i> ”, a book chapter accepted in September 2011 for forthcoming publication in the <i>Oxford Handbook of the Economics of Gambling</i>	
	“ <i>Point-Spread Wagering Markets’ Analogue to Realized Return in Financial Markets</i> ”, w/ Muku Santhanakrishnan, accepted in March 2011 for forthcoming publication in <i>Journal of Sports Economics</i>	
	“ <i>The Relative Importance of Strength versus Weight in Processing New Information in the College Football Wagering Market</i> ”, w/ Muku Santhanakrishnan, <i>Journal of Prediction Markets</i> , vol. 2 no. 2, November 2008	
	“ <i>The Impact of Sentiment on Point Spreads in the College Football Wagering Market</i> ”, w/ Tod Perry, <i>Journal of Prediction Markets</i> , vol. 2 no. 1, July 2008	
	“ <i>Fraud Education for Business Majors</i> ”, w/ Bonita K. Peterson Kramer, <i>Journal of the Academy of Business Education</i> , vol. 7 no. 2, Summer 2006	
“ <i>The Market Impact of Trends & Sequences on Performance: New Evidence</i> ”, w/ Michael Hertz and J. Spencer Martin, <i>Journal of Finance</i> , vol. 60 no. 5, October 2005		

Conference Proceedings	“Do Bettors Categorize Bets?”, w/ Muku Santhanakrishnan, <i>Advances in Consumer Research</i> , vol. 37, 2009 – peer-reviewed	
Selected Works in Progress	“Do Investors Categorize When Making Financial Decisions? Evidence from a Sports Betting Market”, w/ Muku Santhanakrishnan	
	“Do Stocks with Clever Ticker Symbols Attract Sentiment?”, w/ Muku Santhanakrishnan	
Selected Presentations	“Point-Spread Wagering Markets’ Analogue to Realized Return in Financial Markets”, (w/ Muku Santhanakrishnan), Western Economics Association International 2011 Meetings, San Diego, CA	2011
	“Do Investors Categorize? Evidence from the College Football Betting Market”, (w/ Muku Santhanakrishnan)	
	University of Montana Byrnes Seminar Series, Missoula, MT	2010
	Association of Consumer Research Meetings, Pittsburgh, PA	2009
	“Behavioral Biases, Sports Wagering Markets, & Financial-Market Implications”, Montana University System Alumni Association’s “Bringing The U To You” Seminar Series, Great Falls, MT	2009
	“Do Bettors Categorize Bets?” (w/ Muku Santhanakrishnan), Gambling, Prediction Markets, and Public Policy Symposium, Nottingham Trent University, Nottingham, England	2008
	“The Relative Importance of Strength versus Weight in Processing New Information in the College Football Wagering Market” (w/ Muku Santhanakrishnan), Midwest Finance Association Meetings, San Antonio, TX	2008
	“The Impact of Sentiment on Point Spreads in the College Football Wagering Market” (w/ Tod Perry)	
	UC Riverside Conference on the Growth of Gambling & Prediction Markets: Economic & Financial Implications, Palm Desert, CA	2007
	Montana State University Department of Agricultural Economics and Economics, Bozeman, MT	2005
	“Ten Truths You Need to Know About Fraud in Business” (w/ Bonita Peterson Kramer & Gil Crain), Montana University System Alumni Association’s “Bringing The U To You” Seminar Series, Great Falls, MT	2007
	“The Market Impact of Trends & Sequences on Performance: New Evidence” (w/ Michael Hertz and J. Spencer Martin), Chicago Quantitative Alliance Semi-Annual Conference, Las Vegas, NV	2006
Selected Honors	John W. Teets Outstanding Teacher of the Year, Arizona State University W.P. Carey School of Business	2001-2002
	Gary K. Bracken Students’ Choice Excellence in Teaching Award, Montana State University College of Business	2004-2005
	MSU Alumni Association & Bozeman Area Chamber of Commerce Faculty Award for Excellence [two awards in 2009, chosen separately as most influential instructor by two of MSU’s top 40 seniors]	2009
	Keynote Speaker, Montana State University College of Business Commencement	2005
	Last Lecture Series Honoree, Arizona State University	2002-2003

FRANCIS J. KERINS, JR., CFA, Ph.D.
Curriculum Vitae

College of Business
 Montana State University - Bozeman
 441 Reid Hall
 Bozeman, MT 59717-3040

telephone: 406-994-4692
 fax: 406-994-6206
 email: fkerins@montana.edu

Academic Background:

Ph.D.	1996	Finance	Arizona State University
M.B.A.	1991	Finance	University of Washington
M.S.	1986	Mining Engineering	Montana College of Mineral Science and Technology
B.S.	1982	Mining Engineering	Columbia University
B.A.	1981	Mathematics	Carroll College of Montana

Professional Positions:

<i>Associate Professor</i>			2008- Present
<i>Assistant Professor</i>	College of Business		2005-2008
	Montana State University-Bozeman		
	Courses Taught: Corporate Finance, Entrepreneurial Finance		
<i>Visiting Professor</i>	Aarhus School of Business		Summer 2008-
	Aarhus University-Aarhus, Denmark		Summer 2010
	Course Taught: Entrepreneurial Finance		
<i>Assistant Professor</i>	Department of Finance, Insurance and Real Estate		1998-2005
	Washington State University		
	Courses Taught: Corporate Finance, Investments, Portfolio Management, Investment Management (MBA), High-Tech Finance (MBA/MTM)		
<i>Visiting Professor</i>	P.F. Drucker Graduate School of Management		1997-1998
	Claremont Graduate University		
	Courses Taught: Corporate Finance (MBA), Derivatives (MBA), Introductory Statistics (MBA)		
<i>Senior Lecturer</i>	University of Otago, New Zealand		1995-1997
	Courses Taught: Advanced Corporate Finance, Applied Investments		
<i>Teaching Assistant</i>	Arizona State University		1994
	Course Taught: Managerial Finance		
<i>Research Associate</i>	Economic Analysis Corporation		1993-1994
	Economic analysis for litigation support		
<i>Research Assistant</i>	Arizona State University		1992-1994
<i>Teaching Assistant</i>	University of Washington		1990-1992
	Courses Taught: Corporate Finance, Microeconomics		
<i>Research Assistant</i>	University of Washington		1989-1990
<i>Department Head</i>	Robert Peccia & Associates, Helena, MT		1983-1989
	Engineering, planning, and design		

Refereed Publications:

- "Why are IPOs Underpriced? Evidence from Japan's Hybrid Auction-Method Offerings," with Kenji Kutsuna and Richard L. Smith. *Journal of Financial Economics* 85(3). September 2007.
- "Opportunity Cost of Capital for Venture Capital Investors and Entrepreneurs," with Janet Kiholm Smith and Richard L. Smith. *Journal of Financial and Quantitative Analysis* 39(2), June 2004.
- "Do Nonrefunding Provisions Constrain Corporate Behavior?" *Financial Management* 30, Spring 2001.
- "New Venture Opportunity Cost of Capital and Financial Contracting," with Janet Kiholm Smith and Richard L. Smith, Proceedings of the 12th Annual Entrepreneurial Finance and Business Ventures Research Conference, Syracuse University School of Management, 2001 (refereed proceedings).
- "Exchange Traded Funds: Liquidity and Informed Trading Levels," with James Bennett, *A Guide to Exchange Traded Funds & Indexing Innovations*, Institutional Investor, 2009.
- "Exploiting Price Pressure Associated with ETF Formation: The Case of Holding Company Depository Receipts (HOLDRS)," with James Bennett, *A Guide to Exchange Traded Funds & Indexing Innovations*, Institutional Investor, 2008.

Professional Articles:

- "Financial Derivatives: Boon or Bane?" *Drucker Management*, with Richard L. Smith, 1(2), Winter 1997.

Work in Process:

- "Short Selling in Japanese IPOs," with Kenji Kutsuna and Richard Smith.
- "Opportunity Cost of Capital Revisited," with Richard Smith and Janet Kiholm Smith.
- "Assessing the Decision to Go Public: The European Evidence from Public and Private Firms," with Jan Bartholdy.
- "Valuation in the Biopharma Industry Around FDA Approval and Licensing Events," with Richard Smith.

Professional Presentations:

- "Why are IPOs Underpriced? Evidence from Japan's Hybrid Auction-Method Offerings," with Kenji Kutsuna and Richard L. Smith, at the 3rd Annual Entrepreneurship, Venture Capital, and Initial Public Offerings Conference, Tuck School of Business at Dartmouth Center for Private Equity and Entrepreneurship, June 2004.
- "Exchange Traded Funds: Liquidity and Informed Trading Levels," with James Bennett, 2002 Financial Management Association Meetings, San Antonio.
- "New Venture Opportunity Cost of Capital and Financial Contracting," with Janet Kiholm Smith and Richard Smith, at the 12th Annual Entrepreneurial Finance and Business Ventures Research Conference, Syracuse University School of Management, 2001.
- "Reasons for Issuing Nonrefundable Debt: Evidence from Calls of Nonrefundable Issues," 1998 Financial Management Association Meetings, Chicago.
- "Spreads and Depths of S&P 500 Stocks: An Analysis of the Impact of SPDRs," with James Bennett, 1997 Financial Management Association Meetings, Honolulu.

AGNIESZKA KWAPISZ

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Bozeman, MT 59717
(406) 994-4799
akwapisz@montana.edu

<http://www2.montana.edu/akwapisz/main.htm>

EDUCATION

- Ph.D. Economics, Andrew Young School of Policy Studies, Georgia State University, Atlanta, 2000 (ranked 5th in Public Finance and Budgeting by U.S. News and World Report ranking of graduate programs)
- M.S. Mathematics, University of Gdansk, Poland, 1993
-

WORK EXPERIENCE

- Visiting Professor, Montana State University, College of Business, Bozeman, Montana, (2011 - present)
 - Visiting Assistant Professor, Montana State University, College of Business, Bozeman, Montana, (2005 - 2011)
 - Research Associate, Montana State University, Department of Agricultural Economics and Economics, Bozeman, Montana, (2001 - 2007)
 - Adjunct Professor, Montana State University, Department of Agricultural Economics and Economics, Bozeman, Montana, (2001 - 2004)
 - Research Assistant, Georgia State University, School of Policy Studies, Atlanta, Georgia, (1996 - 1997)
 - Teaching Assistant, State University of New York at Stony Brook, Department of Economics, (1995)
 - Assistant Professor, University of Gdansk, Poland, Faculty of Business Administration, Department of Informational Systems (1993 - 1994)
-

REFEREED PUBLICATIONS

- "Is Higher Better? Determinants and Comparisons of Performance on the Major Field Test-Business" (with F. William Brown and Richard J. Semeniak), *Journal of Education for Business*, accepted April 2011
- "What Determines Excise Tax Rates?", *Journal of Public Finance and Public Choice* 09(1), February 2011
- "Alcohol Consumption and its Adverse Effects in Poland in Years 1950-2005", (with Zofia Mielecka-Kubien), *Economics Research International*, accepted February 2011
- "Interpreting Standardized Assessment Test Scores and Setting Performance Goals in the Context of Student Characteristics: The Case of The Major Field Test in Business" (with F. William Brown and Richard J. Semeniak) accepted November 2010, *Journal of Education for Business*

- "Erratum to: Sufficiency in Blackwell's theorem", *Mathematical Social Sciences* 58(1), July 2009
 - "Alcohol Prices, Consumption and Traffic Fatalities" (with Douglas J. Young), *Southern Economic Journal* 72(3), January 2006
 - "Sufficiency in Blackwell's theorem", *Mathematical Social Sciences* 46(1), August 2003
 - "Alcohol Consumption, Beverage Prices and Measurement Error" (with Douglas J. Young), *Journal of Studies on Alcohol* 64 (2), March 2003
 - "Alcohol Taxes and Beverage Prices", (with Douglas J. Young), *National Tax Journal* LV-1: 57-74, March 2002
-

RESEARCH UNDER REVIEW

- "Collaboration and Performance in Finance Research", *International Journal of Finance & Economics*
 - "Organizational Change: testing the deceleration hypothesis on the example of state excise taxes", *National Tax Journal*
-

WORKING PAPERS

- "The Impact of Intellectual Diversity On Academic Performance" (with F. William Brown)
 - "Differential Gender Performance on the Major Field Test—Business" (with F. William Brown)
-

RESEARCH SUPPORT

- MSU Retention Initiative 2011 Grant; Role: Co-Investigator, 2011 - 2012
 - 2010, 2009, 2008, 2007 Summer Research Grants, College of Business
 - Summer 2010 Bracken Faculty Professional Development Grant
 - National Academy of Sciences "Alcohol Policy - The U.S. and Poland" (Z3160) Role: PI, 2003-2007
 - National Institutes of Health "Taxes, Prices, Consumption, and Traffic Fatalities" (R03) Role: Co-Investigator, 2001 -2003
-

TEACHING EXPERIENCE

- Business Research Methods (Mgmt 231) – Montana State University, Bozeman
- First Year Seminar (Bus 101) – Montana State University, Bozeman
- Managerial Accounting (BUS 222) – Montana State University, Bozeman
- Public Finance (Econ 320) - Montana State University, Bozeman
- Intermediate Macroeconomics (Econ 302) - Montana State University, Bozeman
- Introductory Microeconomic Theory (Econ 201) - Montana State University, Bozeman
- Principles of Economics (undergraduate) - State University of New York at Stony Brook
- Computer Programming and Information Systems (graduate) - University of Gdansk, College of Business, Poland

ANGELA M. WOODLAND, Ph.D, CPA
Curriculum Vitae

College of Business	(406) 994-2653 office
Montana State University – Bozeman	(406) 994-6206 fax
432 Reid Hall	a woodland@montana.edu
Bozeman, MT 59717	

ACADEMIC BACKGROUND

Ph.D.	School:	University of Missouri , August 2001, Accounting
B.S. Acc	School:	University of Missouri , May 1989, Accounting

COLLEGE AND UNIVERSITY POSITIONS

2008-	Assistant Professor, Department of Accounting, Montana State University (MSU)
2004-2008	Assistant Professor, Department of Accounting, Louisiana State University (LSU)
2001-2004	Assistant Professor, School of Accountancy, University of Nebraska- Lincoln (UNL)

PROFESSIONAL EMPLOYMENT

1991-1996	Williams Keepers LLP, Senior Auditor - Financial statement audits, bank examinations, consulting
1989-1991	Price Waterhouse LLP (currently PricewaterhouseCoopers), Auditor - Financial statement audits

HONORS AND AWARDS

MSU Beta Gamma Sigma Professor of the Year, 2009
LSU Service Learning Faculty Scholar, 2008
LSU E. J. Ourso College of Business Teaching Award, 2007
LSU Department of Accounting Teaching Award, 2006
LSU University Council on Research Summer Stipend Grant, 2005
UNL College of Business Administration Distinguished Teaching Award, 2004
UNL Layman Award Research Grant, 2002
UNL Hicks Summer Research Fellowship, 2002
UNL Beta Alpha Psi Professor of the Year, 2002
UNL Distinguished Teaching Award Nominee, 2001
Certified Public Accountant, 1992, Missouri

REFEREED PUBLICATIONS

“Education Requirements, Audit Fees, and Audit Quality” with Arthur Allen, University of Nebraska, *Auditing: A Journal of Practice and Theory*, November, 2010, Vol. 29(2), pp 1-25.
“Using Service-Learning in Graduate Auditing Courses: a Standards-Based Framework,” In: B. N. Schwartz (Ed.), *Advances in Accounting Education*, 2009, Vol. 10, pp. 61-80, Greenwich, CT: JAI Press.
“The 150-Hour Requirement and the Number of CPA Exam Candidates, Pass Rates and the Number Passing” with Arthur Allen, University of Nebraska, *Issues in Accounting Education*, August 2006, Vol. 21(3), pp 173-193, also presented at the 2004 AAA Annual Meeting.

INVITED PUBLICATION

“Book Review of *Auditing and Assurance Services* by Louwers, Ramsay, Sinason, Strawser, and Thibodeau,” *Issues in Accounting Education*, May 2011, Vol. 26(2), pp 457-458.

WORKING PAPERS

“Response to ‘The Ongoing Debate about the Impact of the 150-Hour Education Requirement on the Supply of Certified CPAs’” with Arthur Allen, University of Nebraska, conditional acceptance *Issues in Accounting Education*.

PROFESSIONAL PRESENTATIONS

“Do Firms Manage Cash Flows to Meet or Beat Benchmarks?” with Renee A. Price, University of Nebraska, at a 2004 Louisiana State University research colloquium
“Restatements and Audit Quality Measures” with J. Kenneth Reynolds, Louisiana State University, at the 2004 American Accounting Association Auditing Mid-Year Meeting
“Education Requirements, Audit Fees, and Audit Quality” with Arthur Allen, University of Nebraska, at the 2008 American Accounting Association Auditing Mid-Year Meeting poster session

CONFERENCES ATTENDED

Association of Certified Fraud Examiners, Principles of Fraud Examination Seminar, 2011
American Accounting Association Western Region Meeting, 2010
American Accounting Association Auditing Mid-Year Meeting, 2004, 2007, 2008, 2011
American Accounting Association Annual Meeting, 2000, 2002-2007
Ernst & Young Faculty Consortium in Atlanta, Georgia, 2007
Communication Across the Curriculum Conference, LSU, 2005
Trueblood Seminar for Professors, 2004 and as Committee Member, 2005
University of Kansas Audit Symposium, 2004
Association of Certified Fraud Examiners Conference, 2003
KPMG Midwest Faculty Consortium, 2003
SEC/FRI Reporting Conference, 2003
American Accounting Association New Faculty Consortium, 2002

OTHER RESEARCH ACTIVITY

American Accounting Association - Auditing Section, Teaching & Curriculum Section
Discussant at AAA Western Region Meeting, 2010
Reviewer for AAA Western Region Meeting, 2009
Discussant at AAA Auditing Mid-Year Meeting, 2008
Reviewer for *Journal of Forensic Accounting*, 2005-2008
Reviewer for AAA Southwest Region Meeting, 2004
Discussant at AAA Annual Meeting, 2003
Reviewer for AAA Auditing Mid-Year Meeting, 2002

OPTION, COLLEGE, AND UNIVERSITY SERVICE

College of Business, Dean Search Committee, 2011
College of Business (Accounting Option), Internship Committee, 2011
College of Business Curriculum Committee, 2009-2010
College of Business Search Committee for Administrative Assistant, 2011
College of Business Search Committee for Visiting Professor, 2011
College of Business (Accounting Option) Faculty Search Committee Co-Chair, 2010
College of Business (Accounting Option) Faculty Search Committee, 2008, 2009
Speaker, Beta Gamma Sigma Meeting, 2009
LSU E. J. Ourso College of Business Dean Search Committee, 2007-2008
LSU Dept. of Accounting, Fraud & Forensic Accounting Conference Coordinator, 2006-2007
LSU Dept. of Accounting, Fraud & Forensic Accounting Conference Committee, 2005, 2008
LSU Service Learning Faculty Scholar, 2008
LSU Pre-Doctoral Scholars' Institute Mentor, 2005
UNL College of Business Ad Hoc Committee for Workload Adjustment Policy, 2003
UNL School of Accountancy Faculty Search Committee, 2004
UNL School of Accountancy PhD Program Committee, 2003-2004
UNL College of Business Scholarships, Honors and Awards Committee, 2001-2004
UNL Honors Foundation's Summer Reading Program, Faculty Facilitator, 2003 & 2002

PROFESSIONAL/COMMUNITY SERVICE

Speaker, Women's Circle of Excellence, Bozeman, MT, 2010
Question reviewer for Uniform CPA Examination, 2004-present
Question writer for Uniform CPA Examination, 2004-present
Member, Montana Society of CPAs, 2009-present
Member, American Institute of Certified Public Accountants, 1994-present
Trueblood Seminar for Professors Planning Committee, 2004-2005
Institute of Internal Auditors Luncheon Speaker, 2005
Amyotrophic Lateral Sclerosis Association of Baton Rouge, volunteer consultant, 2007
Spay Baton Rouge Advisory Board Member, 2005-2007
New Covenant Community Church Leadership Team member, 2002-2006
Member, Nebraska Society of Certified Public Accountants, 2001-2004
Accounting Careers Committee Member, 2002-2004
Presenter of Auditing Standards Update at Annual Meeting, 2003

Department of Education

The faculty in the *Department of Education* covers a breadth of domains in the STEM and learning sciences, which increases its capacity for doing interdisciplinary research. Education is a pragmatic discipline, and the Department embodies this by bridging theory and practice and helping people make connections in their everyday lives. The faculty recognizes that the vast majority of learning occurs outside school contexts, and its work extends to informal education. The faculty in the Department of Education connects to communities around the state, including educational leaders in rural and reservation communities, and through their schools the people of Montana connect to MSU. Presently the Department has over three dozen doctoral students, making it one of the largest doctoral programs at MSU. The Department has a history of funded research, and is supported by the Office of Funded Research under the Dean of Education, and Health and Human Development.

Faculty who provided CVs:

Joanne Erickson
Mary Leonard
Fengjen Luo
Christine Stanton

Joanne L. Erickson, Ed.D.

114 Reid Hall, Montana State University
Bozeman, Montana 59717
406-994-2290
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EDUCATION

Doctor of Education, 1989 - Montana State University, Bozeman
Master of Science, 1977 - Montana State University, Northern
Bachelor of Science, 1970 - Montana State University, Northern

PROFESSIONAL EXPERIENCE

Director of Office of Funded Research, College of Education, Health and Human Development, 2010-current

Department Head, Department of Education, Montana State University. 2009-2010

Associate Professor of Educational Leadership, Montana State University, Department of Education, 1998 - present. Program Leader: Educational Leadership

Division Administrator, Lobbyist, and Personal Staff to the State Superintendent of Public Instruction (Nancy Keenan), Office of Public Instruction, 1997-1998.

Adjunct Professor of Education, Montana State University-Bozeman; Montana State University-Northern; University of Montana-Missoula, 1990 – 1998.

Educational Administration including Director of Education (Assistant Superintendent), Principal, Director of Curriculum, Director of Federal Projects, Director of Adult and Community Education. Havre Public Schools, 1981 - 1997.

Community College Faculty in Department of Education. Fort Belknap Community College, 1979-1981.

Teacher. Havre Public Schools and Chinook Public Schools, 1971 – 1979.

AWARDS

Nominee for the Cox Faculty Award for Creative Scholarship and Teaching, 2009

Outstanding Researcher in the Department of Education. 2008

Nominee for the Phi Kappa Phi Outstanding Teacher Award, 2006.

Nominee for the Presidential Teaching award, 2005.

Montana State University Charles and Nora Wiley Faculty Award for Meritorious Research, 2004

RESEARCH AND CREATIVE ACTIVITIES: COMPETITIVELY FUNDED RESEARCH

Erickson, J & Ruff, W. (2007) Indian Leadership Education and Development (I-Lead). Funded by the US Department of Education. 2007-2011. Award: \$1,182,162

Erickson, J & Ruff, W. (2006) Indian Leadership Education and Development (I-Lead). Funded by the US Department of Education. 2006-2010. Award: \$1,109,511

Erickson, J. (2004-2006) State Action for Educational Leadership II. Funded by Wallace Foundation. \$600,000. 3-year project.

Erickson, J. (2001) State Action for Education Leadership Implementation Grant. Funded by Wallace Reader Digest. \$239,130

Erickson, J. (2001) State Action for Education Leadership Design Grant. Funded by Wallace Reader Digest. \$47,500

Erickson, J. & Howard, R. (2001) Continued Implementation of the Montana School-to-Work Statewide Data Collection and Evaluation. Funded by the Montana Office of the Commissioner of Higher Education, Helena, Montana. \$30,000

Erickson, J. & Howard, R. (2000) Statewide Assessment of Montana GEAR-UP Project, Continued. Funded by the Montana Office of the Commissioner of Higher Education, Helena, Montana. \$130,000

Erickson, J. & Howard, R. (2000) Continued Implementation of the Montana School-to-Work Statewide Data Collection and Evaluation. Funded by the Montana Office of the Commissioner of Higher Education, Helena, Montana. \$30,000

Erickson, J. & Howard, R. (1999) Statewide Assessment of Montana GEAR-UP Project. Funded by the Montana Office of the Commissioner of Higher Education, Helena, Montana. \$121,000

Erickson, J. & Howard, R. (1999) Implementation of the Montana School-to-Work Statewide Data Collection and Evaluation. Funded by the Montana Office of the Commissioner of Higher Education, Helena, Montana. \$55,000

Erickson, J. & Howard, R. (1999) Design for Montana's School-to-Work Data Collection and Evaluation System. Funded by the Montana Office of the Commissioner of Higher Education, Helena, Montana. \$14,600

Erickson, J. (1999) Continuation: Preparing Teachers for School-to-Work. Funded by the Montana Office of the Commissioner of Higher Education, Helena, Montana. \$30,000

Erickson, J. (1998) Preparing Teachers for School-to-Work. Funded by the Montana Office of the Commissioner of Higher Education, Helena, Montana. \$14,505

Erickson, J. & Kares, J. (1998). Montana School-to-Work State Plan. Funded by the U.S. Department of Education. \$9,000,000.

Mary J. Leonard, Ph.D.

Research Areas: K-16 science education; model-based reasoning in science and engineering; integrated STEM curricula

a. Professional Preparation

University of Montana	Biology - Environmental Emphasis	B.A. 1985
University of Montana	Computer Science - Scientific Applications Emphasis	B.S. 1985
University of Wisconsin-Madison	Educational Psychology (Cognitive Science Applied to Education)	M.S. 2001
University of Wisconsin-Madison	Educational Psychology (The Learning Sciences)	Ph.D. 2006
University of Wisconsin-Madison	Teaching and Learning in Science (Post-Doc)	2006-2007

b. Appointments

2008-present Assistant Professor, Science Education, Montana State University, Bozeman, MT
2006-2007 Postdoctoral Research Associate, Wisconsin Center for Education Research, University of Wisconsin-Madison
2003-2005 Assistant Professor, Military Science, University of Dubuque, IA (part-time)
2001-2003 Research Assistant, School of Education Dean's Office, University of Wisconsin-Madison
2001-2003 Research Assistant, Wisconsin Center for Education Research, University of Wisconsin-Madison
2001-2002 Teaching Assistant, University of Wisconsin-Madison School of Education.
1998-2000 Research Assistant, Wisconsin Center for Education Research, University of Wisconsin-Madison
1996-1998 Quality Assurance Manager & Software Project Management Consultant, S.I.T.A., Atlanta, GA
1993-1996 Research Engineer, Software Development, S.I.T.A., Atlanta, GA
1992-1993 Software Engineer, BDM International, Sierra Vista, AZ
1985-2005 U.S. Army & U.S. Army Reserve, Military Intelligence Officer, Germany, AZ, GA, & IA

c. Publications

(i) JOURNAL ARTICLES IN PRIMARY RESEARCH AREA

- Leonard, M. J., & Derry, S. J. (Under review). *"What's the science behind it?" The interaction of engineering and science goals, knowledge, and practices in a design-based science activity.*
- Leonard, M. J. (2005). Examining tensions in a "design for science" activity system: Science versus engineering goals and knowledge. *Tidskrift för Lärarutbildning och Forskning [Journal of Research in Teacher Education]*, 3, 132-146. Umeå, Sweden: Umeå University.
- Leonard, M. J., & Puntambekar, S. (In preparation). *Learning in context: Developing generalizations of science concepts in a design-based science classroom.*

(ii) PRESENTATIONS IN PRIMARY RESEARCH AREA

- Leonard, M. J. & Puntambekar, S. (2009, April). *Developing generalized understanding of science concepts in a middle-school design-based science classroom.* Paper presented at the Annual Meeting of the American Educational Research Association, San Diego, CA.
- Leonard, M. J. (2007, April). *What's the science behind it? Students' models of motion in a design-for-science classroom.* Paper presented at the National Association of Research in Science Teaching annual international conference, New Orleans, LA.
- Leonard, M. J., & Derry, S. J. (2007, April). *The potential for conceptual modeling to bridge designs and science: A case of opportunity missed.* Paper presented at the Annual Meeting of the American Educational Research Association, Chicago, IL.
- Leonard, M. J., & Rebello, S. (2007, April). *Change in students' conceptual models of science phenomena through CoMPASS instruction.* Paper presented at the Annual Meeting of the American Educational Research Association, Chicago, IL.
- Leonard, M. J., & Derry, S. J. (2006, June). *Tensions and tradeoffs in a "design for science" classroom: The "forces in balloon" lecture.* Proceedings of the International Conference of the Learning Sciences, Bloomington, IN.

Leonard, M. J. (2004, April). *Toward epistemologically authentic engineering design activities in the science classroom*. Paper presented at the National Association for Research in Science Teaching annual international conference, Vancouver, Canada.

d. Synergistic Activities

- 1) Developed and implemented a model-based inquiry curriculum for my undergraduate pre-service teacher course, Teaching Elementary Science, which required students to change their conceptions about teaching and learning science. I evaluated student cognitive and affective outcomes and used these results, in addition to current research, to iteratively re-design learning materials and teaching strategies.
- 2) Designed and implemented an evaluation study of a science curricular unit integrating an authentic scientific weather instrument into an alternative high-school science classroom, with the goals of improving student motivation and learning. Students showed gains in both areas.
- 3) Served on the University President's committee to formulate a plan for preparing teachers of science and mathematics in the 21st century. Part of the governors' Science and Mathematics Teacher Imperative.
- 4) As part of a team, developed and evaluated a design-based inquiry science curriculum using simple machines to teach physical science concepts. Collaborated with six middle-school teachers and their students. Study yielded insights into generalized understanding and transfer of science concepts learned in multiple contexts.
- 5) Studied integration of engineering design and science inquiry in middle-school science classrooms, identifying epistemological and learning issues in such curriculum designs. Research papers were added to a National Science Foundation reading list and used in a National Academy of Engineering project committee.

e. Grants

2011 Funded	MSU Faculty Development Award, course buy-out to support preparation and submission of research articles and a grant proposal.
2011 Submitted	NSF Research Experience for Teachers (RET) Site in Engineering grant proposal for <i>Montana Energy Technologies: Teacher Research Experience</i> . Participant on a 3-year, \$449,637 proposed grant with Dr. David Miller, Mechanical Engineering, PI; Dr. Scott Davis, Education, Co-PI. Other key personnel include Dr. Ahsan Mian, Mechanical Engineering; and Sheree Watson, College of Engineering.
2010 Funded	NSF Course, Curriculum, or Laboratory Improvement (CCLI) grant, <i>Classroom Exercises to Promote a Deep Understanding of Evolution among Biology Majors in Introductory Courses</i> . Co-PI on a 3-year, \$149,996 grant with Dr. Steven Kalinowski, Ecology, PI.
2009 Funded	Archeological Institute of America, Society Outreach Grant, <i>Newgrange, Montana</i> . Co-PI on a 1-year, \$3000 grant with Dr. Bryce Carpenter, Education, PI and Dr. John Miller, Neuroscience, Co-PI.
2008 Funded	Anasphere, Inc. PI on a 1-year, \$8250 grant for weather curriculum development and assessment.

Fenqjen Luo, Ph. D.
Montana State University
118 Reid Hall, Bozeman, MT 59717
Phone: (406) 994-5950; Email: fluo@montana.edu

EDUCATION

- Ph.D.** Mathematics Education, 2000
University of Texas at Austin
Dissertation: *Mathematics Teaching Efficacy and Reform Beliefs of Elementary School Teachers in Taiwan*
(Major Advisor: Dr. Ralph W. Cain)
- M.A.** Mathematics Education, 1996
University of Texas at Austin
Masters' Report: *Culture as a Tool to Enhance Mathematical Learning*
(Major Advisor: Dr. William T. Guy, Jr.)
- B.E.** Mathematics and Science Education, 1993
Taipei Teachers College (Taiwan)

PROFESSIONAL EXPERIENCE

- Tenure-Track Assistant Professor 2010 – present
Department of Education, Montana State University
- Tenure-Track Assistant Professor 2003 – 2010
Department of Curriculum and Instruction, University of West Georgia
- Tenure-Track Assistant Professor 2000 – 2003
Chung-Yu Institute of Technology (Taiwan)
- 4th and 5th Grade Teacher 1992 – 1994
Chung-Ke Elementary School (Taiwan)

PUBLICATIONS

Peer Reviewed Journals

- Lo, J., & Luo, F. (under review). Prospective elementary teachers' knowledge of fraction division. Manuscript submitted to *Journal of Mathematics Teacher Education*. (Luo, 40%)
- Luo, F., Lo, J., & Leu, Y. (2011). Fundamental fraction knowledge of pre-service elementary teachers: A cross-national study in the United States and Taiwan. *School Science and Mathematics, 111*, 164-177. (Luo, 40%)
- Luo, F. (2009). Evaluating the effectiveness and insights of pre-service elementary teachers' abilities to construct word problems for fraction multiplication. *Journal of Mathematics Education, 2*, 83-98.
- Luo, F. (2009). What and why Ann likes to read: A parent's perception of factors influencing her ELL child's reading interests. *Affective Reading Education Journal, 25*, 1-5.
- Luo, F. (2008). A cognitive approach to mathematical instruction: Teaching fraction division with conceptual understanding. *Becoming, 19*, 53-58.

Peer Reviewed Proceedings

- Luo, F. (2010). Evaluating Taiwanese pre-service elementary teachers' understanding about the meanings of fraction division. Brosnan, P., Erchick, D. B., & Flevares, L. (Eds.), *Proceedings of*

the 32nd Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education (Vol. 6, pp. 1140-1147). Columbus, OH: The Ohio State University.

Luo, F., Lo, J., & Leu, Y. (2009). Comparing U.S. and Taiwanese preservice elementary teachers' processes in reasoning and solving fraction problems. In S. L. Swars, D. W. Stinson, & S. Lemons-Smith (Eds.), *Proceedings of the 31st Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education* (Vol. 5, pp. 1386-1394). Atlanta, GA: Georgia State University. (Luo, 55%)

Luo, F., Lo, J., & Leu, Y. (2008). Taiwanese and U.S. prospective elementary teachers' fundamental knowledge of fractions. In O. Figueras, J. L. Cortina, S. Alatorre, T. Rojano, & A. Sepúlveda (Eds.), *Proceedings of the Joint Meeting of the International Group for the Psychology of Mathematics Education 32 and the North American Chapter of the International Group for the Psychology of Mathematics Education 30* (Vol. 3, pp. 337-344). Morelia, México. (Luo, 40%)

Book Chapters

Lin, C.Y., **Luo, F.**, & Lo, J.J. (in press). Web-based instruction: A case study of preservice elementary teachers' efficacy in modeling and reasoning with fractions. In I. L. Chen (Ed.), *Cases on Educational Technology Integration in Schools*. IGI Global. (Luo, 40%)

PRESENTATIONS

Competitively Selected or Peer Reviewed Presentations

Lin, C.Y., **Luo, F.**, & Lo, J.J. (2011, April). Web-based instruction: A study of preservice elementary teachers' efficacy in modeling and reasoning with fractions. Roundtable session accepted by the Annual Meeting of the American Educational Research Association. New Orleans, LA.

Luo, F. (2010, October). Evaluating Taiwanese preservice elementary teachers' understanding about the meanings of fraction division. Full research report presented at the 32nd Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education. Columbus, OH.

Luo, F., Lo, J., Leu, Y. (2009). Comparing U.S. and Taiwanese pre-service elementary teachers' processes in reasoning and solving fraction problems. Full research report presented at the 31st Annual Meeting of International Group – North American Chapter of Psychology Mathematics Education (PME-NA). Atlanta, Georgia.

Luo, F. (2009). Incorporating Web technology into the development of mathematics teaching materials. Poster session accepted by the 31st Annual Meeting of International Group – North American Chapter of Psychology Mathematics Education (PME-NA) as a poster presentation. Atlanta, Georgia.

Luo, F., Lo, J., Leu, Y. (2008). Taiwanese and U.S. prospective elementary teachers' fundamental knowledge of fractions. Full research report presented at the Joint Meeting of International Group (PME) and the North American Chapter of Psychology Mathematics Education (PME-NA) Morelia, México.

Kitta, Y., & **Luo, F.** (2008). Presented at the Annual Meeting and Exposition of National Council of Teachers of Mathematics (NCTM). Salt City, Utah.

Howell, S., Jackson, J., & **Luo, F.** (2007). Greater than or less than? Making sense of magnitude in math. Presented at the Annual Meeting and Exposition of National Council of Teachers of Mathematics (NCTM). Atlanta, Georgia.

Christine Rogers Stanton

Department of Education, Montana State University
(406) 994-1890; christine.rogers1@montana.edu

EDUCATION

- **Ph.D. in Education, Curriculum & Instruction** (August 2010), *University of Wyoming*
- **M.A.T. in English Education** (Summer 1999), *University of Iowa*
- **B.A. in Geography** (May 1997), *Augustana College, IL*
- **B.A. in English with Writing Emphasis** (May 1997), *Augustana College, IL*

PROFESSIONAL EXPERIENCE

- **Adjunct Assistant Professor**, Department of Education, *Montana State University, 2010-2011*
- **Instructional Facilitator**, *Fremont County School District #1, Lander, WY, 2006-2007*
- **Teacher (Distance-Based)**, *Fort Washakie Charter H.S., WY e-Academy of Virtual Learning, 2006-present*
- **Teacher**, *Lander Valley High School, Lander, WY, 1999-2006*

SELECTED PUBLICATIONS & WORKS IN PROGRESS

- **C. R. Stanton** (in press). Context and community: Resisting curricular colonization in American history courses. In *The New Politics of the Textbook* (H. Hickman & B. J. Porfilio, Eds.). Sense Publishers.
- F. Rios & **C. R. Stanton** (2011). *Understanding multicultural education: Equity for all students*. Rowman & Littlefield.
- **C. Rogers** & A. Jaime (2010). Listening to the community: Guidance from Native community members for emerging culturally responsive educators. *Equity & Excellence in Education, 43*(2), 188-201.
- **C. Rogers** (2008). Confronting Coyote: Culturally responsive pedagogy in an era of standardization. *Democracy & Education, 17*(3), 46-50.
- **C. R. Stanton** & K. Sutton. "I guess I *do* know a good story": Re-envisioning the writing process with Native American students and communities. Manuscript under review at *English Journal*.
- **C. R. Stanton**. *Hearing the story: Critical Indigenous theory and primary source representation in social studies education*. Manuscript in preparation (expected date of submission, October 2011).

SELECTED PAPERS & PRESENTATIONS

- **C. R. Stanton** & A. LeClair (2011). Indigenous community-centered literacy for social justice. Paper accepted for presentation at the Annual Convention of the *National Council of Teachers of English (NCTE)*.
- **C. Stanton** (2011). Developing culturally responsive distance learning programs with tribal communities. Presentation at the Montana University System *Extended Learning Institute*, March 2011.
- **C. R. Stanton** (2010). Decolonizing scholarship in Reservation bordertowns through community-centered participatory research. Paper presented at the Annual Convention of the *American Educational Research Association* (Division G), April 2011.
- **C. Rogers** (2010). It takes a Village: A Collaborative exploration of educator thinking about Indigenous community-centered learning. Paper presented at the Annual Convention of the *AERA* (Division B), April 2010.
- **C. Rogers**, K. Sutton, & R. Bergstrom (2010). Community-centered learning and environmental justice on tribal lands. *Shepard Symposium on Social Justice*, April 2010.
- **C. Rogers**, A. Jaime, & A. LeClair (2008). In the circle: Connecting pre-service educators & Native communities through book giveaways. *National Indian Education Association Annual Convention*, October 2008.

SELECTED AWARDS, HONORS, AND GRANTS

- Extended University grant for expanding new online programs, Montana State University, 2011. \$10,000.
- Social Justice Research Center Scholar Grant, University of Wyoming, 2009-2010. \$3,520.
- State of Wyoming Instructional Facilitator Grant, co-written (with Fremont County School District administration and other instructional facilitators), 2007. \$324,130.

CURRENT RESEARCH PROJECTS

Community-Centered Teacher Education Program Development (2010-present)

- Topics: Place-based teacher education, expanding pathways to higher education for Indigenous students, culturally responsive education, and community-centered higher education program development
- Methodology: Qualitative (community-centered participatory research and narrative inquiry)

Socially Just Representation of Social Studies Narratives (2009-present)

- Topics: Textbooks, Primary Sources, and Representations of Indigenous Peoples
- Methodology: Qualitative (narrative inquiry and critical discourse analysis)

RESEARCH INTERESTS

Education and Research for Social Justice

- Multicultural and Indigenous Education
- Collaboration with Native Communities to Develop Research Protocols
- Critical Theory and Pedagogy
- Community Collaboration in Curriculum Development/Evaluation
- Cultural, Linguistic, and Environmental Sustainability
- Comparative Studies and Multiple Perspectives of Topics
- Teachers and Students as Critical Readers/Thinkers

Innovative Instruction, Assessment, and Research Methodologies

- Community-Centered and Experiential Education
- Participatory Action Research, testimonio, Photovoice, and Digital Storytelling
- Wilderness-Based Learning and Adventure Education
- Place-Based, On-Line, and “Virtual” Education
- Innovative Practices in Rural and Reservation-Based Learning
- Balanced, Holistic, Authentic, and Performance-Based Assessment

Teacher Education and Development

- Practitioner and Pre-Service Teacher Thinking
- Culturally-Responsive Educational Models and Transformative Pedagogy
- Constructivist and Balanced Methods in Instruction and Assessment
- Connecting Theory to Practice through Reflexivity and Collaboration
- Mentorship, Professional Development, and Innovative Pedagogy

Interdisciplinary Studies

- Post-Colonial and Native American History, Geography, Anthropology, and Literature
- Critical Theory in Research Methodologies across Disciplines
- Multicultural, Native American, and Women’s Literature
- Community-Based Science, Literacy, and Social Studies Education and Research
- Alternative and Performative Representations of Experience and Research

Additional Information Available Upon Request

Department of Health and Human Development

The faculty in the *Department of Health and Human Development* has diverse research interests that converge around enriching human well being. The Department's strengths lie in its interdisciplinary and translational research activity, and its strong connections to the communities it serves. The faculty works closely with communities on topics ranging from sustainable food & nutrition systems, health in tribal communities and mental health in immigrant enclaves to strengthening families and supporting healthy understanding aging. Faculty have a strong record of external funding, and involve graduate and undergraduate students in their research activities. The Department is supported by the Office of Funded Research under the Dean of Education, and Health and Human Development.

Faculty who provided CVs:

Sandra Bailey
Katie Bark
John Christopher
Suzanne Christopher
Lynn Paul

Sandra J. Bailey

Department of Health & Human Development
Montana State University
316B Montana Hall, Bozeman, MT 59717-3540
Telephone: (406) 994-6745 E-mail: baileys@montana.edu

EDUCATION:

- 1996 Ph.D.: Human Development and Family Science; Minor, Child Development
Oregon State University, Corvallis, OR
- 1993 M. S.: Home Economics, emphasis in Child Development and Family Science
Montana State University, Bozeman, MT
- 1988 B. S.: Sociology, Minor in Human Development
Montana State University, Bozeman, MT

CERTIFICATION:

- 2000 - present Certified Family Life Educator (CFLE)
Certification through the National Council on Family Relations, Minneapolis,
MN

PROFESSIONAL POSITIONS:

- July 2010 Professor, Extension Family & Human Development Specialist, Department of
Health and Human Development, Montana State University
- 2004-2010 Associate Professor, Extension Family & Human Development Specialist,
Department of Health and Human Development, Montana State University
- 2001-2004 Assistant Professor, Extension Family and Human Development Specialist,
Department of Health and Human Development, Montana State University
- 1998-2001 Assistant Professor, Human Development, Washington State University
- 1997-1998: Assistant Professor, Family Studies, Division of Individual, Family, and
Community Education, University of New Mexico

SELECTED REFEREED JOURNAL PUBLICATIONS:

- Bailey, S. J., Letiecq, B., & Porterfield, F.** (2009). Family coping and adaptation among grandparents rearing grandchildren. *The Journal of Intergenerational Relationships, 7*(2), 144-158.
- Letiecq, B., **Bailey, S. J., & Porterfield, F.** (2008). "We have no rights, we get no help:" The legal and public policy dilemmas faced by grandparents rearing their grandchildren in informal arrangements. *Journal of Family Issues, 29*(8), 995-1012.
- Letiecq, B., & **Bailey, S. J., Kurtz, M.A.** (2007). Depression among rural Native American and European American Grandparents Raising Grandchildren. *Journal of Family Issues, 29*(3), 334-356.
- Bailey, S. J.** (2007). Unraveling the meaning of family: Voices of divorced nonresidential parents. *Marriage and Family Review, 42*(1), 81-102.
- Bailey, S. J.** (2007). Family and work role-identities of divorced parents: The relationship of role balance to well-being. *Journal of Divorce and Remarriage, 46*, (3/4), 63-82.
- Bailey, S. J.** (2003). Challenges and strengths in nonresidential parenting following divorce.

Marriage and Family Review, 35 (1/2), 29-44.

Bailey, S. J. & Zvonkovic, A. M. (2003). Parenting from a distance: Parents' perceptions of social and institutional support. *Journal of Divorce and Remarriage*, 39(3/4) 59-80.

SELECTED BOOK CHAPTERS:

Bailey, S. J., Letiecq, B. N., Erickson, M. & Koltz, R. (under review). *Pathways to resilient grandfamilies in rural areas*. B. Hayslip & G. Smith (Eds.).

Letiecq, B. L., **Bailey, S. J., & Dahlen, P.** (2008). Intergenerational Ambivalence and Caregiver Coping among Grandparents Raising Grandchildren: Implications for Clinical Intervention. (pp. 3-16). In B. Hayslip & P. L. Kaminski (Eds.) *Parenting the Custodial Grandchild*. New York: Springer Publishing.

SELECTED PROGRAM AND RESEARCH GRANTS FUNDED:

(\$1,011,134.00 in program and research grant funding received over career.)

- 2011 **Bailey, S. J.** (2011). *Grandparents Raising Grandchildren Program Expansion, Crow and Northern Cheyenne Indian Reservations*. Dennis & Phyllis Washington Foundation, \$10,000.
- 2011 **Bailey, S. J.** (2011). *Grandparents Raising Grandchildren Expansion to Rural Gallatin and Park Counties*. Beim Foundation, \$10,000.
- 2011 **Bailey, S. J. & Letiecq, B.** (2011). *Grandparents Raising Grandchildren Expansion to Crow and Northern Cheyenne Indian Reservations*. Brookdale Foundation, \$10,000.
- 2010 **Bailey, S. J.** (2010). *Grandparents Raising Grandchildren in the U.K. and EU*. MSU Provost's Short-Term Faculty Leave Grant. \$3,800.
- 2008 **Bailey, S. J.** *Supporting Older Children of International Adoptions and their Families*. MSU Dept. of Health & Human Development Mini Grant (sabbatical, \$5,668.00)
- 2008 **Bailey, S. J.** *Supporting Older Children of International Adoptions and their Families*. MSU Extension Administration (sabbatical, \$5,000)
- 2007 **Bailey, S. J.** *Addressing the Mental Health Needs of Grandparents Raising Grandchildren and their Family Members*. Beim Foundation (\$7,500)
- 2006 **Bailey, S.J. & Letiecq, B.** *Montana Grandparents Raising Grandchildren Conference Grant*. Department of Public Health & Human Services (\$50,000)
- 2005 **Bailey, S. J. & Letiecq, B.** *Montana Grandparents Raising Grandchildren Expansion Project*. Montana Children's Trust Fund (\$15,000)
- 2005 **Bailey, S. J., Letiecq, B., & Smith, A.** *Brookdale Mental Health Pilot Project*. Brookdale Foundation of New York (\$10,000)
- 2004 **Bailey, S.J. & Letiecq, B.** *Montana Grandparents Raising Grandchildren Expansion Project*. Montana Children's Trust Fund (\$10,000)
- 2003 **Bailey, S. J.** *Grandparents Raising Grandchildren*. Brookdale Foundation (\$10,000)

Katheryn S. Bark, B.S., R.D. L.N.

Project Director, Montana Team Nutrition Program
Montana State University Health & Human Development,
202 Romney Gym, PO Box 173370, Bozeman, MT 59717
406-994-5641, 406-994-7300, kbark@mt.gov

EDUCATION

Bachelor of Sciences, Clinical & Community Dietetics, University of Florida, 1981

LICENSURE/CERTIFICATION

Registered Dietitian, American Dietetic Association R604536; Licensed Dietitian, State of Montana #295

Applied Food Service Sanitation, National Institute for the Food Service Industry
ServSAFE Trainer Certification, National Restaurant Association, June 2011

ACADEMIC APPOINTMENTS

- ✓ Principal Investigator, School Nutrition Assistance Program Grant, Montana State University (MSU), Department of Health & Human Development – 1999 to present.
- ✓ Principal Investigator & Project Coordinator, Team Nutrition Training Grants I, II, III, IV, V, VI, VII, VIII, IX, X, XI, XII, XIII, X, MSU, Health & Human Development 1995- present.
- ✓ Co-Principal Investigator, Montana Nutrition and Physical Activity Program, Department of Health & Human Development, September 2004- April 2011.

MAJOR ADMINISTRATIVE RESPONSIBILITIES

- Team Nutrition Training (TNT I-X): principal investigator, project coordinator for this grant geared to implement USDA's Team Nutrition Initiative throughout schools and child care programs in Montana (from Office of Public Instruction, Helena Montana – 2003-2012).
- School Nutrition Assistance Training Programs: state coordinator, program planning, maintains resource center, and coordinates in-service training for school food service training/nutrition education to K-12 grade level school staff in Montana (interagency agreement with Office of Public Instruction – SNAP – 1999-2011).
- Montana Nutrition and Physical Activity Program: principal investigator for this grant geared to community-based obesity prevention and health promotion (from the Montana Department of Public Health and Human Services, Helena, Montana -2004-June 2011).
- Coordinator, Montana Nutrition Education and Training Program, Office of Public Instruction: Coordinate and implement school nutrition and nutrition education plan. (May 1993-August 1999).

HONORS AND DISTINCTIONS

2011 Nominated for Professional Employee Excellence Award, Montana State University, EHHD College

2010 Montana School Nutrition Professional of the Year Award, MT School Nutrition Association
2007 Montana Association of Elementary & Middle School Principals Appreciation Award for Outstanding and Dedicated Service
2003 MDA Recognized Dietitian of the Year Award
2003 Montana Association of Health, P.E. Recreation and Dance Service Award
1998 Ruth C. Bowling Award for Nutrition Education, Western Dairy Council
1997 Recognized Young Dietitian of the Year Award, Montana Dietetic Association

PUBLICATIONS

Bark, K., Stenberg, M., Sutherland, S., Hayes, D. (2010). Scheduling Recess Before Lunch: Exploring the Benefits and Challenges in Montana Schools. *Journal of Child Management and Nutrition*, 34 (2).

School nutrition and wellness policy resources developed related to food service management, nutrition education, and physical activity and located at this web site:

http://www.opi.mt.gov/Programs/SchoolPrograms/School_Nutrition/MTTeam.html

PROFESSIONAL ASSOCIATION MEMBERSHIPS

Montana Dietetic Association (MDA), and American Dietetic Association, Member, Registered Dietitian

Montana School Nutrition Association, and American School Nutrition Association, member
Eat Right Montana and Montana Action for Healthy Kids, (active member and leadership positions).

Montana Food Security Council, board member.

SELECTED SERVICE

Montana State University, HHD Outreach Committee Chairperson, 2010-2011

Public Policy Committee Co-Chairperson for MDA: Media Representative-2004-2010

John Chambers Christopher, Ph.D.
Department of Health and Human Development
(406) 994-6943 jcc@montana.edu

EDUCATION

Ph.D.	The University of Texas at Austin Counseling Psychology	1987-1992
M.Ed.	Harvard University Counseling and Consulting Psychology	1986-1987
B.A.	The University of Michigan at Ann Arbor Major: The Psychological and Philosophical Foundations of Culture	1980-1984

LICENSURE/CERTIFICATION

- Licensed Psychologist, State of Montana (#313)
- Licensed Clinical Professional Counselor, State of Montana (LCPC #619)

ACADEMIC APPOINTMENTS

Montana State University, Department of Health and Human Development Professor of Counseling	(8/95 - present)
Montana State University, Counseling and Psychological Services Senior Staff Psychologist	(8/95 - present)
The University of Guam, Department of Clinical and Human Services Assistant Professor of Counseling Psychology	(8/92 - 5/95)

HONORS AND DISTINCTIONS

- President—American Psychological Association, Society of Theoretical & Philosophical Psychology (2010-2011)
- Fellow of the American Psychological Association
- *Charles & Nora L. Wiley Faculty Award for Meritorious Research*, Montana State University (2007)
- *Sigmund Koch Award for Early Career Contribution to Psychology*, The Society for Theoretical and Philosophical Psychology (2003)

EDITORIAL BOARDS

- *Journal of Theoretical & Philosophical Psychology*
- *Journal of Humanistic Psychology*

SELECTED PUBLICATIONS

Christopher, J. C., Slife, B. D., & Richardson, F. C. (Eds.). (2008). Thinking through positive psychology [Special issue]. *Theory & Psychology, 18*(5).

Hoshmand, L. T., & Christopher, J. C. (Eds.). (2008). Theorizing on the Cultural [Special issue]. *Journal of Theoretical & Philosophical psychology, 27*.

- Christopher, J. C., Chrisman, J., Trotter, M., Schure, M., Dahlen, P. & Christopher, S. (2011). The long-term influence of mindfulness training on counselors and psychotherapists: A qualitative inquiry. *Journal of Humanistic Psychology, 51* (3), 318-349.
- Christopher, J. C. & Maris, J. (2010). Integrating Mindfulness As Self-Care Into Counselling and Psychotherapy Training. *Counselling and Psychotherapy Research, 10*, 114-125.
- Christopher, J. C. (2008). Culture, moral topographies, and interactive personhood. *Journal of Theoretical & Philosophical psychology, 27*, 168-191.
- Christopher, J. C., & Campbell, R. C. (2008). An interactivist-hermeneutic metatheory for positive psychology. *Theory & Psychology, 18*, 675-697.
- Christopher, J. C., & Hickenbottom, S. (2008). Positive psychology, ethnocentrism, and the disguised ideology of individualism. *Theory & Psychology, 18*, 563-589.
- Christopher, J. C., & Bickhard, M. H. (2007). Culture, self, and identity: Interactivist contributions to a metatheory for cultural psychology. *Culture & Psychology, 13*, 259-295.
- Christopher, J. C., Christopher, S. E., Dunnagan, T., & Schure, M. (2006). Teaching self-care through mindfulness practices: The application of yoga, meditation and qi gong to counselor training. *Journal of Humanistic Psychology, 46*, 494-509.
- Christopher, J. C., Nelson, T., & Nelson, M. D. (2004). Culture and character education: Problems of interpretation in a multicultural society. *Journal of Theoretical and Philosophical Psychology, 23*, 81-101.
- Christopher, J. C. (2001). Culture and psychotherapy: Toward a hermeneutic approach. *Psychotherapy: Theory, Research, Practice, and Training, 38*, 115-128.
- Christopher, J. C. (1999). Situating psychological well-being; Exploring the cultural roots of its theory and research. *Journal of Counseling and Development, 77*, 141-152.
- Christopher, J. C. (1996). Counseling's inescapable moral visions. *Journal of Counseling and Development, 75*, 17-25.

GRANTS

- American Heart Association. A stress Reduction Strategy for Decreasing Cardiovascular Disease (CVD) Risk by Reducing C-reactive Protein. Principal Investigator: Mary Miles, \$131,352. Role on Project: Co-Investigator.
- Montana State University Health & Human Development Special Grant (2008). Physiological and psychological influences of mindfulness practices on stress and well-being among counseling students. Principal Investigators: John Christopher, Mary Miles, Suzanne Christopher, & Tim Dunnagan. \$10,000.
- Montana State University Health & Human Development Special Grant (2006). Moral Visions of Well-being and Health Among Traditional Healers and Their Patients in Bali and Thailand. Principal Investigators: John Christopher & Suzanne Christopher. \$19,626.

BIOGRAPHICAL SKETCH

NAME: Christopher, Suzanne	POSITION TITLE: Professor
eRA COMMONS USER NAME: SCHRISTOPHER	

EDUCATION/TRAINING:

INSTITUTION AND LOCATION	DEGREE	YEAR	FIELD OF STUDY
University of Wisconsin – Stevens Point	BS MS PhD	1987	Wellness
Purdue University – West Lafayette, IN		1989	Health Education
University of North Carolina – Chapel Hill		1995	Health Behavior and Health Education

Positions

- 1989-1991 Coordinator of Health Education Services, Marion County Health Department, Indianapolis, IN
- 1993-1994 NRSA Pre-doctoral Fellow, Cecil G. Sheps Center for Health Services Research, Chapel Hill, NC
- 1991-1995 Research Assistant, University of North Carolina-Chapel Hill
 - ❖ Carolina Health and Transitions Study, Department of Health Behavior and Health Education
 - ❖ UNC Thurston Arthritis Research Center
- 1991-1995 Assistant Instructor/Teaching Assistant, University of North Carolina-Chapel Hill
 - ❖ Applied Research Methods (MPH students)
 - ❖ Public Health Program Planning and Evaluation (MPH students)
- 1995-present Assistant Professor (1995-2001), Associate Professor (2001-2007), Professor (2007-Present) Department of Health and Human Development, Montana State University
- 2005 Adjunct Instructor, Little Big Horn Tribal College

Selected peer-reviewed publications

1. **Christopher, S.**, Christopher, J.C., & Dunnagan, T. (2000). Culture's impact on health risk appraisal psychological well-being questions. *American Journal of Health Behavior*, 24(5), 338-348.
2. **Christopher, S.**, Dunnagan, T., Duncan, S., & Paul, L. (2001). Education for self-support: Evaluating outcomes using transformative learning theory. *Family Relations*, 50(2), 134-142.
3. Duncan, S.F., Dunnagan, T, Paul, L, & **Christopher, S.** (2001). EDUFAIM: A successful program helping empower rural families toward self-reliance. *Journal of Extension*, [online], 39(1). Available: <http://www.joe.org/joe/2001february/a3.html>
4. Duncan, S. F., Dunnagan, T., **Christopher, S.**, & Paul, L. (2003). Helping families toward the goal of self-support: Montana's EDUFAIM program. *Families in Society*, 84(2), 213-222.
5. Smith, A., **Christopher, S.**, & Knows His Gun McCormick, A. (2004). Development and Implementation of a Culturally Sensitive Cervix Health Survey: A Community-Based Participatory Approach. *Women & Health*, 40(2), 67-86.
6. **Christopher, S.**, Smith, A., & Knows His Gun McCormick, A. (2005). Participatory development of a cervical health brochure for Apsáalooke women. *Journal of Cancer Education*, 20(3), 173-176.
7. **Christopher, S.** (2005). Recommendations for conducting successful research with Native Americans. *Journal of Cancer Education*, 20(Suppl.), 47-51.
8. Watts, V., **Christopher, S.**, & Smith, J. (2005). Evaluation of lay health advisor training for a community-based participatory research project in the Apsáalooke community. *American Indian Culture and Research Journal*, 29(3), 59-79

9. **Christopher, S.**, Knows His Gun McCormick, A., Smith, A., & Christopher, J. C. (2005). Development of an interviewer training manual for a cervix health project on the Apsáalooke reservation. *Health Promotion Practice*, *6*(4), 414-422.
10. Burhansstipanov, L., **Christopher, S.**, & Schumacher, A. (2005). Lessons learned from community-based participatory research in Indian Country. *Cancer Control: Cancer, Culture and Literacy Supplement*, 70-76.
11. **Christopher, S.**, Dunnagan, T., Haynes, G., & Stiff, L. (2007). Determining client need: From training to practice. *Behavioral & Brain Functions*, *3*(10), doi:10.1186/1744-9081-3-10.
12. **Christopher, S.**, Gidley, A., Letiecq, B., Smith, A., Knows His Gun McCormick, A. (2008). A cervical cancer community-based participatory research project in a Native American community. *Health Education & Behavior*, *35*(6), 821-834.
13. Smith, A, **Christopher, S.**, LaFromboise, V., Knows His Gun McCormick, A. (2008). Apsáalooke women's experiences with Pap test screening. *Cancer Control*, *15*(2), 166-173.
14. **Christopher, S.**, Watts, V., Knows His Gun McCormick A., & Young, S. (2008). Building and maintaining trust in a community-based participatory research partnership. *American Journal of Public Health*, *98*(8), 1398-1406.
15. LaVeaux, D. & **Christopher, S.** (2009). Contextualizing CBPR: Key Principles of CBPR meet the Indigenous research context. *Pimatisiwin: A Journal of Aboriginal and Indigenous Community Health*. *7*(1), 1-25.
16. Simonds, V.W., **Christopher, S.**, Sequist, T.D., Colditz, G., Rudd, R.E. (2011). Exploring Patient-Provider Interactions in a Native American Community. *Journal of Health Care for the Poor and Underserved*, *22*(3), 836-852.
17. Christopher, J. C., Chrisman, J., Trotter, M., Schure, M., Dahlen, P. & **Christopher, S.** (2011). The long-term influence of mindfulness training on counselors and psychotherapists: A qualitative inquiry. *Journal of Humanistic Psychology*, *51*(3), 318-349.
18. **Christopher, S.**, Saha, R., Lachapelle, P., Jennings, D., Colclough, Y., Cooper, C., Cummins, C., Eggers, M., FourStar, K., Harris, K., Kuntz, S., LaFromboise, V., LaVeaux, D., McDonald, T. Real Bird, J., Rink, E., Webster, C. (2011). Applying Indigenous CBPR principles to partnership development in health disparities research. *Family & Community Health*, *34*(3), 246-255.

Current Research Support

Steele-Reese Foundation Christopher, PI 9/10-9/11
 Messengers for Health: Capacity building for sustainability \$20,000
 The purpose of this foundation grant is to assist the Messengers for Health research project to transition into a successful Native non-profit organization.

P20MD002317-S NIH/NCMHD Christopher, PI 9/09-09/11
 ARRA Supplement to the Center for Native Health Partnerships \$600,000
 This supplement provides funds for salary and training for Community Organizers located on Montana's seven Indian reservations.

RSGT-01-193-05-CPPB American Cancer Society Christopher, PI 7/05-7/11
 Messengers for Health \$1,520,000
 The purpose of this study is to determine the impact of a social ecologically-based intervention on cervical cancer screening rates on the Apsáalooke (Crow Indian) Reservation. The intervention includes a lay health advisor and Indian Health Service cultural competency component. 3.4 person-months

P20MD002317 NIH/NCMHD Christopher (PI) 10/07-7/12
 The Consortium for Community-Based Research in Native American Health \$6.5 million
 Exploratory Center of Excellence on Health Disparities
 Mission: To reduce health disparities of Native Americans in Montana through community-based research projects that are conducted in partnership between community members and health researchers.

LYNN C. PAUL, EdD, RD

Extension Food & Nutrition Specialist/Professor

Department of Health and Human Development, Montana State University
Bozeman, MT 59717-3370 phone:(406) 994-5702

EDUCATIONAL BACKGROUND

EdD MONTANA STATE UNIVERSITY, BOZEMAN, MONTANA, 1992
Adult and Higher Education

MS UNIVERSITY OF TENNESSEE, KNOXVILLE, TENNESSEE, 1979
Public Health Nutrition

BS PENNSYLVANIA STATE UNIVERSITY, UNIVERSITY PARK, PENNSYLVANIA, 1978
Community Nutrition

PROFESSIONAL EXPERIENCE- Current:

Professor, State Food and Nutrition Specialist, Montana State University Extension Service, Bozeman, Montana. Provides leadership for extension educational activities in food and nutrition to address critical and emerging issues impacting Montana's consumers and families. Works cooperatively with field faculty to assess needs and develop programs, establish interdisciplinary coalitions, conduct research and disseminate information. (Full-time, 12 month appointment)

RESEARCH/CREATIVE ACTIVITY

A. Refereed Journal Articles (2005-current)

Eldridge, G., Lynch, W., Bailey, S., Benke, C., Martz, J., Paul, L. (2011). Parenting practices that can prevent or reduce childhood obesity. *Journal of Youth Development* (accepted).

Bailey, S., Paul, L. (2008). Meeting the needs of rural caregivers: the development and evaluation of an Alzheimer's Caregiving series. *Journal of Extension*: 46:1.

Astroth, K., Bailey, S., Paul, L., Linkenbach, J., Vogel, M., Lande, G., (2007). Tools for Schools- The MSU Meth Prevention Education Initiative. Programs of Distinction Manuscript. National 4-H Headquarters. Online: http://www.national4-headquarters.gov/about/pod-health/tools_for_schools.pdf

Paul, L., Stenberg, M., (2006). Celebration of safe foods at pow wows video. *Journal of the American Dietetic Association* 106:8 S2, A-53.

Pelican S., Paul, L., Raidl, M., Gossett, L., Lanting, R. (2006). Steps to a New You helps participants change lifestyle habits related to food, physical activity, and body image. *Journal of Nutrition Education and Behavior*: 38:4, S35.

Cudney, S., Sullivan, T, Winters, C, Paul, L., Oriet, P.(2005). Chronically ill rural women: self-identified management problems and solutions. *Chronic Illness*.: 1, 49-60.

Paul, L., (2005). Obesity and eating disorders in youth: making the prevention connection, a workshop for educators, health professionals, and community organizers. *Journal of Nutrition Education and Behavior*: 37: S2, S153.

B. Other Creative/Research Activity (2005-current)

Paul, L., Benke, C. Martz, J., Bailey, S. (2010). 4-Health Curriculum-Parent Guide and Facilitator Guide. Bozeman: Montana State University.

Paul, L., Seguin, R., Lynch, W., Eldridge, G. (2008-current) Conducting research with Montana's Strong Women participants.

Paul, L. (2010-2011) Research participant in StrongWomen- Healthy Hearts research and educational project. Tufts University, Boston, MA.

Paul, L., Bark, K. (2007). Smart Role Modeling for Teachers: Wellness for All: Curriculum for Extension agents that will assist teachers to identify and practice healthy role modeling behaviors in the classroom.

Goetting, M., Paul, L. (2007). Revision of the Small Steps to Health and Wealth program originally developed by Rutgers University (2006). Developed major revisions to train the trainer materials and PowerPoint, participant Power Points and resources, teaching resources, program evaluation, marketing material, and creation of a MSU Small Steps to Health and Wealth website <http://www.montana.edu/sshw>.

Andrews, T., Paul, L. Bailey, S., Goetting, M. (2007). Caregiver's Toolkit (Tenderhearts). Curriculum and caregiver notebook for Extension agents and other health professionals to teach caregivers an interdisciplinary approach to information, skills, and resources for providing optimal caregiving. Caregiver Toolkit is a notebook that assists caregivers in documenting and updating caregiver status in a variety of areas such as medical, nutritional, emotional, financial, and others.

C. Grants received (2005-current)

Paul, L., Lynch, W. (2009-12). Family and Community Influences on Childhood Obesity Development: An Integrated Research and Outreach Program for the State of Montana. CSREES, USDA, \$1,496,920 for 4 years.

PI: Stark, C.; Collaborators: Paul, L., Nitzke, S., Linda Bobroff, L. (2010-2015). Building the Capability of Extension Professionals to Apply an Ecological Approach to Prevention Childhood Obesity in their Communities. USDA Agriculture and Food Research Initiative, AFRI Human Nutrition and Obesity Program National Institute of Food and Agriculture, \$499,927, 2010-2015.

Clary, J, Dunn, C, Morgan, K, Owen, S, Paul, L. (2008). Families, Food, & Fitness: Preventing Obesity. eXtension, University of Nebraska, \$49,789.

Paul, L., Campbell, C., Miles, M. (2008). Strong Women Strength Training for Rural Women: Multi State Integrated Research and Education Project. Health and Human Development, Montana State University, \$1,900.

Paul, L., Lynch, W. (2007). Human Nutrition and Obesity. Clinical Research Development Program. Office of Research, Creativity and Technology Transfer, Montana State University, \$13,000.

Harmon, A., Campbell, C., Paul, L. (2006) Food and Health Studies in Health and Human Development: An Assessment of Needs and Opportunities to Inform Development of an Interdisciplinary Major. Montana State University, Health and Human Development, \$8018.

Astroth, K., PI, Martz, J. Project Coordinator, Paul, L., Dennee, P., Project Facilitators. (2006). Media Smart Youth. Academy for Educational Development, \$15,000.

Weinert, C. (PI). Cudney, S., Haynes, D., Hill, W., Paul, L., Sullivan, T., Winters. C. (Co Investigators). (2006). Rural Chronically Ill Women: Online Support Network. National Institute of Nursing Research, National Institute of Health. \$1,399,894.

Paul, L. (2006). Steps to a New You Program Implementation. Montana Nutrition and Physical Activity Project. Montana Department of Health and Human Development. \$5,000.

Paul, L. (2006). Steps to a New You Program Implementation for Older Adults. Montana Nutrition and Physical Activity Project, Montana Department of Health and Human Development. \$2,000.

Paul, L. (2005). Tribal College Food Safety Outreach Project. USDA/FSIS, \$40,000.

Paul, L. (2005). HACCP and Food Safety Training Outreach Projects. USDA/FSIS, \$7,500.

Department of History, Philosophy and Religious Studies

The substantive strengths of the *Department of History, Philosophy and Religious Studies* include the history of science, technology and the environment. The Department has a Ph.D. program that focuses in this area, the only such program in the state. The history faculty includes historians of technology, modern science and physical sciences, but it does not include an historian of the biological sciences. The philosophy faculty includes those with strengths in the philosophy of science and ethicists, some of whom have already connected with interdisciplinary opportunities (e.g., the Astrobiology group at MSU). These strengths have allowed the Department to build bridges between natural sciences and humanities at MSU. In addition to these strengths, which align closely with interdisciplinary endeavors at MSU, the department is particularly strong in American history and especially history of the American West.

Faculty who provided CVs:

Prasanta Bandyopadhyay

Kristen Intemann

Mary Murphy

Michael Reidy

Billy Smith

Brett Walker

CV

Prasanta S. Bandyopadhyay

Professor of Philosophy & an affiliate to
Astrobiology Biogeocatalysis Research Center
Montana State University

Website: prasantasbandyopadhyay.org

Email: psb@montana.edu

Education

Ph.D., Philosophy

University of Rochester, Rochester, NY, 1995

M.A., Philosophy

University of Rochester, Rochester, NY, 1990

M.Phil., Philosophy

Jadavpur University, Calcutta, India, 1987

Specialization

Philosophy of Science, Epistemology and Indian Philosophy

Referred Edited Volume

- *Handbook of Philosophy of Statistics*. Elsevier, 2011. (With Malcolm Forster).

Referred Publication

- “The Logic of Simpson’s Paradox”. *Synthese*, 2011, Fall ((With Nelson, Greenwood, Brittan, and Berwald.
- “Elementary Probability & Statistics: A Primer.” In P.S. Bandyopadhyay & M. Forster (eds.) *Handbook of Philosophy of Statistics*. Elsevier; 2011. (With Steve Cheery)
- “Philosophy of Statistics: An Introduction to the Volume” to *Handbook of Philosophy of Statistics*. (With Malcolm Forster). Elsevier, 2011.
- “Two Dogmas of Strong Objective Bayesianism.” In *International Studies in the Philosophy of Science*, 2010, March. (With Gordon Brittan)
- “How to Undermine Underdetermination?” *Foundations of Sciences*. 2010. Jan. (With John Bennett) (The paper has been accepted for publication. However, we need to revise some parts of the paper in light of the referee reports.)
- “Why Bayesianism: A Primer on a Probabilistic Philosophy of Science.” In *Bayesian Statistics and its Applications*. (eds.) D. Dey and S.K. Upadhyay, Amaya Publishing Company, New Delhi, 2007
- "Acceptance, Severity and Evidence." With Gordon Brittan, *Synthese*, 2006.

Referred Long Abstract (Web-Published)

- "Astrobiology as an Emerging Science: What does it Tell Philosophers" *Ab-SciCon-2010* (<http://www.lpi.usra.edu/meetings/abscicon2010/pdf/5296pdf>).

Talks Delivered

- "The Logic of Simpson's Paradox." *Indian Institute of Science Education & Research*, Mohanpur, India, 6 Jan, 2010.
- "Astro-biology as an Emerging Science: What does it tell Philosophers?" *Astro-biology Science Conference (AbSciCon) 2010*, Houston, April.
- "The Logic of Simpson's Paradox." *Society for Exact Philosophy meetings*, 2009, University of Alberta, May.
- "The Duhem-Quine Thesis." *British Society for the Philosophy of Science University of St. Andrews*, 2008, St. Andrews, July.
- "The Duhem-Quine Thesis." *American Philosophical Association*, Central Divisional meetings, 2008, Chicago, April.
- "The Belief/Evidence Distinction: A Fresh Look at Epistemology" *Society for Exact Philosophy meetings*, 2008, University of Wyoming, May.
- "The Duhem-Quine Thesis?" *Society for Exact Philosophy meetings*, 2007, University of British Columbia, May.
- "Two Dogmas of Strong Objective Bayesianism." In *PROGIC 2005*. London School of Economics & Political Science, London, July, 2005.
- "Four Concepts of Statistical Evidence." Western Ontario University, Canada, March, 2001.
- Science and Value Conference, "Simplicity: Their View, Our View," University of Alabama, Birmingham, Feb, 2001.

Grants and Awards

- *Scholarships & Creativity Grant*, 2011-2012 (\$7,000)
- MSU Astrobiology Center NASA Grant, 2007-12 (**\$6 million dollar grants**). The principle investigator is John Peters, MSU Chemistry. I am one of the five co-investigators of this project.
- EPSCOR (NSF), 2001, Jan to June, \$2,000.
- *National Endowment for the Humanities* Summer Seminar Stipend: 1999, \$3,800.

KRISTEN K. INTEMANN

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1104 S. Montana Ave. #F3
Bozeman, MT 59715
Home: (406) 599-2988
E-mail: intemann@montana.edu

ACADEMIC EMPLOYMENT

2011-Present Associate Professor, Philosophy, Department of History & Philosophy,
Montana State University
2005-2011 Assistant Professor, Philosophy, Department of History and Philosophy,
Montana State University

EDUCATION

Ph.D.	2004	University of Washington (Philosophy)
M.A.	1997	University of Washington (Philosophy)
B.A.	1995	University of Iowa (Philosophy and Political Science, with honors)

ACADEMIC EXPERTISE: Philosophy of Science (with an emphasis on understand scientific objectivity and bias), Biomedical and Research Ethics, Feminist Philosophy (particularly gender issues in science).

SELECTED PEER REVIEWED PUBLICATIONS:

Intemann, K. and de Melo-Martín, I. (forthcoming 2012) “Commercialization of Biomedical Research and the Limits of Impartiality,” in *Objectivity in Science*, Alan Richardson, Flavia Padovani, and Jonathan Tsou (eds.), Chicago University Press.

Intemann, K. and de Melo-Martín, I. (2011). Bias, impartiality, and conflicts of interest in biomedical sciences. In *Science At The Frontiers: Perspectives on the History & Philosophy of Science*, William Krieger (ed.), Landham: Roman & Littlefield.

de Melo-Martín, I. and Intemann, K. (2011). Feminist resources for biomedical research: Lessons from the HPV vaccines. *Hypatia: A Journal of Feminist Philosophy* 26(1): 79-101.

Intemann, K. (2011). Diversity and dissent in science: Does democracy always serve feminist aims? In *Feminist Epistemology and Philosophy of Science: Power in Knowledge*, Heidi Grasswick (ed.), Dordrecht, Netherlands: Springer; 111-132.

Intemann, K. (2010). Twenty-five years of feminist empiricism and standpoint theory: Where are we now? *Hypatia: A Journal of Feminist Philosophy* 25(4): 778-796.

Intemann, K. and de Melo-Martín, I. (2010). Social values and evidentiary standards: The case of the HPV vaccine. *Biology and Philosophy* 25(2): 203-213.

- Intemann, K. (2010). Standpoint empiricism: Rethinking the terrain in feminist philosophy of science. In *New Waves in Philosophy of Science*, P.D. Magnus and Jacob Busch (eds.), Hampshire, UK: Palgrave MacMillan; 198-225.
- Intemann, K. (2009). Why diversity matters: Understanding and applying the diversity component of the NSF's broader impacts criterion. *Social Epistemology* 23, 3-4: 249-266.
- de Melo-Martín, I. and Intemann, K. (2009). How do disclosure policies fail? Let us count the ways. *Federation of American Societies for Experimental Biology Journal* 23:1638-1642.
- Intemann, K. (2008). Increasing the number of feminist scientists: Why feminist aims are not served by the underdetermination thesis. *Science & Education, Special Issue: Women, Science Education, and Feminist Theory*, Cassandra Pinnick (ed.) 17 (10): 1065-1079.
- Intemann, K. and de Melo-Martín, I. (2008). Regulating science: Should scientists be left alone? *Federation of American Societies for Experimental Biology (FASEB) Journal*, 22: 654-658.
- de Melo-Martín, I. and Intemann, K. (2007). Can ethical reasoning contribute to better epidemiology? A case study in research on racial health disparities. *European Journal of Epidemiology* 22:215–221.
- Intemann, K. (2005). Feminism, underdetermination, and values in science. *Philosophy of Science* 72(5): 1001-1012.
- Intemann, K. (2001). Science and values: Are moral judgments always irrelevant to the justification of scientific claims? *Philosophy of Science* 68(3):S506-518.

RECENT SELECTED GRANTS/AWARDS:

- | | |
|-----------|---|
| 2009-2011 | NIH INBRE Grant, (\$50,000) “Promoting Socially Responsible Science” |
| 2006-2010 | Scholarship and Creativity Awards, Office of the Vice President for Research, Creativity, and Technology Transfer, MSU |
| 2009 | President’s Excellent in Teaching Award, Montana State University |
| 2009 | Best Paper, Untenured Faculty Member, “How Do Disclosure Policies Fail? Let Us Count the Ways,” with Inmaculada de Melo- Martín, awarded by the Association for Practical and Professional Ethics |

RECENT SYNERGISTIC ACTIVITIES

- | | |
|----------------|---|
| 2011 – Present | Philosophy of Science Association 2012 Program Committee |
| 2011 | National Science Foundation, Advisory Panel, Washington D.C. |
| 2009-Present | Astrobiology Focus Group (Ethical & Social Impacts of Origins of Life Research), Astrobiology Biogeochemistry Research Center, Montana State University |
| 2008-2010 | Co-Chair, Philosophy of Science Association Women’s Caucus |
| 2008-2009 | Research Integrity Committee, Subcommittee on the Responsible Conduct of Research, MSU |

Mary Murphy
Department of History & Philosophy
Montana State University
Bozeman, Montana 59717-2320
406-994-5206
Fax: 406-994-7420
E-mail: mmurphy@montana.edu

Positions

Professor, Department of History and Philosophy, Montana State University (MSU), 2003-
 Michael P. Malone Professor of History, Department of History and Philosophy, MSU, 2005-
 2010

Associate Professor, Department of History and Philosophy, MSU, 1996-2003

Assistant Professor, Department of History and Philosophy, MSU, 1990-1996

Visiting Instructor, University of Wyoming, 1989-1990

Affiliate Research Associate of History, Museum of the Rockies, 2002-2008

Education

Ph.D., University of North Carolina at Chapel Hill, 1990

M.A., University of North Carolina at Chapel Hill, 1983

B.A., summa cum laude, University of Massachusetts at Boston, 1977. Department Prize for
 Distinction in Political Science

Select Publications

“Remember Me: A History of Work and Beauty in Montana Quilts” in *Border to Border: Quilts and Quiltmakers of Montana*, Annie Henshaw. Helena: Montana Historical Society Press, 2009; a shorter version of this essay appeared as “Montana Quilts and Quiltmakers: A History of Work and Beauty,” *Montana Magazine of Western History* 58:3 (Autumn 2008): 23-25 & 33-47.

“Latitudes and Longitudes: Teaching the History of Women in the U.S. and Canadian Wests,” in *One Step over the Line: Toward a History of Women in the North American West*, eds., Elizabeth Jameson and Sheila McManus. Edmonton: University of Alberta Press, 2008, pp. 411-25.

“Elizabeth Davey Lochrie: A Well-Ordered Life,” in *Motherlode: Legacies of Women’s Lives and Labors in Butte, Montana*, eds., Janet L. Finn and Ellen Crain. Livingston, Montana: Clark City Press, 2005, pp.184-96.

Hope in Hard Times: New Deal Photographs of Montana, 1936-1942. Helena, Mont.: Montana Historical Society Press, 2003. Recipient of Montana Book Award, 2003.

Montana Legacy: Essays on History, People, and Place. Co-editor with Harry W. Fritz and Robert R. Swartout, Jr. Helena, Mont: Montana Historical Society Press, 2002.

Like A Family, The Making of a Southern Cotton Mill World. Co-author with Jacquelyn Dowd Hall, James Leloudis, Robert Korstad, Lu Ann Jones and Christopher B. Daly. Chapel Hill: University of North Carolina Press, 1987, 2nd edition, with Afterword, (pp. 364-383) 2000. Recipient of the 1988 Albert J. Beveridge Award, 1988 Merle Curti Social

History Award, the 1987 Philip Taft Labor History Award, the 1988 North Carolina Society of Historians Merit Award of Recognition, and 1988 Honorable Mention for the John Hope Franklin Prize.

Mining Cultures: Men, Women, and Leisure in Butte, 1914-41. Urbana: University of Illinois Press, 1997. Recipient of 1998 Barbara Sudler Award, Colorado Historical Society; 1998 Spur Award Finalist in Contemporary Nonfiction, Western Writers of America; 1997 Choice Outstanding Book.

Recent Grants & Fellowships

Beinecke Fellowship, Yale University, 2008.

Cody Institute for Western American Studies, Buffalo Bill Historical Center, 2007.

NEH Summer Institute, American Maritime People, Mystic Seaport, 2006.

Scholarship & Creativity Grant for the Advancement of the Arts, Humanities, & Social Sciences, Office of Vice President for Research & Creativity, MSU, 2006-2007.

Recent conference papers

“In Light of Gender: Geraldine Moodie’s Photographic Legacy,” Place and Replaces, A Meeting of Western Canadian Studies & St. John’s College Prairies Conference, Winnipeg, September 16-18, 2010.

“Birds and Beats: Evelyn Cameron and L.A. Huffman in Montana” at Organization of American Historians meeting, Seattle, March 27, 2009.

“Legislating Loyalty: State Prosecution of World War I in the Pacific Northwest,” at Western History Assoc. meeting, Salt Lake City, October 22-25, 2008.

“Whaling and Ethnography in the North American Arctic,” International Maritime Economic History Association Congress, 2008, Greenwich, England, June 23-27, 2008.

“Reconsidering the Relationship between Native American Women and Horses,” Western History Assoc. Conference, Fort Worth, Texas, October 8-11, 2003.

Public History

Reviewed grant proposals for NEH Division of Public Programs, 2010; NEH Division of Preservation and Access, 2000, 1996, 1995; NEH Division of Research and Education, 2001, 1998.

Advisor, “The World of K.D. Swan,” a film by Marcia Hogan and Libby Langston, 2010;

“Butte, America: The Saga of an American Mining Town,” a film by Pam Roberts;

“Weathering the Years,” NEH planning grant, Museum of the Rockies, 2006.

Guest Curator, “Hope in Hard Times: New Deal Photographs of Montana,” Montana Historical Society, 2001-2002.

Member, Montana Historical Society Board of Trustees, 1997-2005.

Member, Montana Committee for the Humanities, 1992-1995.

Speakers Bureau, Montana Committee for the Humanities, 1999-2010.

Courses: America and the World before 1865; Trans-Mississippi West; Gender in America; Gender in the U.S. & Canadian Wests; Gilded Age to 1941; Women’s Camera Work; Gender and Regionalism: the South & the West; the American West, Historical Methods, Public History

Michael Sean Reidy

Department of History and Philosophy
Montana State University
2-170 Wilson Hall
Bozeman, MT 59717

221 S. 10th Ave.
Bozeman, MT 59715
ph: 406-579-9508
mreidy@montana.edu

Education

University of Minnesota, Ph.D. 1999
Program in the History of Science and Technology

University of Cambridge, Visiting Studentship, 1997-98

University of Mississippi, Department of Physics, 1991-1992

University of Notre Dame, B.A. 1991
Program of Liberal Studies

Academic Appointments

Associate Professor, Montana State University, 2006 – present
Director of Graduate Studies, Department of History, 2006 – 2007, 2008 – present

Assistant Professor, Montana State University, 2000 – 2006

Visiting Assistant Professor, University of Oklahoma, 1999-2000

Publications

Books

Tides of History: Ocean Science and Her Majesty's Navy (Chicago and London: University of Chicago Press, 2008).

Exploration and Science (New York: ABC-CLIO, 2006). Co-authored with Erik Conway and Gary Kroll.

Communicating Science: The Scientific Article from the 17th Century to the Present (Oxford and New York: Oxford University Press, 2002; Parlor Press (paperback), 2009). Co-authored with Alan G. Gross and Joseph E. Harmon.

Supervising Editor, "Associate Laborers," *Dictionary of Nineteenth Century British Scientists*, 4 vols., edited by Bernard Lightman (Bristol: Thoemmes Press, 2004).

Co-General Editor, *The Complete Correspondence of John Tyndall*, 13 vols. (under contract with Pickering and Chatto)

Articles

"The Rucksack of Joseph Dalton Hooker," *Alpinist Magazine* (Winter, 2010-2011), pp. 83-86.

“John Tyndall’s Vertical Physics: From Rock Quarries to Icy Peaks,” *Physics in Perspective* 12 (2010), pp. 122-145.

“The Royal Navy and the Rise of Modern Geophysics,” *Trafalgar Chronicle*, No. 18 (2008), pp. 222-237.

“At the Height of Empire: Halford John Mackinder and the Foundation of Geography in England,” *Newsletter of the History of Science Society* 37, no. 2 (2008): 24, 18-19.

“Masters of Tidology: the Cultivation of the Physical Sciences in Early Victorian Liverpool,” *Transactions of the Lancashire and Cheshire Historical Society* 152 (2003), pp. 45-71.

“Scientific Argument in the 17th Century: A Rhetorical Analysis with Sociological Implication,” *Social Studies of Science* 30 (2000), pp. 371-397. Co-authored with Alan G. Gross and Joseph E. Harmon.

Book Chapters

“From Oceans to Mountains: Constructing Space in the Imperial Mind,” In *Knowing Global Environments: New Historical Perspectives on the Field Sciences*, edited by Jeremy Vetter (Rutgers University Press, 2010).

“Introduction,” pp. 1-14 in Helen M. Rozwadowski and Keith R. Benson (eds.) *Extremes: Scientists, Oceanography, and the Poles* (New York: Science History Publications, 2007)

“Gauging Science and Technology in the Early Victorian Era,” pp. 1-31 in Helen M. Rozwadowski and David K. Van Keuren (eds.), *The Machines in Neptune’s Garden: Historical Perspectives on the Marine Environment* (Science History Publications, 2004).

Awards

Charles & Nora L. Wiley Faculty Award for Meritorious Research, April 2009. This is the most prestigious research award in the College of Letters and Science at Montana State University. College of Letters and Science, Outstanding Teaching Award, 2004-2005. This is the most prestigious teaching award in the College of Letters and Science at Montana State University.

Fellowships and Grants

National Science Foundation, Collaborative Research Grant, Science and Technology Studies. PI, “John Tyndall and Nineteenth-Century Science.” September 2009. \$580,000.

National Science Foundation, Small Grant in Training and Research, Science and Technology Studies. Co-PI, “Mile High, Mile Deep: Imagining and Modifying Topographical and Subterranean Environments,” March 2004. \$300,000.

National Science Foundation, Arctic Social Science Program, Co-PI, “Maury Workshop in the History of Polar Oceanography, April 2004. \$35,000.

BRIEF CURRICULUM VITAE: BILLY G. SMITH

Professor of History & Distinguished Professor of Letters and Science
Department of History & Philosophy
Montana State University
Bozeman, MT 59717
bgs@montana.edu; work: 406-994-5207

October 2009
602 S. 6th St.
Bozeman, MT
59715
406-586-4025

EMPLOYMENT

Professor of History (1990-present); Associate Professor (1985-89); Asst. Professor (1981-85),
Department of History & Philosophy, MSU
Distinguished Professor of Letters and Science (2008-2011)
Michael P. Malone Professor of History (2002-05): three-year appointment
Acting Director (Spring, 1995) and Associate Director (Fall, 1994), Philadelphia Center for
Early American Studies, University of Pennsylvania

AWARDS, GRANTS & FELLOWSHIPS

Fellowship from the National Endowment for the Humanities/Library Company of Philadelphia,
Winter/Spring, 2010
Grant from INBRE (National Institute of Health), 2009-10
Elected Member of the American Antiquarian Society (Worcester, Mass.), 2006
Acclaimed at the Early American Salon in Philadelphia as one of the two best stand-up
comedians among Early American Historians (damning with faint praise)
L&S Research Enhancement awards 2004-07
James and Mary Ross Provost's Award for Excellence in Undergraduate Teaching, 2000
Grant from the Hewlett Foundation to "reinvent" the MSU CORE (\$150,000) in 1998-2000, and
renewal (\$150,000) in 2000-02 (a member of a five-person committee)
Scholarship and Creativity Grant, MSU, 1999-2000, 2000-02, 2002-03, 2003-04, 2004-10
Cox Award for Excellence in Teaching and Research at MSU, 1994

PUBLICATIONS

Ship of Death: The Voyage that Changed the Atlantic World (National Geographic Books,
forthcoming Spring, 2011).
Class Matters: Early North America and the Atlantic World (University of Pennsylvania Press,
2008). With Simon Middleton
Down and Out In Early America (University Park, Pa.: Penn State Press, 2004). Hardback and
paperback.
Encyclopedia of American History: Colonization and Settlement, 1685-1763 (New York: Facts
on File, 2003), Volume 2 of Gary B. Nash, series editor, *Encyclopedia of American
History*. Revised edition *forthcoming* 2009.
*"A Melancholy Scene of Devastation": The Public Response to the 1793 Philadelphia Yellow
Fever Epidemic* (Philadelphia: Science History Publications, 1997). With J. Worth Estes.
Life in Early Philadelphia: Documents from the Revolutionary and Early National Periods
(University Park, Pa.: Penn State Press, 1995). Hardback and paperback.
The Infortunate: The Voyage and Adventures of William Moraley, An Indentured Servant
(University Park, Pa.: Penn State Press, 1992). With Susan E. Klepp. Hardback &
paperback. Revised second edition, July, 2005.

The "Lower Sort:" Philadelphia's Laboring People, 1750-1800 (Ithaca, N.Y.: Cornell University Press, 1990). Paperback, 1993.

Blacks Who Stole Themselves: Advertisements for Runaways in the Pennsylvania Gazette, 1728-1790 (Philadelphia: Univ of Pennsylvania Press, 1989). With Richard Wojtowicz.

Co-editor of "Class and Early America," an issue of the *William and Mary Quarterly* (Spring 2006). With Simon Middleton.

Co-editor of an edition of *Early American Studies: An Interdisciplinary Journal* (Fall, 2005): "Deference in Early North America." With Simon Middleton.

Co-editor of an edition of *Labor: Studies in Working Class History of the Americas* (Fall 2004): "Class Analysis in Early America and the Atlantic World: Foundations and Future." With Simon Middleton.

"It's the Economy and Class, Stupid," *Pennsylvania Magazine of History and Biography* (January, 2010), *forthcoming*.

"Benjamin Franklin: Civic Improver," in Page Talbott, ed., *Benjamin Franklin: In Search of a Better World* (New Haven, Conn.: Yale University Press, 2005), 91-124.

"Resisting Inequality: Black Women Who Stole Themselves in Eighteenth-Century America" in Carla Gardina Pestana and Sharon V. Salinger., eds., *Inequality in Early America* (Hanover, N.H: University Press of New England, 1999), 134-159.

"Runaway Slaves in the Mid-Atlantic Region during the Revolutionary Era," in Ronald Hoffman and Peter J. Albert, eds., *'The Transforming Hand of Revolution': Reconsidering the American Revolution as a Social Movement* (Charlottesville: University Press of Virginia, 1996), 199-230.

"The Vicissitudes of Fortune: The Careers of Laboring Men in Philadelphia, 1750-1800," in Stephen Innis, ed., *Work and Labor in Early America* (Institute of Early American History: University of North Carolina Press, 1988), 221-251. Hardback and paperback editions.

"Inequality in Late Colonial Philadelphia: A Note on Its Nature and Growth," *William and Mary Quarterly*, XLI, 3d Series (October, 1984), 629-645.

"Laboring Americans and the American Revolution," *Labor History*, Volume 24, No. 3 (Summer, 1983), 414-439. With Gary B. Nash and Dirk Hoerder.

"The Material Lives of Laboring Philadelphians, 1750-1800," *William and Mary Quarterly*, XXXVIII, 3d Series (April, 1981), 163-202. Reprinted in Robert St. George, ed., *Material Life in America, 1600-1860* (Northeastern University Press: Boston, 1988), 233-260; and in Peter Charles Hoffer, ed., *The Pace of Change: Politics and Society in Pre-Revolutionary America* (Garland Publishing Inc.: N.Y., 1990).

CONFERENCES ORGANIZED

"It's the Economy, Stupid: or The Importance of Economic History" October, 2009, 320 Ranch, Big Sky, Montana. With Josh Ober, Stanford University.

"Deference in Early North America," at the McNeil Center for Early American Studies (University of Pennsylvania), December 11, 2004. With Simon Middleton.

"Class and Class Struggle in North America and the Atlantic World, 1500-1820." September, 2003. With Simon Middleton.

Current Research: Mapping America's First City

Curriculum Vitae

Brett L. Walker
September 2011

POSITIONS

- 2011-2012 Research Specialist and Visiting Professor, College of Science and Engineering and College of Liberal Arts, University of Minnesota, Minneapolis, MN
- 2008-Present Regents Professor, Board of Regents, Montana University System, MT
- 2006-2011 Chair, Department of History, Philosophy, and Religious Studies, Montana State University, Bozeman, MT
- 2007 Professor of History, Montana State University, Bozeman, MT
- 1998-99 Assistant Professor of History, Yale University, New Haven, CT

EDUCATION

- 1997 Ph.D. Japanese History, Department of History, University of Oregon, Eugene, OR
- 1995 Visiting Scholar, Faculty of Letters, Hokkaido University, Sapporo, Japan
- 1993 M.A. East Asian History, Department of History, Portland State University, Portland, OR
- 1989 B.A. History, The Albertson College of Idaho, Caldwell, ID

PUBLICATIONS

Books and book chapters:

- Ian Jared Miller, Julia Adeney Thomas, and Brett L. Walker, ed. *Japan at Nature's Horizon: Japan's Environmental Experiences from the Depths of the Oceans to the Heights of Mount Fuji* (Honolulu: University of Hawai'i Press, forthcoming).
- 2010 *Toxic Archipelago: A History of Industrial Disease in Japan*, foreword by William Cronon (Seattle: University of Washington Press, 2010; paperback reprint, 2011).
- 2010 「絶滅した日本のオオカミ—その歴史と生態」。北海道大学出版。2010年1月発行。
(Translation of *The Lost Wolves of Japan*.)
- 2007 「蝦夷地の征服 (1590-1800) – 日本の領土拡張にみる生態と文化」。北海道大学出版。
2007年4月発行。(Translation of *The Conquest of Ainu Lands*.)
- 2005 Gregory Pflugfelder and Brett L. Walker, ed. *JAPANimals: History and Culture in Japan's Animal Life* (Ann Arbor: Center for Japanese Studies, University of Michigan, 2005).
- 2005 *The Lost Wolves of Japan*, foreword by William Cronon (Seattle: University of Washington Press, 2005; paperback reprint, 2007).
- 2001 *The Conquest of Ainu Lands: Ecology and Culture in Japanese Expansion, 1590-1800* (Berkeley: University of California Press, 2001; paperback reprint, 2006).

Refereed articles:

- 2007 “Mamiya Rinzō and the Japanese Exploration of Sakhalin Island: Cartography, Ethnography, and Empire,” *Journal of Historical Geography* 33, no. 2 (April 2007): 283-313. This article was also posted with a new introduction on *Japan Focus* on February 3, 2008.
- 2007 “Sanemori's Revenge: Insects, Eco-System Accidents, and Policy Decisions in Japan's Environmental History,” *Journal of Policy History*, Special Issue: New Perspectives on Public Health Policy, James Mohr, Editor 19, no. 1 (2007): 113-44.
- 2004 “Meiji Modernization, Scientific Agriculture, and the Destruction of Japan's Hokkaido Wolf,” *Environmental History* 9, no. 2 (April 2004): 248-74.

- 2001 “Commercial Growth and Environmental Change in Early Modern Japan: Hachinohe’s Wild Boar Famine of 1749.” *Journal of Asian Studies* 60, no. 2 (Spring 2001):329-51.
- 1999 “The Early Modern Japanese State and Ainu Vaccinations: Redefining the Japanese Body Politic, 1799-1868.” *Past and Present* 163 (May 1999): 121-60.

GRANTS

- 2008 Co-Director, International Studies Title VI Grant, Department of Education.
Total direct costs: \$179,634.97
- 2007-10 Principal Investigator for “Technological Symmetry and Hybrid Environments at the Ashio and Anaconda Copper Mines.” NSF Social Studies of Science, Engineering, and Technology Grant for Collaborative Research submitted with Prof. Tim LeCain. Total direct costs: \$305,864.
- 2005 Coauthor of Japan Foundation Staff Expansion Grant, Department of Anthropology and Sociology, MSU (\$157,000).
- 1999-2001 Author of two successful Japan Foundation Library Supplement Grants, Category A2 and Category B2, for MSU Libraries, Bozeman. I also helped catalog these books (worth about \$21,580).
- 2000 Japan Foundation Research Grant, The Japan Foundation, Tokyo, Japan (\$24,000).
- 1995-1997 J. William Fulbright Graduate Research Fellowship, Japan-United States Educational Commission, Tokyo, Japan.

AWARDS AND HONORS

- 2011 George Perkins Marsh Prize for Best Book in Environmental History, American Society for Environmental History.
- 2007 Meritorious Research Award, College of Letters and Science, Montana State University, Bozeman, MT.
- 2006 Charles & Nora L. Wiley Faculty Award for Meritorious Research, Office of the Provost, Montana State University.
- 2005 Leopold-Hidy Award for best article published in journal *Environmental History*, American Society for Environmental History.

INVITED LECTURES

- 2011 “Toxic Archipelago: A History of Industrial Disease in Japan.” Lecture for East Asian Languages and Cultures Speaker Series, University of Illinois, IL; Center for Japanese Studies and East Asia Workshop on Gender and Society, University of Michigan, MI; Conversations in History Seminar Series, Boston University, MA; Lecture Series, University of London, UK; Lecture Series, Cambridge University, UK; Panel on Pollution, University of Virginia, VA; Keynote for Japan Studies Graduate Student Symposium, UCLA, CA; Keynote, Asian Environmental Studies Initiatives, Hobart and William Smith Colleges, NY.

College of Nursing

Nursing is an interdisciplinary and integrative field. Congruent with the land-grant mission of MSU, the *College of Nursing* has a research and teaching presence in communities around the state. Its faculty asks important questions about health and well-being, attends to physiological and social processes along with their interactions, and employs diverse methods including qualitative, quantitative, and community-based participatory research. Current projects focus on health disparities in underserved and rural communities (e.g., oral health, historical trauma); chronic illnesses, pain, and consequences of medical pathologies; complementary and alternative therapies and self-management of conditions; pregnancy and depression; environmental health (e.g., radon, asbestos; methyl-mercury); and end-of-life issues. The College of Nursing has a growing commitment to research with efforts led by an Associate Dean for Research and supported by an Office of Research.

Faculty who provided CVs:

Patricia Holkup

Sandra Kuntz

Laura Larsson

Dale Mayer

Linda Torma

BIOGRAPHICAL SKETCH

Provide the following information for the Senior/key personnel and other significant contributors.
Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME Patricia A. Holkup	POSITION TITLE Associate Professor		
eRA COMMONS USER NAME (credential, e.g., agency login) PHOLKUP			
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	MM/YY	FIELD OF STUDY
The College of Saint Teresa, Winona, MN	BSN	1971	Nursing
University of Montana, Missoula, MT	MA	1997	Guidance & Counseling
University of Iowa, Iowa City, IA	PhD	2003	Nursing
John A. Hartford Foundation Claire M. Fagin Fellowship	Postdoctoral Fellowship	2005-2007	Geriatric Nursing Research

Positions

Positions and Employment

1971-1973	Staff Nurse, Pediatrics and Neurology, Saint Mary's Hospital, Rochester, MN
1973	Staff Nurse, Belgian Medical Mission, Jocatan, Guatemala
1974	Staff Nurse, Pediatrics, Stanford University Hospital, Stanford, California
1974-1976	Clinical Instructor, Neurology & Gerontology, College of Saint Teresa, Winona, MN
1986-1988	Staff Nurse, Missoula Family Medical Center, Missoula, MT
1988-1990	Senior Advocate, ELDERPHONE, Missoula Aging Services, Missoula, MT
1998-1999	Teaching Assistant, The University of Iowa, College of Nursing, Iowa City, IA
1998-2000	Research Assistant, The University of Iowa, College of Nursing, Iowa City, IA
2003-2009	Assistant Professor, College of Nursing, Montana State University-Bozeman, MT
2009-present	Associate Professor, College of Nursing, Montana State University-Bozeman, MT

Other Experience and Professional Memberships:

1971-1985; 1997-present	American Nurses Association
1985-present	Montana Gerontological Society
1990-present	American Counseling Association
1998-1999	Midwest Nursing Research Society
1999-present	Sigma Theta Tau International, Gamma Chapter
2000-present	Sigma Theta Tau International, Zeta Upsilon Chapter
2003-present	Western Institute of Nursing
2003-present	American Psychiatric Nurses Association
2003-present	Northwest Coalition for Excellence in Geriatric Nursing Education
2003-present	Montana Geriatric Education Center
2004-present	Council for the Advancement of Nursing Science
2005-present	Gerontological Society of America

Selected Peer-reviewed Publications

1. **Holkup, P.A.**, Rodehorst, T.K.C., Wilhelm, S.L., Kuntz, S.W., Weinert, C., Stepan, M.B.F., Salois, E.M., Left Hand Bull, J., Hill, W.G. (2009). Research among Tribal Communities: Experiences from Four Academic Institutions. *Journal of Transcultural Nursing*, 20(2), 164-175.
2. **Holkup, P.A.**, Salois, E.M., Tripp-Reimer, T., and Weinert, C. (2007). Drawing on wisdom from the past: An elder abuse intervention with Tribal communities. *The Gerontologist*, 7(2), 248-254.

3. Salois, E.M., **Holkup, P.A.**, Tripp-Reimer, T., & Weinert, C. (2006). Research as spiritual covenant. *Western Journal of Nursing Research*, 28(5), 505-524.
4. **Holkup, P.A.**, Tripp-Reimer, T., Salois, E.M., & Weinert, C. (2004). Community based participatory research: An approach to intervention research with Native American communities. *Advances in Nursing Science*, 27(3), 162-175.
5. **Holkup, P.A.** (2003). Evidence-based protocol: Elderly suicide: Secondary prevention. *Journal of Gerontological Nursing*, 29(6), 6-17.
6. **Holkup, P.** (2002). Big changes in the Indian Health Service: Are nurses aware? *Journal of Transcultural Nursing*, 13(1), 47-53.
7. **Holkup, P.A.** (2002). Evidence-Based Protocol: Suicide in the Elderly: Assessment and Acute Management. In M.G. Titler (Series Ed.). *Series on Evidence-Based Practice for Older Adults*. The University of Iowa College of Nursing Gerontological Nursing Interventions Research Center, Research Dissemination Core.
8. Butcher, H., **Holkup, P.**, & Buckwalter, K. (2001). The experience of caring for a family member with Alzheimer's disease. *Western Journal of Nursing Research*, 23, 33-55.
9. Butcher, H., **Holkup, P.A.**, Park, M. & Maas, M. (2001). Thematic analysis of the experience of making a decision to place a family member with Alzheimer's disease in a special care unit. *Research in Nursing and Health*, (6), 470-480.
10. **Holkup, P.** (2001). The 20th century: Looking back at the ambiance of aging from the perspective of scientific journals and periodicals. *Journal of Gerontological Nursing*, 27(6), 38-46.
11. Schutte, D., Williams, J., **Holkup, P.**, Evers, C., Muilenberg, A. (2000). Psychosocial impact of predictive testing for Huntington Disease on support persons. *Neuropsychiatric Genetics*, 96(3), 353-359.
12. Williams, J., Schutte, D., Evers, C. & **Holkup, P.** (2000). Redefinition: Coping with negative results from predictive gene testing for degenerative neurologic disorders. *Research in Nursing and Health*, 23(4), 260-269.
13. **Holkup, P.** (1998). Our parents, our children, ourselves: A therapy group to facilitate understanding of intergenerational behavior patterns and to promote family healing. *Journal of Psychosocial Nursing and Mental Health Services*, 36(2), 20-26.

Research Support

Ongoing Research/Scholarly Support

P20 RR-16455-09 (NIH- NCRR) Harmsen (PI) 09/30/2009 – 09/29/2011

MT INBRE (*Sub-project: Historical Trauma and Unresolved Grief*)

The major goals of this sub-project are to: a) describe the experience of current grief among Blackfeet adults, b) explore the relationship of current grief to historical trauma, and c) pilot and evaluate a culturally anchored grief recovery intervention.

1D09HP15006-01-00 Holkup (Project Director) 07/01/2009 – 06/30/2012

HRSA

Family Psychiatric Mental Health Nurse Practitioner

The major goals of this project are to: a) make advanced psychiatric and mental health nursing education accessible to nurses throughout rural Montana; b) contribute to improved healthcare outcomes for underserved populations by active recruitment of graduate students from minority and disadvantaged backgrounds; and, c) help Montanans and others in sparsely populated areas of the region gain access to high-quality, psychiatric and mental health care.

Completed Research Support

Montana State University, College of Nursing Block Grant Holkup (PI) 02-/5/09 – 02/14/10

Native American Elder Abuse: Evaluating an Intervention

Primary goals: a) conduct evaluation interviews with former Family Care Conference (FCC) participants to describe the long term outcomes of the FCC, b) determine the feasibility of participants responding to the current draft of a responsive outcome measure to the FCC.

Role: Co-Investigator

John A. Hartford Foundation

Building Academic Geriatric Nursing Capacity

Scholarship Program

Holkup, (Postdoctoral Fellow)

07/01/05 – 06/30/07

Caring for Native American Elders: Expanding to the Grasslands

The major goals of this project, which was subsumed within the R03 described below, were to develop a research relationship with another Native American community, to gather background and contextual data about the perceived magnitude of elder abuse in that community, and to implement and evaluate up to three Family Care Conferences.

Role: Co-Investigator

NIH/NINR R03 NR09282-01

Holkup (PI)

09/01/05 – 08/31/07

Caring for Native American Elders: Grasslands

The major goals of this project, as above, were to establish a research relationship with another Native American community, to gather background and contextual data to determine the perceived magnitude of elder abuse in the community, to describe the forms it takes, to learn about the satisfaction with the current means of addressing elder abuse, to determine the feasibility of the Family Care Conference as a possible means of intervention in another tribal community, and to implement and evaluate up to three Family Care Conferences.

Role: Co-Investigator

NIH/NINR 1 R21 NR008528-01

Tripp-Reimer (PI)

09/15/03 – 09/14/05

Caring For Native American Elders: Phase III

The objective was to assess the feasibility and suitability of implementing an intervention, the Family Care Conference, for Native American elders living on a Montana reservation who are at risk for maltreatment. Three community members were hired and trained to facilitate Family Care Conferences over for two years.

Role: Co-Investigator

NIH/NINR (1P20NR07790-01), NIH/NINR (P30 NR003979) Tripp-Reimer (PI)

08/01/02 – 07/31/03

Caring for Native American Elders

Goals: a) to obtain background and contextual information upon which to base the development of the Family Care Conference Intervention for Tribal Elders who are at risk for abuse, b) to design, implement, and evaluate the feasibility of conducting the Family Care Conference intervention to address elder abuse.

Role: Co-Investigator

BIOGRAPHICAL SKETCH

NAME Kuntz, Sandra Wilson eRA COMMONS USER NAME SANDRAKUNTZ		POSITION TITLE Associate Professor, Community/Public Health Nursing Montana State University College of Nursing Robert Wood Johnson Foundation, Nurse Faculty Scholar	
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
California State University, Long Beach, CA	BSN	08/69	Nursing
Texas Women's University, Dallas, TX	MS	05/84	Community Health Nursing
Walden University, Minneapolis, MN	PhD	02/04	Community Health Services

A. Personal Statement

Three specific aims guide the current environmental health research. First, I am working in partnership with the Confederated Salish and Kootenai Tribes on the Flathead reservation and the Assiniboine and Sioux Tribes on the Fort Peck reservation through all stages of the research process using community-based participatory research methods. Our team includes community members, undergraduate students from Salish Kootenai and Fort Peck Tribal Colleges as well as Native American graduate students from Montana State University. Second, we are in the process of gathering and analyzing methylmercury risk/exposure data and fish advisory awareness from childbearing-age women who attend tribal WIC clinics on the two reservations. Finally, we are working with our community partners to determine effective and culturally appropriate risk communication methods. The primary goal of this research is to address high American Indian infant mortality and morbidity rates by reducing fetal/infant/child exposure to an environmental neurotoxin. Throughout my career, I have worked with Native American populations as a public health nurse, as nursing faculty at a tribal college, and now as a research partner with community members to discover culturally appropriate methods for addressing environmental health issues on the reservation.

B. Positions and Honors.

Positions and Employment

- 1969-1970 Public Health Nurse; Coordinator Child Health Clinic, San Juan Basin Health Unit, Durango, CO
- 1971-1974 School Nurse and Health Educator; Mesa Public Schools, Mesa, AZ
- 1974-1975 Emergency Room Staff Nurse, Parkland Hospital ED, Dallas, TX
- 1975-1976 Home Health Nurse, Home Health Services, Dallas, TX
- 1976-1977 Coordinator, Urban Indian Clinic, Home Visit Program, and Grant Writer; Dallas Inter-Tribal Center, Dallas, TX
- 1977-1978 Staff Nurse Recovery Room and Outpatient Clinics; Arthritis Clinics Exercise for Children Project Scottish Rite Hospital, Dallas, TX
- 1982-1983 Emergency Room Nurse, Garland Community Hospital, Garland, TX
- 1983-1989 Film Producer (including children with disabilities), Kuntz Bros., Inc, Dallas, TX
- 1989-1991 Clinical Instructor/Same Day Surgery Nurse, Baylor Hospital, Dallas, TX
- 1991-2002 Faculty/Curriculum Development ASN/RN-BSN Program, Salish Kootenai College, Pablo, MT
- 2002-present Associate Professor, College of Nursing, Montana State University-Bozeman, MT

Clinical Nurse Specialist Advanced Practice Certification

Community/Public Health Nursing ANCC #2006008322 (1-2-2007 to 1-1-2012)

Other Experience and Professional Memberships

- 2011 Expert Testimony: Stop Mercury and Air Toxics Now (EPA Docket #EPA-HQ-OAR-2009-0234)
- 2008 Scientific Reviewer, Special Emphasis Panel 2 for RFA-TP-08-001 (P01) Centers for Disease Control and Prevention, Coordinating Office for Terrorism Preparedness and Emergency Response
- 2003-2010 Vice Chair, Missoula City County Health Department, Board of Health
- 2003-2010 Maternal Child Health Advisory Committee, Missoula Board of Health Representative
- 2003-2009 Montana Turning Point Workforce Development, Advisory Committee Member

Honors

- 1990 Baylor University Medical Center Clinical Nursing Excellence Award

- 1995 Salish Kootenai College Award for Teaching Excellence
- 1999 Americorps, Montana Campus Compact Faculty Fellow (Community Service Learning)
- 2001 Montana Public Health Association Exemplary Service Award for Promotion of Public Health Nursing Education to American Indian Students at Salish Kootenai College
- 2001 National Public Service Fellowship, Walden University
- 2004 Sigma Theta Tau International, Zeta Upsilon Chapter, Dissertation Award
- 2005 Association of State and Territorial Health Officials (ASTHO) Vision Award for Category B (Programs with budgets under \$250,000) Montana Department of Public Health and Human Services *Montana Public Health Emergency Preparedness: A Report Card*, (Kuntz, Smilie, Wang).
- 2007 Montana State University Provost's Award for Undergraduate Research/Creativity Mentoring (Nominated)
- 2007 Environmental Health Nurse Luminary Award <http://www.theluminaryproject.org/story.php>
- 2007 Clinical Research Development Program 2007-2008 (Awarded)
- 2008 Montana State University Provost's Award for Undergraduate Research/Creativity Mentoring Award
- 2008 NIH/NCMHD NIH National Center for Minority Health and Health Disparities, Loan Repayment Program (Awarded: 2008-2010). Clarann Weinert (Mentor)

C. Selected peer-reviewed publications (in chronological order).

Christopher, S., Saha, R., Lachapelle, P., Jennings, D., Colclough, Y., Cooper, C., Cummins, C., Eggers, M., FourStar, K., Harris, K., Kuntz, S., LaFromboise, V., LaVeaux, D., McDonald, T. Real Bird, J., Rink, E., Webster, C. (2011). Applying Indigenous CBPR principles to partnership development in health disparities research. *Family & Community Health*, 34(3), 246-255.

Weinert, C., Hill, W., Winters, C., Kuntz, S., Black, B., et al., (2011). Psychosocial health status of persons seeking treatment for exposure to Libby amphibole asbestos, *International Scholarly Research Network**, 1-11. DOI:10.5402/2011/735936.

Hill, W. G., Butterfield, P., & Kuntz, S. W. (2010). Barriers and facilitators to the incorporation of environmental health into public health nursing practice. *Public Health Nursing*, 27(2), 122-130. DOI: 10.1111/j.1525-1446.2010.00835.x

Kuntz, S. W., Ricco, J. A., Hill W. G., and Anderko, L. (2010). Communicating methylmercury risks and fish consumption benefits to vulnerable childbearing populations. *Journal of Gynecologic, Obstetric, and Neonatal Nursing*, 39, 118-126. DOI: 10.1111/j.1552-6909.2009.01094.x

Kuntz, S., Hill, W., Linkenbach, J., Lande, G., Larsson, L. (2009). Methylmercury risk and awareness among American Indian women of childbearing age living on an inland northwest reservation. *Environmental Research*, 109, pp. 753-759.

Kuntz, S., Winters, C., Hill, W., Weinert, C., Rowse, K., Hernandez, T., & Black, B. (2009). Rural public health policy models to address an evolving environmental asbestos disaster. *Public Health Nursing*, 26(1), pp. 70-78.

Holkup, P., Rodehorst, K., Wilhelm, S., **Kuntz, S.**, Weinert, C., Stepan, M., Salois, E., & Hill, W. (2009). Negotiating three worlds: Academia, nursing science, and tribal communities. *Journal of Transcultural Nursing*, 20(2), pp. 164-175.

Kuntz, S., Smilie, J., Reynolds, M. (2006). Emergency preparedness challenges and rewards: A rural/frontier public health perspective. In H. Lee & C. Winters (Eds.), *Conceptual basis for rural nursing* (2nd ed.). New York: Springer Publishing.

Kuntz, S., Smilie, J., & Wang, J. (2005). How ready are we? Measuring Montana's statewide public health preparedness. *Northwest Public Health*, 22(2), pp. 6-7.

D. Research Support.

- 2009 Robert Wood Johnson Foundation Nurse Faculty Scholar. (2009-2012). Methylmercury Risk, Awareness, and Exposure: Fort Peck Community-Academic Partnership. This study investigates fish consumption patterns, fish advisory awareness, risk communication preferences, and actual methylmercury exposure among American Indian childbearing women. Role: PI

- 2009 1P20MD002317-01 NIH/National Center on Minority Health and Health Disparities. Center for Native Health Partnerships—Pilot Grant. Phase II Health Care Provider Initiative: Recognition and Prevention of Pediatric Exposure to Environmental Toxins. This project provides pediatric environmental health education and engages healthcare providers in the identification and prioritization of potential hazards to the fetus, infant, and child. Role: PI
- 2009 2P20RR16455 IDeA Network of Biomedical Research Excellence (INBRE). Methylmercury Risk, Awareness, & Exposure: A Tribal Community-Academic Partnership (Flathead Reservation). This project determines risk awareness and actual exposure in American Indian women. Role: PI
- 2008 1P20MD002317-01 NIH/National Center on Minority Health and Health Disparities. Center for Native Health Partnerships—Pilot Grant: Community/Public Health Nurse Initiative: Recognition and Prevention of Pediatric Exposure to Environmental Toxins. The purpose of this project is to organize an environmental education conference using a community based participatory approach. Role: PI
- 2007 1R03NR011241 Exploring Research Communication and Engagement in a Rural Community: The Libby Partnership Initiative. The purpose of this project is to improve research communication and dissemination in a rural community impacted by exposure to Libby asbestos. Role: Co-PI
- 2007 1P20MD002317-01 Consortium for Community-Based Research in Native American Health Pilot project funding to establish a community based participatory research environmental health advisory group with the Confederated Salish and Kootenai Tribes. Role: PI
- 2005 NIH/NINR 1P20NR07790-0, Center for Research on Chronic Health Conditions in Rural Dwellers Methylmercury Risk and Awareness in American Indian Women of Childbearing Age. Project Goals: Determine fish consumption patterns, fish advisory awareness, biomonitoring preferences and risk communication preferences among American Indian women and clients of a tribal WIC program. Role: PI

BIOGRAPHICAL SKETCH			
NAME Laura S. Larsson		POSITION TITLE	
eRA COMMONS USER NAME LLARSSON		Assistant Professor	
EDUCATION/TRAINING			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
Lewis and Clark College, Portland, OR	B.S.	1989-1993	Natural Science
Montana State University, Bozeman, MT	B.S.	1998-2001	Nursing
Oregon Health & Science University, Portland, OR	MPH	2002-2005	Public Health
Oregon Health & Science University, Portland, OR	Ph.D.	2003-2008	Nursing

A. Personal Statement

My research experience demonstrates my commitment to improving health for vulnerable groups.

B. Positions

Positions and Employment

1993 – 1998: Environmental Chemist, CH2MHill Engineering, Corvallis, OR

October 2001 – May 2005: Registered Nurse, Swingle Student Health Center, Bozeman, MT

August 2002 – March 2004: Registered Nurse, Gallatin Community Clinic, Bozeman, MT

September 2002 – May 2007: Adjunct Instructor, Caring for Our Own Program, Montana State University

September 2005 – May 2008: Adjunct Assistant Professor, Montana State University College of Nursing

August 2008 – Present: Assistant Professor, Montana State University College of Nursing, Bozeman, MT

C. Selected peer-reviewed publications (in chronological order).

Larsson, L., & Zulkowski, K., (2002). Scope of practice and education requirement differences between nurse practitioners and physician assistants in Montana. Journal of the American Academy of Nurse Practitioners, 14(4), 185-190. (PMID: 12001750)

Larsson, L., & Butterfield, P.G. (2002). Mapping the future of environmental health and nursing: Strategies for integrating national competencies into nursing practice. Public Health Nursing, 19(4), 301-308. (PMID: 12071904)

Hill, W., Butterfield, P., & **Larsson, L.** (2006). Rural parents' perceptions of risks associated with their children's exposure to radon. Public Health Nursing, 23(5), 392-399. (PMID: 16961559)

Larsson, L., Butterfield, P., Christopher, S., & Hill, W. (2006). Rural community leaders' perceptions of environmental health risks: Improving community health. American Association of Occupational Health Nurses, 54(3), 105-112. (PMID: 16562621)

Larsson, L., Hill, W., Odom-Maryon, T., & Yu, P. (2009). Householder Status and Residence Type as Correlates of Radon Knowledge and Testing Behaviors. Public Health Nursing. 26(5) 387-395. (PMC Journal – In Process)

Kuntz, S.W., Hill, W.G., Linkenbach, J.W., Lande, G., & **Larsson, L.** (2009). Methylmercury risk and awareness among American Indian Women of Childbearing age living on an inland northwest reservation. Environmental Research, 109(6), 753-759. (PMID: 19477438)

Larsson, L. (in press). A Response to: Deadly Radon in Montana? Dose Response.

White, M., & **Larsson, L.** (in-press). Exploring Scope of Practice Issues for Correctional Facility Nurses in Montana. Journal of Correctional Health Care.

D. Research Support

Ongoing Research Support

Larsson (PI) 5/1/11 – 4/31/14

Funding Source: Montana INBRE (NIH-NCRR)

Title: Radon Risk Communication for Native Health

This study is a community-based participatory research project (CBPR) in collaboration with the allied health students at Blackfeet Community College. The research aims are to create a culturally-relevant radon animation for use with a digital signage display at the Women Infant and Children (WIC) clinics in Browning and Heart Butte Montana; both towns on the Blackfeet Reservation. The project is an opportunity for me to use a CBPR approach in conducting research with an underserved population as well as to test a contemporary delivery system for health promotion messages with WIC clients. I am working with Blackfeet Community College faculty in a cross-institutional research and education collaboration.

Larsson (PI) 9/1/10 – 8/31/13

Funding Source: Robert Wood Johnson Foundation Nurse Faculty Scholars Program

Title: Montana Radon Study

This study is a community-based experiment comparing radon testing program participation between intervention, control, and sham-control sites. The research aims are to test the efficacy of an education intervention delivered in the Women Infant and Children waiting-room via digital signage technology for increasing radon-knowledge scores among WIC clients. In addition to developing an operational research project, this grant has also provided me with tremendous leadership and mentorship opportunities. I am working with three mentors and attending local, regional, and national conferences related to achieving excellence in both research and teaching.

CURRICULUM VITAE

Name: Mayer, Dorothy M "Dale" **Date of Appointment:** August, 1997
Campus: Missoula **Rank:** Assistant Professor
Certification: ANCC - CNS/Adult Health **Tenure:** on a Tenure Tract

Education**Major Area of Study**

<u>Degrees</u>	<u>Institution</u>	<u>Clinical</u>	<u>Functional</u>
PhD	Oregon Health & Science University	Doctoral nursing program	Family Focus
MS	University of California, San Francisco, CA	Cardiovascular Nursing	Clinical Specialist
BSN	University of Mary Hardin Baylor - Belton, TX	Nursing	Generalist

Teaching Responsibility

2011 and 2010

<u>Course #</u>	<u>Course Name</u>	<u>Content Focus</u>	<u>Theory/Clinical</u>
NRS 387R	Research in Health Care	Research/Evidence Based Practice	Theory & Lab
NRS 501	Teaching Concepts for Nursing Educators	Graduate Teaching	Theory
NRS 487	Leadership/Management	Care of Caregiver	Guest lecture
NRS 342 NRS 342	Psychosocial Concepts Psychosocial Concepts	Grief and Bereavement Debriefing session	Guest Lecture Lab

Major Activities to Maintain Expertise (last 2 years)

Continuing Education:

January 2011	Fibromyalgia in Older Adults: The Influence of Resilience	Friday Morning Medical Conference St Patrick Hospital Missoula MT
Nov 2010	Evidence Based Practice Conference	St Patrick Hospital Missoula MT

October 2010	Spiritual and Palliative Care Conference	St Patrick Hospital Missoula MT
June 2010	Comparing three life limiting illnesses: Does diagnosis matter or is sick sick?	St Patrick Hospital Missoula MT
April 2010	2010 Grief Institute The heart of grief: Theory and practice revisited	Tamarack Grief Resource Center Missoula Montana
April 2010	43 th Annual Communicating Nursing Research Conference	Western Institute of Nursing Glendale Arizona
April 2010	How your own Personal Bias Influences Healthcare Outcomes	St Patrick Hospital Institute of Medicine & Humanities
March 2010	Battle Spring Fever with Social Media and Web 2.0	Tim Bristol, PhD, RN, CNE Elsevier Faculty development and Training Webinar
Mar 2010	Building Research Competence In Nursing through Mentoring	Sigma Theta Tau International Online Continuing Education
Mar 2010	Providing Excellent Palliative Care	Sigma Theta Tau International Online Continuing Education
Feb 2010	Nursing Journal Club	St Patrick Hospital
Sep 2009	New Theories of Grief: Going beyond Kubler-Ross	Association for Death Education and Counseling Webinar Missoula, MT

OHSU doctoral candidate - successfully defended my dissertation Dec 2009. Title of dissertation: Family Bereavement Experiences after Sudden Cardiac Death. PhD degree granted March 2010

Maintained ANCC certification as an **Adult Health Clinical Nurse Specialist**

**MONTANA STATE UNIVERSITY
COLLEGE OF NURSING
Academic Vita**

Name: Linda Torma, PhD, APRN, GCNS-BC

Title: Assistant Professor

Address: 314 Connell Avenue, Missoula, MT

Date of Appointment to MSU: 08/15/1999

MT RN Licensure No.: RN 0011779

Date of Current Rank: 08/15/2010

Clinical Nursing Specialties:
Community Health, Gerontological Nursing (CNS)

Certification: Clinical Specialist in Gerontological Nursing
1993-2014, #0213900

Professional Education:

<u>Degree</u>	<u>Institution</u>	<u>Year</u>	<u>Major</u>
PhD	Oregon Health & Science University	2010	PhD Nursing
MSN	University of New Mexico	1992	Community Health Nursing & Gerontological Nursing
BA	University of Montana	1987	Liberal Studies
AD	Metropolitan Comm. College	1974	Nursing

Teaching Experience:

<u>Dates</u>	<u>Organization</u>	<u>Position</u>
2010-present	Montana State University	Assistant Professor
1999-2010	Montana State University	Adjunct Assistant Professor
1993-99	Montana State University	Affiliate Assistant Professor
1992-93	Salish Kootenai College	Nursing Faculty
1991-92	University of New Mexico	Teaching Assistant

Courses

N506, Management of the Care Environment; N582, Clinical Nurse Specialist II; N522, Advanced Practice Nursing: Roles & Issues; N477, Population-Based Nursing; N444, Care Management; N445, Care Management II; N479, Community Health Nursing; N340, Physiological Nursing Concepts; N377, Introduction to Community-Based Nursing; N330, Care of the Aging Adult; N228, Nursing Process; N222, Fundamentals of Nursing

Professional Experience:

<u>Dates</u>	<u>Organization</u>	<u>Position</u>
2009-2012	Comprehensive Geriatric Education Program	Project Consultant
2008	Partnership Health Center	Geriatric Assessment Clinic, CNS
2005-2007	Partners in Home Care	Clinical Nurse Specialist
2000-2003	Hunters Glen Assisted Living	Quality Management Consultant
1996-2000	Missoula Demonstration Project	Clinical Educator/Project Director Community-wide Pain Improvement Project
1993-96	Saint Patrick Hospital	Geriatric Clinical Nurse Specialist
1983-90	Community Medical Center	Staff Nurse/Certified Rehabilitation RN
1979-80	Mineral County Health Department	County Health Nurse
1978-83	Mineral County Hospital	Staff Nurse/On Call Nurse
1976	The Visiting Nurse Service	Home Health Nurse
1975-76	The Genessee Hospital	Staff Nurse, Orthopedics
1974-75	Mount Sinai Hospital	Staff Nurse, Surgical Ward

Selected Scholarly Presentations:

<u>Dates</u>	<u>Title</u>	<u>Organization/Location</u>
2011	Improving Direct Admission Flow in the ED	Zeta Upsilon Research Meeting, Missoula, MT
2011	Fibromyalgia in Older Adults	Western Institute of Nursing, Las Vegas, NV
2010	FM Pain and Physical Function: The Influence of Resilience Poster and Podium Presentations	International Myopain Society, Toledo, Spain
2007	Conceptualizing the Influence of Resilience on Pain/Physical Function	Western Institute of Nursing, Portland, OR
2007	Pain and Physical Function: The Influence of Resilience	Touchmark Foundation, Portland, OR
2006	Symptoms as Predictors of Physical Function (poster)	Western Institute of Nsg, Albuquerque, NM
2006	Heart Failure and Home Health Care	National Association of Clinical Nurse Specialists, Salt Lake City, UT

Selected Scholarly Presentations (cont):

<u>Dates</u>	<u>Title</u>	
2002	Symptom Management of Persons Receiving End-of-Life Care in Clinical Facilities	16 th Annual WIN Assembly, Palm Springs, CA
2001	Speaking the Language of Pain	MSU CON Research Day, Bozeman, MT
2000	Pain-The Fifth Vital Sign	Montana Nurses Association, Bozeman, MT
1998	Monitoring the Quality of Care at the End of Life	Saint Patrick Hospital Institute of Medicine
1992	Assessing Critical Thinking Outcomes of Nursing Education	University of New Mexico, Albuquerque, NM

Publications:

- Reviewer: Tabloski, P. A. (2009). *Gerontological nursing: The essential guide to clinical practice (2nd Edition)*. Upper Saddle River, NJ: Pearson Prentice Hall.
- Reviewer: Coyne, P.J. & Drew, D.J. (2002). Palliative care. In B. St. Marie (Ed.), *Core curriculum for pain management nursing* (pp. 439-470). Philadelphia: Saunders.
- Torma, L. (2001). Improving pain management in community health care settings: The role of the advanced practice nurse. *Home Health Care Management and Practice*, 13 (5), pp. 386-99.
- Mayer, D, Torma, L, Norris, K., Byock, I. (2001). Speaking the language of pain, *American Journal of Nursing*, 101 (2), pp. 44-49.
- Torma, L. (1999). Pain: The fifth vital sign, *MNA Pulse*, Spring, 1999.
- Torma, L. (2000). Pain management essential to quality health care. *Billings Gazette*, October 11, 2000; *Anaconda Leader*, October 27, 2000.
- Pain: The Fifth Vital Sign Study Final Report*, Mayday Fund, 2000.

Research Creative Activities:

<u>Year</u>	<u>Title</u>	
2011-2012	Development of N506/EIND 506 a joint nursing and engineering graduate course, HRSA Grant # D09HP08335	
2009-2012	Comprehensive Geriatric Education Program Consultant, HRSA Grant # D62HP15060	
2011	Certification from The Dartmouth Institute Microsystem Academy, Dartmouth University	
2010-2011	Montana State University College of Nursing Block Grant: The Lived Experience of Fibromyalgia in Resilient Older Adults.	
2009-2010	Dissertation: Pain and Physical Function in Older Adults living with Fibromyalgia: The Influence of Resilience	
2006	Business Plan: <i>Healthy Aging at Home: A Care Management Program for Frail Elders</i> , Partners in Home Care, Missoula, MT	
2005-present	Research assistant, data collection and management for the Energy Balance Study, OHSU School of Nursing, Kerri Winters-Stone, PI	
2004	Research Practicum: Preliminary analysis of Lifestyle, Aging, and Health Survey, Missoula, MT, Craig Ravesloot, PI, Lois Miller, practicum supervisor	
1996-2000	Pain: The Fifth Vital Sign Study, Missoula Demonstration Project, Missoula, MT	
1996-97	Missoula Community Profile: Part I (Pilot study of end-of-life clinical experience of patients and their families, 1997), Missoula Demonstration Project, Missoula, MT	

Honors, Awards, Grants, Fellowships:

<u>Year</u>	<u>Title</u>	
2010-2011	The Lived Experience of Fibromyalgia in Resilient Older Adults	MSU College of Nursing Block Grant (\$20,000)
2010	New Doctorate Award	Zeta Upsilon Chapter of Sigma Theta Tau, International, Bozeman, MT
2009	Dean's Dissertation Research Award	OHSU School of Nursing (\$2,500)
2006	Zeta Upsilon Research Grant	Zeta Upsilon Chapter of STTI (\$1,250)
2006	Touchmark Foundation Scholar	Touchmark Foundation (\$1,000)
2002	Blitz Scholarship	OHSU Doctoral Nursing Program (\$6,000)
1999-2000	Improving Pain Management in Community Settings	Knoll Pharmaceuticals (\$16,000) Purdue Pharma (\$2,000)
1996-99	Pain: The Fifth Vital Sign	Mayday Fund (\$150,000)
1992-present	Phi Kappa Phi National Honor Society	Induction as Member
1992-present	Sigma Theta Tau National Nursing Honor Society	Induction as Member
1992	Academic Excellence Award	University of New Mexico
1990	Federal Nurse Traineeship	University of New Mexico
1983-87	Dean's List	University of Montana

Department of Political Science

The research program of the faculty of the *Department of Political Science* addresses diverse issues facing the individual; local, state, and national governments; and international regimes. These research efforts are unified by a common goal of illuminating the key challenges of making decisions for the common good, whether these decisions are for local governments or the World Trade Organization. The Department is currently focused on bringing the research skills and interests of its diverse and small faculty together to create a Project for Sustainable Democracy. Individual faculty interests include democratic governance and participatory politics; the political economy of the New West and tourism; community planning and health; American politics, Congress, the legislative process, and elections; contemporary political theory and virtue ethics; international relations and human rights; public policy and environmental decision making; and agricultural policy and international trade. The faculty is research active and has a history of award winning publications, public outreach and some, but uneven, grant funding. We have an undergraduate program in political science and a masters program in Public Administration.

Faculty who provided CVs:

Paul Lachapelle
Liz Shanahan
Linda Young

PAUL R. LACHAPELLE

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 Department of Political Science
 Wilson Hall 2-117
 Bozeman, MT 59717

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 paul.lachapelle@montana.edu
 msuextension.org/cd/paul

EDUCATION

Ph.D., Forestry, University of Montana, 2006
M.S., Resource Conservation, University of Montana, 2000
B.S., (Honors) Environmental Studies, University of Vermont, 1997

PROFESSIONAL EXPERIENCE

Assistant Professor, Extension Community Development Specialist, Community Development Program Leader, Montana State University, Department of Political Science, Bozeman, MT (Dec. 2006 to present) Develop educational programs that assist rural communities with understanding linkages between local government capacity, the local economy and local social capacity;

PUBLICATIONS**Journal Articles**

- Lachapelle, P.R.**, T. Dunnagan, and J. Real Bird. 2011. Applying innovative approaches to address health disparities in native populations: An assessment of the Crow Men's Health Project. *Community Development: Journal of the Community Development Society*. 42(2):240-254.
- Lachapelle, P.R.** 2011. The use of social networking in community development. *CD Practice*. 17(1):1-8.
- Lachapelle, P.R.** 2011. Leadership and civic engagement outcomes from Horizons: Understanding the potential for increased citizenship. *Montana Policy Review*. 15(1):17-21.
- Lachapelle, P.R.**, M. Emery, and R.L. Hays. 2010. The pedagogy and practice of community visioning: Evaluating effective community strategic planning in rural Montana. *Community Development: Journal of the Community Development Society*. 41(2):176-191.
- Lachapelle, P.R.** and E.A. Shanahan. 2010. The pedagogy of citizen participation in local government: Designing and implementing effective board training programs for municipalities and counties. *Journal of Public Affairs Education*. 16(3):401-419.
- Lachapelle, P.R.**, E. Austin, and D. Clark. 2010. Community strategic visioning as a method to address poverty: An analysis from select rural Montana communities. *Journal of Extension*. [Online], 48(1) Article 1FEA1. Available at: <http://www.joe.org/joe/2010february/a1.php>
- Lachapelle, P.R.** 2008. A sense of ownership in community development: Understanding the potential for participation in community planning efforts. *Community Development: Journal of the Community Development Society*. 39(2):52-59.
- Lachapelle, P.R.** and S.F. McCool. 2007. Claiming 'ownership': A response to Manning and Ginger. *Society and Natural Resources*. 20(2):193-198.

Books

Weaver, K. L. and **P.R. Lachapelle**. 2010. *Governing Montana at the Grass Roots: Local Government Structure, Process and Politics* (3rd ed.). Bozeman, MT: MSU Extension. 333 pages.

Book Chapters

Lachapelle, P.R. (In review) Community participation. In: Alex C. Michalos (Ed.) *Encyclopedia of Quality of Life Research*. New York: Springer Publishing.

- Lachapelle, P.R.**, M. Emery, and C. French. (In press) A framework for teaching and implementing community visioning. In: N. Walzer (ed.). *Community Visioning: Issues and Outcomes. Community Development Research and Practice Series*. New York: Routledge.
- French, C. and **P.R. Lachapelle**. (In press) Assessing intangible versus tangible outcomes from community visioning. In: N. Walzer (ed.). *Community Visioning: Issues and Outcomes. Community Development Research and Practice Series*. New York: Routledge.
- Lachapelle, P.R.** 2010. Citizen participation and interaction. In: K. Weaver (ed.). *Montana Municipal Officials Handbook*. (pp. 175-182) Bozeman, MT: MSU Extension.
- Lachapelle, P.R.** 2009. Stacking the deck. In: Menzel, D. (Ed.) *Ethics Moments in Government: Cases and Controversies*. (pp. 204-206) New York: Taylor and Francis.

GRANTS FUNDED

- U.S. Department of Agriculture, National Institute of Food and Agriculture, Agriculture and Food Research Initiative (Co-PI; \$742,907)* 2011, Reducing tillage in organic crop systems: ecological and economic impacts of targeted sheep grazing on cover crops and weed management, soil health and stability, carbon sequestration and greenhouse gas emissions (PI: Pat Hatfield, Montana State University)
- Northwest Area Foundation (PI; \$65,000)* 2010, Support for follow-up work with the Horizons Alumni Communities; to continue to implement programs and monitor progress on community poverty reduction strategies/plans.
- Montana State University Center for Native Health Partnerships (PI; \$10,000)* 2009, Research program on the Crow Reservation to address men's health and wellness; Sub-contract of National Institutes of Health, National Center on Minority Health and Health Disparities.
- Northwest Area Foundation (PI; \$45,000)* 2009, Horizons Pilot and Horizons II Alumni Communities; to monitor progress on program outcomes and community poverty reduction strategies/plans.
- Yellowstone National Park (PI; \$29,958)* 2009, Public Engagement Plan and Cooperative Agency; to support work for Yellowstone and Grand Teton National Parks' winter use Environmental Impact Statement and Rulemaking.
- Montana State University Center for Native Health Partnerships (PI; \$29,000)* 2008. Pilot project grant for research on the Crow Reservation to address men's health and wellness; Sub-contract of National Institutes of Health, National Center on Minority Health and Health Disparities.

HONORS / AWARDS

- Donald W. Littrell New Professional Award*, Community Development Society; In recognition of a superior contribution to the field of community development and the Society (2011)
- Provost's Excellence in Outreach Award*, Montana State University; Recognizing the impact of outreach efforts within the state (2010)
- Educational Technology Award*, National Association of Community Development Extension Professionals (2009)

PROFESSIONAL ASSOCIATION MEMBERSHIPS

- President, Montana Association of Community Development Extension Professionals (MACDEP)
- Member, Editorial Board, *Community Development: Journal of the Community Development Society*
- Member, Board of Directors, Community Development Society (CDS)
- Member, International Association for Community Development (IACD)
- Member, National Association of Community Development Extension Professionals (NACDEP)

Elizabeth A. Shanahan

Montana State University
Department of Political Science
Wilson Hall 2-143
Bozeman, MT 59717

(o) 406.994.5167
(fax) 406.994.6692
shanahan@montana.edu

EDUCATION

Doctor of Arts, Political Science	Idaho State University, 2005
Master of Public Administration, Public Policy	Idaho State University, 2004
Master of Counseling, Community Counseling	Idaho State University, 1994
Bachelor of Arts, Comparative Literature	Dartmouth College, 1986

ACADEMIC POSITIONS

Associate Professor	October 2011-present
Montana State University, Department of Political Science, Bozeman, MT	
Assistant Professor	2005- 2011
Montana State University, Department of Political Science, Bozeman, MT	
Doctoral Fellow	2002-2005
Idaho State University, Department of Political Science, Pocatello, ID	
Instructor, First Year Seminar	1996-2002
Idaho State University, College of Arts and Sciences, Pocatello, ID	

RESEARCH

Publications in Refereed Journals

- Shanahan, E.A., Jones, M.D., and McBeth, M.K. (2011). Policy Narratives and Policy Processes. *Policy Studies Journal*, 39(3), 535-561.
- Shanahan, E.A., McBeth, M.K., & Hathaway, P.L. (2011). Narrative policy framework: The influence of media policy narratives on public opinion. *Policy & Politics*, 39(3), 373-400.
- McBeth, M.K., Shanahan, E.A., Anderson, M., & Rose, B. (2011). Policy story or gory story: Narrative policy framework analysis of Buffalo Field Campaign's YouTube videos. *Policy and Internet*, forthcoming.
- Rossmann, D. & Shanahan, E.A. (2011). Defining and achieving normative democratic values in participatory budgeting processes. *Public Administration Review*, forthcoming.
- Shanahan, E.A. (2010). Open space ballot initiatives in the American West: A new west--old west phenomenon? *Studies in Sociology of Science*, 1(1), 22-35.
- McBeth, M.K., Shanahan, E.A., Tigert, L.E., Hathaway, P.L., & Sampson, L.J. (2010). Buffalo tales: Interest group policy stories and tactics in greater Yellowstone. *Policy Sciences*, 43(4), 391-409.
- Shanahan, E.A., McBeth, M.K., Tigert, L.E., & Hathaway, P.L. (2010). From protests to litigation to YouTube: A longitudinal case study of strategic lobby tactic choice for the Buffalo Field Campaign. *Social Science Journal*, 47(1), 137-150.
- Lachapelle, P.R. & Shanahan, E.A. (2010). The pedagogy of citizen participation in local government: Designing and implementing effective board training programs for municipalities and counties. *Journal of Public Affairs and Education*, 6(3), 401-419.
- Shanahan, E.A., McBeth, M.K., Hathaway, P.L., & Arnell, R.J. (2008). Conduit or contributor? The role of media in policy change theory. *Policy Sciences*, 41(2), 115-138.
- McBeth, M.K., Shanahan, E.A., Arnell, R.J., & Hathaway, P.L. (2007). The intersection of narrative policy analysis and policy change theory. *Policy Studies Journal*, 35(1), 87-108.
- McBeth, M.K. & Shanahan, E.A. (2005). Public opinion for sale: The role of policy marketers in greater Yellowstone policy conflict. *Policy Sciences*, 37(3/4), 319-338.
- McBeth, M.K., Shanahan, E.A., & Jones, M.D. (2005). The science of storytelling: Measuring policy beliefs in greater Yellowstone. *Society and Natural Resources*, 18(5), 413-429.

Elizabeth A. Shanahan—Curriculum Vitae for SBE

Non-Refereed Publications

- Shanahan, E.A. & McBeth, M.K. (2010). The science of storytelling: Policy marketing and wicked problems in the greater Yellowstone ecosystem. In J.D. Johnson (Ed.), *Knowing Yellowstone: Science in the Nation's First National Park* (pp. 140-159). Boulder, CO: Taylor Trade.
- Jackson-Smith, D., Marquart-Pyatt, S., Harris, C., Lovcraft, A. Shanahan, E.A., & Wanschneider, P. (2007). Research needs assessment for water resources management. *Report for Inland Northwest Research Alliance*.

Manuscripts and Book in Preparation

- Shanahan, E.A., Jones, M.D., & McBeth, M.K. Blowing in the Wind: Differences in Strategic Construction of Policy Narratives Between and Within Coalitions in Cape Cod's Wind Energy Issue.
- McBeth, M.K., Shanahan, E.A., & Jones, M.D. *Narrative Policy Framework*. Target publisher: Lynne Reiner.
- Hari, A., Shanahan, E.A., & Rossmann, D. The relationship between PART scores and Budgetary Decisions. Target journal: *Public Administration Review*. [student project]
- Sletten, J. and E.A. Shanahan. Knowledge and attitudes regarding aquatic nuisance species and management practices. [student project]

GRANTS

External

- National Science Foundation*, Dynamics of Coupled Natural and Human Systems, 2011. With Dr. A. Hansen, Dr. M. Brody, Dr. D. Robinson, and Dr. K. Suding. To be submitted.
- National Science Foundation*, Dynamics of Coupled Natural and Human Systems, 2009, 2010. With Dr. A. Hansen, Dr. M. Brody, Dr. D. Robinson, and Dr. K. Suding. Not funded.
- National Science Foundation*, 2008. Faculty Early Career Development Program. Not funded.
- Inland Northwest Research Alliance*, Grant. Summer 2006. Awarded \$15,240.

TEACHING

- | | |
|--|---|
| Public Policy Analysis (undergraduate) | Foundations of Public Admin (graduate) |
| Environmental Politics (undergraduate) | Research Methods (graduate) |
| Applied Statistics/Political Analysis (undergraduate) | Public Finance and Budgeting (graduate) |
| Introduction to American Government (undergraduate, online delivery) | |

SERVICE

Professional

- Reviewer for *Policy Sciences*, *Policy Studies Journal*, *American Journal of Political Science*, *Social Science Journal*, *Politics and Policy* and *Journal of Public Administration and Education* (2008-to present).
- Discussant for Western Political Science Association for public administration and environmental politics panels (2009, 2010).
- Co-facilitator for the Environmental Political Theory conference at the Western Political Science Association Conference (2009).

Montana State University

- Social Science Research Team for MSU's NSF ADVANCE-IT proposal (2012)
- Steering Committee member for the development of an NSF ADVANCE-IT proposal (2010-2011).
- Serve as external committee member for retention and tenure reviews in the Department of Music (2010).
- Participant on President Cruzado's Planning Working Group (2010).
- Assist in planning and coordinating NSF ADVANCE conference (2009-2010).
- Serve on the University Teacher Education Committee (2006 to present).
- Guest Speaker in Ecology Human dimension course (2008, 2010).
- Panel moderator for NSF ADVANCE conference (2009).
- Academic Advisor for Education Majors with Political Science teaching minor (2007 to present).
- Served on 3rd Year Retention Committee for colleague (2008).
- Chair for tenure track position search in Department of Political Science (2007).
- Served on search committee for Community Development Specialist (2006).

Biographical Sketch
LINDA M. YOUNG

Associate Professor

Department of Political Science, Montana State University
2-134 Wilson Hall, Bozeman, MT 59717; 406 994-5604; lmyoung@montana.edu

Professional Preparation

University of California, Berkeley	Development Studies	B.A. 1980
University of California, Davis	Agricultural Economics	Ph.D. 1987

Appointments

2008-present Associate Professor, Department of Political Science, Montana State University.

2005-2008 Assistant Professor, Department of Political Science, Montana State University.

2001-2005 Senior Research Scientist, Department of Agricultural Economics and Economics, Montana State University.

1996-2000 Agricultural Policy Program Coordinator, Trade Research Center, Montana State University.

1994-2000 Adjunct Assistant Professor, Department of Agricultural Economics and Economics, Montana State University.

1993-1994 Research Associate, Department of Agricultural Economics, Purdue University, West Lafayette, Indiana.

1993 Instructor, Department of Agricultural Economics, Purdue University, West Lafayette, Indiana. Instructed undergraduate econometrics course.

1988-1990 Senior Economist, Australian Bureau of Agricultural and Resource Economics, Canberra, Australia.

Publications (10 representative, * student researcher)

Young, L.M. and Kathleen C. Hansen *. 2011 “Disconnections in US and EU Agricultural Policy and Trade Negotiations: A Transactions Costs Politics Approach.” *The Estey Centre Journal of International Law and Trade Policy* 12(1):2-28.

Young, L. M. 2009. “Introduction: Capacity Building and Agricultural Trade Policy Challenges in Developing Countries.” *Journal of International Agricultural Trade and Development* 5(2).

Young, L. M. 2009. “Capacity Building Programs in Agricultural Trade Policy.” *Journal of International Agricultural Trade and Development* 5(2).

Young, L.M. and P.C. Abbott. 2008. “Food Aid Donor Allocations After 1990.” *Canadian Journal of Agricultural Economics* 56(1):27–51.

Young, L.M., A. Weersink, M. Fulton, and J.B. Deaton. 2007. “Carbon Sequestration in Agriculture: EU and US Perspectives.” *EuroChoices* 6(1):32–37.

Young, L.M. 2006. “Eliminating Non-Tariff Barriers to Trade: Feasible? Desirable?” *Journal of International Agricultural Trade and Development* 2(1):159–162.

- Young, L.M. and J. Waino. 2005. “The Antidumping Negotiations: Proposals, Positions and Anti-dumping Profiles.” *Estey Centre Journal of International Law and Trade Policy* 6(1):23–46.
- Young, L.M. 2005. “Export Competition Disciplines in the Doha Round.” Paper commissioned by the International Food and Agricultural Trade Policy Council, Washington, DC, June.
- Young, L.M. 2003. “Carbon Sequestration in Agriculture: The U.S. Policy Context.” *American Journal of Agricultural Economics* 85(5):1164–1170.
- Wainio, J., L.M. Young, and K. Meilke. 2003. “Trade Remedy Actions in NAFTA: Agriculture and Agri-Food Industries.” *World Economy* 26(7):1041–1065.

Synergistic Activities

- Editorial Board Member for *Estey Centre Journal of International Law and Trade Policy* and the *Journal of International Agricultural Trade and Development*.
- PI and administrator of “Promoting Open Agricultural Markets Through Capacity Building in Developing Countries.” William and Flora Hewlett Foundation, in collaboration with the International Agricultural Trade Research Consortium (IATRC), July 2006–June 2009, \$735,000.
- Guest editor of the *Journal of International Agricultural Trade and Development*, 2008, 5(2).
- Presented “Export Competition Issues and Solutions” to the OECD-WTO-IDB/INTAL Regional Meeting on Agriculture and Trade in Latin America, Buenos Aires, Argentina, October 9–11, 2006.
- Trade Policy Specialist, Consultant to Ministry of Agriculture, Pakistan, for the Food and Agriculture Organization, United Nations, November 2005–May 2006.

Collaborators and Co-Authors in Last 48 Months:

Abbott, Philip. Purdue University	Miranda, Siliva Helean Gavao de, Brazil
Deaton, Brady. University of Guelph	Odjo, Sunday, Benin
Deodhar, Satish, India	Salam, Abdul, Pakistan
Echeverria, Rodrigo, Chile	Tutwiler, Ann, Hewlett Foundation
Fulton, M. University of Saskatchewan	Waino, John. USDA, ERS
Gaisford, Jim. University of Calgary	Weersink, Alfons. University of Guelph
Karim, Imad Edin Elfadil Abdel, Sudan	Weerahew, Jeevika, Sir Lanka
Lim, Song Soo, South Korea	Wilmer, Franke, Montana State
Meilke, Karl. University of Guelph	Wong, Sara, Ecuador
Miljkovic, Dragan. North Dakota State	

Graduate Advisor:

Alex McCalla, University of California, Davis

Department of Psychology

The faculty in the *Department of Psychology* has wide-ranging expertise in behavioral sciences, with the majority of faculty conducting research directly related to health. Research foci include social psychology, cognitive and neuro-sciences (e.g., attention, memory, aging, learning) and health and development (e.g., pollution and stress; eating disorders; obesity). Faculty are strong methodologists, with expertise in (1) measurement of psychological constructs and behaviors and (2) design and data analysis of experiments involving human subjects.

Faculty who provided CVs:

Ian Handley
Keith Hutchison
Michelle Meade
Colleen Moore
Jessi Smith

Ian M. Handley
Abridged Curriculum Vitae
September, 2011

Department of Psychology
322 Traphagen Hall
Montana State University
Bozeman, MT 59717-3440
Homepage: <http://www.montana.edu/wwwpy/handley.htm>

Office Phone: 406-994-6508
Fax: 406-994-3804
Email: ihandley@montana.edu

Education

Postdoctoral Fellow; 2003-2005, Department of Psychology, University of Florida.
Ph.D. 2003, Experimental Psychology (Social Track), Ohio University.
M.S. 2000, Experimental Psychology (Social Track), Ohio University.
B.S. 1997 (cum laude), Psychology, The Ohio State University.

Recent Academic Employments

Assistant Professor: August 2005-Present.
Department of Psychology, Montana State University
Assistant Scientist/Postdoctoral Fellow for Dolores Albarracín: August 2003-May 2005.
Department of Psychology, University of Florida

Select Peer-Reviewed Publications (* denotes current or former student co-author)

- Handley, I. M., & *Goss, R. J.** (in press). How mental simulations of the future and message-induced expectations influence purchasing goals. *Psychology and Marketing*.
- Handley, I. M., & *Runnion, B. C.** (in press). Evidence that unconscious thinking influences persuasion based on argument quality. *Social Cognition* (Special Issue: Unconscious Thought and Decision Making).
- Albarracín, D., & **Handley, I. M.** (2011). The time for doing is not the time for change: Effects of general action and inaction goals on attitude accessibility and attitude change. *Journal of Personality and Social Psychology* 100, 983-998.
- Noguchi, K., **Handley, I. M.**, & Albarracín, D. (2011). Participating in politics resembles physical activity: General action patterns in international archives, US archives, and experiments. *Psychological Science*, 22, 235-242.
- Miller, A. K., **Handley, I. M.**, Markman, K. D., & Miller, J. H. (2010). Deconstructing self-blame following sexual assault: The critical role of cognitive processing. *Violence Against Women*, 16, 1120-1137.
- Handley, I. M.**, Albarracín, D., Brown, R. D., Li, H., Kumkale, E. C., & Kumkale, G. T. (2009). When the expectations from a message will not be realized: Naïve theories can eliminate expectation-congruent judgments via correction. *Journal of Experimental Social Psychology*, 45, 933-939.

- Smith, J. L., Wagaman, J., & **Handley**, I. M. (2009). Keeping it dull or making it fun: Task variation as a function of promotion versus prevention focus. *Motivation and Emotion*, 33, 150-160.
- Albarracín, D., **Handley**, I. M., Noguchi, K., McCulloch, K. C., Li, H., Leeper, J., Brown, R. D., Earl, A., & Hart, W. P. (2008). Increasing and decreasing motor and cognitive output: A model of general action and inaction goals. *Journal of Personality and Social Psychology*, 95, 510–523.
- Handley**, I. M., Lassiter, G. D., Nickell, E. F., & Herchenroeder, L. M. (2004). Affect and automatic mood maintenance. *Journal of Experimental Social Psychology*, 40, 106-112.
- Geers, A. L., **Handley**, I. M., & McLarney, A. (2003). Discerning the role of optimism in persuasion: The valence-enhancement hypothesis. *Journal of Personality and Social Psychology*, 85, 554-565.

Manuscripts Under Review

Handley, I. M., Rasinski, H. M., Fowler, S. L., Helfer, S. G., & Geers, A. L. (*International Journal of Behavioral Medicine*). *Beliefs about expectations moderate the influence of expectations on pain perception.*

Grant Activity

Handley, I. M. (PI), & Smith, J. L. (PI), 2010. *Increasing Breastfeeding among Low Income Mothers: Correcting Expectation Biases*. R21 proposal submitted to the National Institutes of Health. **Total Requested: \$284,871**. Proposal was not funded.

Handley, I. M. (PI), 2009. *Stringent Tests for the Quality of Decisions and Attitudes Formed Through Unconscious Thought*. Proposal submitted to the National Science Foundation. **Total Requested: \$188,316**. Proposal was not funded.

Handley, I. M. (PI), 2009. *Identifying Factors that Influence Meta-cognitive Reversals of the Placebo Effect*. Proposal was funded by Montana IDeA Network of Biomedical Research Excellence (INBRE); which is awarded by the National Center for Research Resources [NCRR] division of the National Institutes of Health [NIH]. **Direct Costs granted (2009-2011): \$60,000**.

Handley, I. M. (PI), 2009. *Positive Affect-Maintenance: Exploring Mediation, Resolving Contradictions, and Further Effects*. Proposal submitted for a Scholarship and Creativity Grant for the Advancement of the Arts, Humanities, and Social Sciences through Montana State University. **Total Requested: \$21,576.36**. Proposal was not funded.

Handley, I. M. (PI), 2008. *Establishing the Existence, Effects, and Implications of Automatic Affect-Maintenance Goals triggered by Positive Affect*. Proposal submitted to the National Science Foundation. **Total Requested: \$148,799**. Proposal was not funded.

Curriculum Vitae

Keith Allen Hutchison

EDUCATION

Postdoctoral Research Associate, Cognitive Psychology Laboratory, Dept. of Psychology, Washington University, St. Louis, MO.

Ph.D. Cognitive Psychology (2001), State University of New York, Albany, NY.

M.A. Psychology: Research Option (1996), California State University, Long Beach, CA.

B. A. Psychology (1994), California State University, Long Beach, CA.

PROFESSIONAL EMPLOYMENT

2011-present: Graduate Program Coordinator, Department of Psychology, Montana State University.

2010-2011: Interim Chair, Department of Psychology, Montana State University.

2009-present: Associate Professor of Psychology, Montana State University.

2003-2008: Assistant Professor of Psychology, Montana State University.

RESEARCH INTERESTS

Attention, explicit and implicit memory, language, cognitive effects of aging and Alzheimer's disease.

GRANT ACTIVITY

External Funding

2006-2009	National Science Foundation, Lead-PI: <i>The construction and utility of a large-scale semantic priming database.</i>	\$223,143
2009-2010	NSF Supplemental Funding Awarded	\$5,302

PUBLICATIONS

23 Articles in Peer-Reviewed Journals (1999-2011)

Web of Science: 457 total citations, h index = 10

Five Representative Examples

Hutchison, K.A. (2011). The interactive effects of list-based control, item-based control, and working memory capacity on Stroop performance. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 37, 851-860.

Hutchison, K. A., Balota, D. A., & Duchek, J. M. (2010). The utility of Stroop task switching as a marker for early stage Alzheimer's Disease. *Psychology and Aging, 25*, 545-559.

Hutchison, K. A., Balota, D. A., Cortese, M., & Watson, J. M. (2008). Predicting semantic priming at the item-level. *Quarterly Journal of Experimental Psychology, 61(7)*, 1036-1066.

Hutchison, K. A. (2007). Attentional control and the relatedness proportion effect in semantic priming. *Journal of Experimental Psychology: Learning, Memory, and Cognition, 33(4)*, 645-662.

Hutchison, K. A., & Balota, D. A. (2005). Decoupling semantic and associative information in false memory: Explorations with semantically ambiguous and unambiguous critical lures. *Journal of Memory and Language, 52*, 1-28.

1 Book Chapter

Balota, D. A., Yap, M. J., Hutchison, K.A., & Cortese, M. J.. (in press). Megastudies: Large scale analysis of lexical processes. In James S. Edelman (Ed). *Visual word recognition*.

38 Conference Presentations

COURSES TAUGHT

Cognitive Processes (graduate seminar), Memory and Cognition, Psychology of Language, Psychology of Prejudice, Research Design and Analysis II, Senior Thesis, Sensation & Perception

JOURNAL REVIEWER

Reviewer for articles submitted to over 20 different journals: Average 15 per year

DEPARTMENTAL AND UNIVERSITY SERVICE

Positions

Graduate program coordinator, 2011-present
Interim chair, department of Psychology 2010-2011
Subject pool coordinator 2005-2010
Director for Psi Chi, undergraduate honors society 2006-2007

Master's thesis supervisor (Advisor for 6 Master's Students)

Michelle L. Meade

Assistant Professor
Montana State University
Department of Psychology
Bozeman, MT 59717-3440

Office 406-994-5946
mlmeade@montana.edu

Education

B.A., Grinnell College, 1996
M.A. Washington University, 1999
Ph.D. Washington University, 2003

Honors and Awards

Beckman Institute for Advanced Science and Technology
Beckman Postdoctoral Fellow Fall 2004-Fall 2006

Student-nominated for MSU President's Excellence in
Teaching Award 2008, 2009, 2010

Teaching

Introductory Psychology, Fontbonne University Fall 2001
Memory & Cognition, Montana State University Fall 2006-2011
Psychology of Aging, Montana State University Spring 2007-2011
Memory, Montana State University Fall 2007-2010
Research Design and Analysis II, Montana State University Spring 2008-2011

Publications

- Meade, M. L., & Gigone, D. (in press). The effect of information distribution on collaborative inhibition. *Memory*.
- Nokes, T. J., Meade, M. L., & Morrow, D. G. (in press). The effect of expertise on collaborative problem solving. *Thinking & Reasoning*.
- Park, D. C., & Meade, M. L. (in press). Cognitive aging and everyday life. In D. C. Park, & N. Schwarz (Eds.), *Cognitive aging: A primer, Second Edition*. Philadelphia, PA, US: Psychology Press.
- Huff, M. J., Meade, M. L., & Hutchison, K. A. (2011). Age-related differences in guessing on free and forced recall tests. *Memory, 19*, 317-330.
- Meade, M. L., Hutchison, K. A., & Rand, K. M. (2010). Effects of Delay and Additivity on Implicit Activation for DRM Critical Items in Naming. *Journal of Memory and Language, 62*, 302-310.
- Meade, M. L., & Park, D. P. (2009). Enhancing Cognitive Function in Older Adults. In Chodzko-Zajko, W., Kramer, A.F., & Poon, L. W. (Eds.), *Enhancing Cognitive Functioning and Brain Plasticity*. Champaign, IL: Human Kinetics.
- Meade, M. L., & Roediger, H. L., III (2009). Age differences in collaborative memory: The role of retrieval manipulations. *Memory & Cognition, 37*, 962-975.
- Meade, M. L., Nokes, T. J., & Morrow, D. G. (2009). Expertise promotes facilitation on a collaborative memory task. *Memory, 17*, 39-48.
- Meade, M. L., Watson, J. M., Balota, D. A., & Roediger, H. L., III (2007). Spreading Activation and False Memories in the DRM Paradigm: Retrieval Mode is Necessary. *Journal of Memory and Language, 56*, 305-320.
- Park, D. C., Gutchess, A. H., Meade, M. L., & Stine-Morrow, E. A. L. (2007). Improving cognitive function in older adults: Nontraditional approaches. *Journal of Gerontology: Psychological Sciences, 62*, 45-52.

- Park, D. C., & Meade, M. L. (2007). A broad view of medical adherence: The importance of cognitive, social, and contextual factors. In L. L. Liu and D. C. Park (Eds.). *Social and Cognitive Perspectives on Medical Adherence*. Washington, DC: American Psychological Association.
- Meade, M. L., & Roediger, H. L., III (2006). The effect of forced recall on illusory recollection in younger and older adults. *American Journal of Psychology*, *119*, 433-462.
- Park, D. C. & Meade, M. L. (2006). Everyday memory. In R. Schulz, L. Noelker, K. Rockwood, & R. Sprott (Eds.), *Encyclopedia of Aging*. New York: Springer Publishing Company.
- Gibson, J. M., & Meade, M. L. (2004). Priming guesses on a forced-recall test. *Journal of General Psychology*, *131*, 225-241.
- Marsh, E. J., Meade, M. L., & Roediger, H. L., III. (2003). Learning facts from fiction. *Journal of Memory and Language*, *49*, 519-536.
- Roediger, H. L., III, & Meade, M. L. (2003). Retrieval processes in memory. In J. H. Byrne (Ed.), *Learning and Memory, Second Edition*. New York: Thomson Gale.
- Meade, M. L., & Roediger, H. L., III. (2002). Explorations in the social contagion of memory. *Memory & Cognition*, *30*, 995-1009.
- Pilotti, M., Meade, M. L., & Gallo, D. A. (2002). Implicit and explicit measures of memory for perceptual information in young adults, healthy older adults, and patients with Alzheimer's disease. *Experimental Aging Research*, *29*, 15-32.
- Roediger, H. L, III, Meade, M. L., & Bergman, E. T. (2001). Social contagion of memory. *Psychonomic Bulletin and Review*, *8*, 365-371.
- Roediger, H.L., & Meade, M.L. (2000). Learning: Cognitive approach: Human. In A. G. Kazdin (Ed.), *Encyclopedia of Psychology*. New York: Oxford University Press.
- Roediger, H.L., & Meade, M.L. (2000). Memory processes. In K. Pawlik and M.R. Rosenzweig (Eds.), *International Handbook of Psychology*. London: SAGE Publications.
- Roediger, H.L., Bergman, E.T., & Meade, M.L. (2000). Repeated reproduction from memory. In A. Saito (Ed.), *Bartlett, Cognition, and Culture*. London: Routledge.

Grant Activity

- Meade, M. L. (P.I.), Morrow, D. G. (Co-P.I.), & Nokes, T. J. (Co-P.I.), 2006. Expertise and collaborative success: The role of domain knowledge and collaborative skill. *Proposal submitted to the U.S. Army Research Institute for Behavioral and Social Sciences Basic Research Program*. Total Requested: \$809,892. Proposal was not funded.
- Meade, M. L. (P.I.), Morrow, D. G. (Co-P.I.), & Nokes, T. J. (Co-P.I.), 2007. Expertise and collaborative success: The role of domain knowledge and collaborative skill. *Proposal submitted to the National Science Foundation (Perception, Action, and Cognition)*. Total Requested: \$1,124,166. Proposal was not funded.
- Meade, M. L., & Hutchison, K. A. (Co-P.I.s), 2008. Memory and Aging. *Proposal submitted to College of Letters and Science Research/Creativity Program, Montana State University*. Total Requested: \$3,000. Proposal was funded.
- Meade, M. L. (P.I.), 2010. Social contagion of memory in young and older adults. *Proposal submitted as an RO3 to the National Institute of Aging*. Total Requested: \$142,500. Proposal was not funded.

CURRICULUM VITAE

July 2011

Name: Colleen F. Moore

Address: Psychology Department, Montana State University, PO Box 173440, Bozeman, MT, 59717-3440

Office: (406) 994-3801 (dept office);

Email: cfmoore@wisc.edu Website: <http://psych.wisc.edu/moore>

Education: B.A. 1972 Pomona College, Claremont, California
Magna Cum Laude, Psychology
M.A. 1975 University of Illinois, Psychology
Ph.D. 1978 University of Illinois, Psychology

Positions Held:

1977-1978	Instructor, Department of Psychology, University of Connecticut
1978-1984	Assistant Professor, Department of Psychology, University of Wisconsin-Madison
1984-1992	Associate Professor, Department of Psychology, University of Wisconsin-Madison
1992-present	Professor, Department of Psychology University of Wisconsin-Madison
2011-present	Professor, Dept Chair, Department of Psychology Montana State University -- Bozeman

Honors and Awards: Sigma Xi, Phi Beta Kappa, NSF Graduate Fellowship, 1973-1976, College of Letters and Science Student Advising Award, 1997, Castellan Award (Society for Judgment and Decision Making), 2001, Psychology Department Teaching Award, 2002-2003; Vilas Associate Award, University of Wisconsin-Madison, 2005-2006

Memberships in Professional Organizations: Society for Judgment and Decision Making, Psychonomic Society, Society for Research in Child Development, Midwestern Psychological Association

Selected Research and Publications: (All refereed except book chapters; asterisks indicate that the first author was my student)

- *Ebenbach, D. H., & Moore, C. F. (2000). Judgments and the environment: Incomplete information, inferences, and individual differences. *Organizational Behavior and Human Decision Processes*, 81, 1-27.
- *Kortenkamp, K. V., & Moore, C. F. (2001). Eco-centrism and anthropocentrism: Moral reasoning about ecological commons dilemmas. *Journal of Environmental Psychology*, 21, 261-272.
- *Rauwald, K. S., & Moore, C. F. (2002) Environmental attitudes as predictors of policy support across three cultures. *Environment and Behavior*, 34, 709-739.
- *Haines, B. A., & Moore, C. F. (2003). Integrating themes from cognitive and social cognitive development into the study of judgment and decision making. In S. Schneider & J. Shanteau (Eds.), *Emerging perspectives on judgment and decision research*. Mahwah, NJ: Lawrence Erlbaum.
- *Crawford, E. B., Moore, C. F., & Ahl, V. E. (2004). The roles of risk perception, borderline

- and anti-social personality characteristics in college alcohol use and abuse. *Journal of Applied Social Psychology*, 34, 1371-1394.
- Dilworth-Bart, J.E. & Moore, C.F. (2006). Mercy mercy me: Social injustices and the prevention of environmental pollutant exposures among ethnic minority and poor children. *Child Development*, 77, 247-265.
- *Kortenkamp, K.V. & Moore, C.F. (2006). Time, uncertainty, and individual differences in decisions to cooperate in resource dilemmas. *Personality and Social Psychology Bulletin*, 32, 603-615.
- Moore, C. F. (2006). The accidents at Three Mile Island and Chernobyl. In L. B. Berkowitz, N. Berkowitz & M. Patrick (Eds.), *Chernobyl: The event and its aftermath* (pp. 175-200). Madison, WI: Goblin Fern Press. (reprint of portions of Ch. 7 of *Silent Scourge: Children, pollution and why scientists disagree*).
- Moore, C.F., Gajewski, L.L., Laughlin, N.K., Luck, M.L., Larson, J.L. & Schneider, M.L. (2008). Developmental lead exposure induced tactile defensiveness in monkeys (*Macaca mulatta*). *Environmental Health Perspectives*, 116, 1322-1326.
- Moore, C.F. (2009). *Children and pollution: Why scientists disagree*. Oxford University Press.(354 pp).
- *Kortenkamp, K.V. & Moore, C.F. (2009). Children's moral evaluation of ecological damage: The effect of biocentric and anthropocentric evaluations. *Journal of Applied Social Psychology*, 39(8), 1785-1806. .
- *Schneider, M. L., Moore, C. F., Larson, J. A., Barr, C. S., DeJesus, O. T. & Roberts, A. D. (2009). Timing of moderate level prenatal alcohol exposure influences gene expression of sensory processing behavior in rhesus monkeys. *Frontiers in Integrative Neuroscience*, 3(30), 1-9.
- *Drwecki, B. B., Moore, C.F., Ward, S E, Prkachin, K. M. (2011). Reducing racial disparities in pain treatment: The role of empathy and perspective-taking. *Pain*, 152, 1001-1006.
- *Schneider, M. L., Moore, C. F., Barr, C. S. , Larson, J. A. & Kraemer, G. W. (2011). Moderate prenatal alcohol exposure and serotonin genotype interact to alter CNS serotonin function in rhesus monkey offspring. *Alcoholism: Clinical and Experimental Research*, 35(5), 912-920.
- *Schneider, M.L., Moore, C. F. & Adkins, M. M. (2011). The effects of prenatal alcohol exposure on behavior: rodent and primate studies. *Neuropsychology Review*, 21(2), 186-203.
- *Kortenkamp, K. V., & Moore, C. F. (2011). Psychology of risk perception. *Wiley Encyclopedia of Operations Research and Management Science*, V. Bier (Ed.).

Recent Funding

1. Agency: NIAAA. Title: Fetal alcohol effects in monkeys: Dopamine and behavior
PI: Mary Schneider, Co-I: Moore, percent effort 10%
Dates & Direct Costs: 6/1/2006 to 5/31/2011, total direct costs: \$2,144,760
2. Agency: NIAAA: Title: Moderate Level Prenatal Alcohol Exposure in Primates
PI: Mary Schneider, Co-I: Moore, percent effort 10%
Dates & Direct Costs: 8/1/2006 to 7/31/2011, total direct costs: \$2,087,045
3. Agency: RWJ Health & Society Scholars Program, 2007-2008, 2009-2010, \$12000.
Perceptions of Uncertain Environmental Risks with Ethical Implications (for support of dissertation research by Katherine V. Kortenkamp); Empathy and pain treatment disparities: An experimental investigation (for support of dissertation research by Brian Drwecki)
4. Agency: MERC (Medical Education Research Committee)
Title: Wisconsin Children's Lead Levels and Educational Outcomes, MERC -- \$500,000,
PI – Marty Kanarek , Population Health Sciences, UW-Madison, Moore – Co-Investigator, 2008 - 2011

Abridged Curriculum Vita

Jessi L. Smith, PhD

Montana State University, Department of Psychology, 309 Traphagen Hall, Bozeman, MT 59717

Office Phone: 406-994-5228 Email: jsismith@montana.edu

Employment

<i>Date</i>	<i>Institution</i>
9/2002-6/2006	Assistant Professor The Ohio State University, Department of Psychology Newark OH, 43055
8/2006 –8/2009	Assistant Professor Montana State University, Department of Psychology Bozeman, MT 59717
9/2009 –current	Associate Professor Montana State University, Department of Psychology Bozeman, MT 59717

Education

<i>Date</i>	<i>Institution</i>
5/23/1997	B.A. in Psychology, with Highest Distinction Summa Cum Laude, University of Colorado at Colorado Springs
5/05/2000	M.S. in Psychology, University of Utah, Department of Psychology
5/10/2002	Ph.D. in Social Psychology, University of Utah

Abridged List of Awarded Grants and Fellowships

3/2009-6/2010	Feel the burden: Women's disengagement from male-dominated fields. Funded by an ADVANCE leadership mini-grant from the <i>National Science Foundation</i> (\$5542.20)
5/2009- 4/2011	Barriers to Breastfeeding: How sexual objectification and stigma consciousness influence breastfeeding across the socioeconomic spectrum. Funded by the Montana IDeA Network of Biomedical Research Excellence (INBRE) program from <i>NIH NCRR</i> (\$55,786)
7/2009 - 6/2011	Social Scientists Speaker Seminar. Joint funding by the MSU Provost for Creativity and Technology and Montana IDeA Network of Biomedical Research Excellence (INBRE) program from <i>NIH NCRR</i> (\$10,000)
2/1/2010 - 1/31/2013	Supportive Communities: How Gender Impacts the Native American Experience of STEM fields. Funded by the <i>National Science Foundation</i> HRD-0936647. \$211,078.00. <i>PI: Smith, J. L. Department of Psychology, MSU</i>
12/2010- 11/30/2013	The meditational role of stereotype threat and achievement goals in the regulation of research motivation. Funded by the <i>National Science Foundation</i> HRD-1036767 \$312, 135. <i>Co-PI: Smith, J. L., Department of Psychology, MSU</i>
7/2011 - 6/2015	Culturally Connected Communal Goals: Latino and Native Americans in Biomedicine. Funded by the <i>National Institute of Health</i> 1R01GM098462-01 \$957,239.00 <i>PI: Smith, J. L., Department of Psychology, MSU</i> <i>Co-Investigator: Thoman, D., Psychology, CSLB</i>

Abridged List of Peer Reviewed Journal Publications (in chronological order)

* denotes undergraduate or graduate student co-author

- Isaac, J., Sansone, C., & **Smith, J. L.** (1999). Other people as a source of interest in an activity. *Journal of Experimental Social Psychology*, 35, 239-265.
- Smith, J. L.** & White, P.H. (2002). An examination of implicitly activated, explicitly activated and nullified stereotypes on mathematical performance: It's not just a female's issue. *Sex Roles*, 47, 179-191. doi: 10.1023/A:1021051223441
- Smith, J. L.** (2004). Understanding the process of stereotype threat: A review of mediational variables and new performance goal directions. *Educational Psychology Review*, 16, 177-206. doi: 10.1023/B:EDPR.0000034020.20317.89
- Smith, J. L.** & *Johnson, C. (2006). A stereotype boost or choking under pressure? Positive gender stereotypes and men who are low in domain identification. *Basic and Applied Social Psychology* 28, 51-63. doi: 10.1207/s15324834basp2801_5
- Smith, J. L.** (2006). The interplay among stereotype threat, performance-avoidance goals, and women's math performance expectations. *Sex Roles*, 54, 287-296.
- Horgan, T. & **Smith, J. L.** (2006). Interpersonal reasons for interpersonal perceptions: Gender-incongruent purpose goals and nonverbal judgment accuracy. *Journal of Nonverbal Behavior*, 30, 127-140.
- *Walsh, P. E. & **Smith, J. L.** (2007). Opposing standards within the cultural worldview: Terror management theory and American Women's desire for uniqueness versus inclusiveness. *Psychology of Women Quarterly*, 31, 103-113.
- Smith, J. L.**, Sansone, C., & White, P.H. (2007). The Stereotyped Task Engagement Process: The role of interest and achievement motivation. *Journal of Educational Psychology*, 99, 99-114.
- Smith, J. L.** & Ruiz, J.M. (2007). Interpersonal orientation in context: Correlates and effects of interpersonal complementarity on subjective and cardiovascular experiences. *Journal of Personality*, 75, 679-708.
- Smith, J. L.**, Paul, D., & Paul, R. (2007). No place for a woman: Evidence for gender bias in evaluations of presidential candidates. *Basic and Applied Social Psychology*, 29, 225-233.
- Smith, J.L.**, Kausar, R., & Holt-Lunstad, J. (2007). Stigma consciousness in the classroom: A comparison of Pakistani women's motivation and well-being in science and non-science fields of study. *Sex Roles*, 57, 3-13.
- Smith, J. L.**, *Hardy, T., & Arkin, R. (2009). When practice doesn't make perfect: Effort expenditure as an active behavioral self-handicapping strategy. *Journal of Research in Personality*, 43, 95-98.
- Smith, J. L.** & *Lewis, K. L. (2009). Men's interpersonal (mis)perception: Fitting in with gender norms following social rejection. *Sex Roles*, 61, 252-264.
- Tragakis, M. A., & **Smith, J. L.** (2010) The Relationship between Social Identity Integration and Psychological Adjustment: A Focus on Mainstream and Marginalized Cultural Identities. *Identity: An International Journal of Theory and Research*, 10, 201-221.
- *Allen, J. & **Smith, J. L.** (2011). Walking down Castro Street: The influence of sexuality stereotypes on men's experience of gender-role incongruence. *Psychology of Men & Masculinity*, 12, 77-96. doi: 10.1037/a0019678
- Thoman, D. B., **Smith, J. L.**, & Silvia, P. J. (2011). Interest and Ego Depletion: Demonstrating the Resource Replenishment Function of Interest. *Social Psychological and Personality Science* (online first) doi: 10.1177/1948550611402521
- Smith, J. L.**, *Hawkinson, K., & *Paull, K. (2011). Spoiled milk: An experimental examination of bias against mothers who breastfeed. *Personality and Social Psychology Bulletin* doi: 10.1177/0146167211401629. *Featured in 458 online outlets and several newspapers and print magazines*
- Metz, A. *Cech, E., Babcock, T. & **Smith, J. L.** (in press). The Effect of Formal and Informal Support Structures on the Motivation of Native American Students in Nursing. *Journal of Nursing Education*

Department of Sociology and Anthropology

Sociology and Anthropology is a diverse department including Sociologists, Criminologists, and Cultural and Physical Anthropologists who focus on historical and contemporary human relationships, social inequality, and social institutions. The Sociology faculty includes nationally and internationally known scholars who do theoretically informed research on transnational migration, new immigrant destinations, racial and economic stratification and crime, educational inequality, educational policy, health disparities, family violence, environmental quality and family relations, ethnicity and substance use, and residential mobility and family processes. The Anthropology faculty is well known for research in archaeology that extends from the High Plains and mountain regions of Montana to Jordan, the Democratic Republic of the Congo, Namibia, and South Africa. The social and cultural anthropologists are also internationally recognized for research that deals with issues of politics and gender in Japan and concerns with representation, identity, and social change in the Republic of the Marshall Islands. In addition to their substantive contributions, the Sociology and Anthropology faculty has methodological expertise in field research, qualitative data collection and analysis, survey design, historical analyses, and complex statistical analyses. Members of the faculty have funded their research through federal agencies (e.g., NIH, NSF), state agencies (U.S. Forest Service, U.S. Bureau of Land Management), and private foundations (Spencer, Toyota, Suntory, and Hewlett). The department has a longstanding commitment to research and publication, often involving undergraduate students in the research process at all stages including as co-authors.

Faculty who provided CVs:

David Eitle
Tami Eitle
Sue Monahan
Scott Myers
Michael Neeley
Leah Schmalzbauer

BIOGRAPHICAL SKETCH

Provide the following information for the key personnel and other significant contributors.
Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME Eitle, David James	POSITION TITLE Associate Professor of Sociology		
eRA COMMONS USER NAME			
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
Ohio State University, Columbus, OH	B.A.	1980-1983	Criminology
Ohio State University, Columbus, OH	M.A.	1985-1986	Sociology
Indiana University, Bloomington, IN	Ph.D.	1987-1996	Sociology

A. Positions and Honors:

Positions and Employment:

2006-present Associate Professor, Department of Sociology and Anthropology, Montana State University
2000-2006 Assistant Professor, Criminal Justice Program, Florida International University
1999-2001 Research Associate, RO1 DA10772 Turner (PI) NIDA Grant: Drug Use Trajectories:
Ethnic/Racial Comparisons.

B. Selected Peer-Reviewed Publications (in chronological order):

1. Eitle, David, Stewart D'Alessio, and Lisa Stolzenberg. (2002) "Racial threat and social control: A test of the political, economic, and threat of crime hypotheses." Social Forces, 81: 557-576.
2. Eitle, David. (2002) "Exploring a source of deviance-producing strain for females: Perceived discrimination and General Strain Theory." Journal of Criminal Justice, 30: 429-442.
3. D'Alessio, Stewart, Stolzenberg, Lisa, and David J. Eitle. (2002) "Racial threat and interracial violent crime." Social Science Research, 31:392-408.
4. Eitle, David and R. Jay Turner. (2002) "Exposure to community violence and young adult crime: The effects of witnessing violence, traumatic victimization, and other stressful life events." Journal of Research in Crime and Delinquency, 39: 214-237.
5. Eitle, Tamela McNulty and David Eitle (co-authors). (2002) Race, cultural capital, and the educational effects of sports participation." Sociology of Education, 75: 123-146.
6. Eitle, David J. and Tamela McNulty Eitle. (2003) "Segregation and school violence." Social Forces, 82: 589-615.
7. Eitle, David and R. Jay Turner. (2003) "Stress exposure, race, and young adult male crime." Sociological Quarterly, 2: 243-269.
8. Eitle, David J., R. Jay Turner, and Tamela McNulty Eitle. (2003) "The Deterrence hypothesis reexamined: Sports participation and substance use among young adults." Journal of Drug Issues, 197-228.
9. Eitle, David J. and Tamela McNulty Eitle. (2004). "School and county characteristics as predictors of school rates of substance use incidents." Journal of Health and Social Behavior, 45, 408-421.
10. Borman, Kathryn, Tamela McNulty Eitle, Deanna Michael, David J. Eitle, Reginald Lee, Larry Johnson, Deidre Cobb-Roberts, Sherman Dorn, and Barbara Shircliffe. (2004) "Accountability in a Post-desegregation Era: The Continuing Significance of Racial Segregation in Florida's Schools." American Educational Research Journal, 41:605-634.
11. Eitle, Tamela McNulty, and David Eitle. (2004) "Inequality, Segregation, and the Overrepresentation of African-Americans in School Suspensions." Sociological Perspectives, 47: 269-287.
12. Stolzenberg, Lisa, D'Alessio, Stewart, and David J. Eitle. (2004) "A Multilevel Test of Racial Threat Theory." Criminology, 42: 673-698.

13. Eitle, David. (2005). "The moderating effects of peer substance use on the family structure—adolescent substance use association: quantity versus quality of parenting." *Addictive Behaviors*, 30:963-980.
14. Eitle, David. (2006). "Parental gender, single parent families and delinquency: Exploring the moderating influence of race/ethnicity." *Social Science Research* 35: 727-748.
15. Eitle, Tamela McNulty, and David Eitle. (2007). "School Commitment and Alcohol Use: The Moderating Role of Race and Ethnicity." *Educational Policy Analysis Archives*, 15: 1-17.
16. Eitle, David and John Taylor. (2008) "Are Hispanics the new 'Threat'? Minority Group Threat and Fear of Crime in Miami-Dade County." *Social Science Research*, 37: 1102–1115.
17. Eitle, David. (2009). "Dimensions of Racial Segregation, Hypersegregation, and Black Homicide Rates." *Journal of Criminal Justice*, 37: 28-36.
18. Taylor, John, Eitle, David, and David Russell. (2009). "Racial/ethnic variation in the relationship between physical limitation and fear of crime: an examination of mediating and moderating factors." *Deviant Behavior*, 30: 1-31.
19. Eitle, David and Sue Monahan. (2009). "Revisiting the racial threat thesis: The role of police organizational characteristics in predicting race-specific drug arrest rates." *Justice Quarterly*, 26, 528-561.
20. Eitle, David. (2009). "Dimensions of racial segregation, hypersegregation, and black homicide rates." *Journal of Criminal Justice*, 37,28-36.
21. Eitle, David. (2010). "General strain theory, persistence, and desistance among young adult males." *Journal of Criminal Justice*, 38, 1113-1121.
22. Eitle, David, John Taylor, and Tamela McNulty Eitle. (2010). "Heavy episodic alcohol use in emerging adulthood: The role of early risk factors and young adult transitions." *Journal of Drug Issues*, 40, 295-320.
23. Eitle, David, and Tamela McNulty Eitle. (2010). "Public school segregation and juvenile violent crime arrests in metropolitan areas." *Sociological Quarterly*, 51, 436-459.
24. Eitle, David, John Taylor, and Kay Pih. (2010). "Extending the life course interdependence model: life transitions and the enduring consequences of early self-derogation for young adult crime." *Youth and Society*, 41,519-545.
25. Eitle, David. (2011). "Religion and gambling among young adults in the United States: Moral communities and the deterrence hypothesis." *Journal for the Scientific Study of Religion*, 50, 61-81.
26. Eitle, David and John Taylor. (2011). "Strain, BIS/BAS levels and gambling behavior among young adult males." *Deviant Behavior*, 32, 1-37.

C. Research Support

Completed Research Support During the Last Three Years

National Institute on Drug Abuse. Understanding racial disparities in teen methamphetamine use."
 Grant #: 1R03DA029212-01. (\$140,363). 6/10-5/12
 Role: Joint PI

NIH Montana INBRE Start up money, Montana State University 05/09-08/09
 Role: PI

BEST program grant recipient, Montana State University 01/09-0/5-09
 Race, ethnicity, and the methamphetamine use-crime association in Montana
 The university provided support to write a grant proposal during spring semester.
 Role: PI

Scholarship and Creativity Grants for the Advancement of the Arts, Humanities, and Social Sciences, Montana State University. 06/07-05/08
 Racial Threat, Race, and Fear of Crime: Exploring Mediating and Moderating Factors.
 The purpose of this study was to evaluate the role of race, both at the individual and contextual level, in understanding fear of crime among a sample of respondents from South Florida.
 Role: PI

BIOGRAPHICAL SKETCH

Provide the following information for the key personnel and other significant contributors.
Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME Eitle, Tamela McNulty	POSITION TITLE Associate Professor of Sociology		
eRA COMMONS USER NAME teitle			
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
University of Kansas, Lawrence Kansas	B.A.	1988-1990	Sociology and Personnel Administration
Indiana University, Bloomington, IN	M.A.	1990-1993	Sociology
Indiana University, Bloomington, IN	Ph.D.	1993-1998	Sociology

A. Personal Statement:

I am a sociologist with expertise in the study of education, racial inequality in educational opportunities and outcomes, adolescence and young adulthood, and racial and ethnic disparities in health. I have published over 20 research papers. The majority of this research focuses on the social determinants of racial/ethnic disparities in educational or health outcomes. Currently I am Joint-PI on a NIDA funded study exploring racial disparities in methamphetamine use among Montana teens.

B. Positions and Honors:

Positions and Employment:

2006-present Associate Professor, Department of Sociology and Anthropology, Montana State University
2005-2006 Associate Professor, Department of Sociology, University of Miami
1999-2005 Assistant Professor, Department of Sociology, University of Miami
1998-1999 Assistant Professor, Department of Sociology, Anthropology, and Criminal Justice, University of North Florida
1998 Instructor, Department of Sociology, Anthropology, and Criminal Justice, University of North Florida

Other Experience and Professional Membership

2006- NSF, Sociology; Law and Social Sciences, ad hoc reviewer

Honors:

1996-1997 Spencer Dissertation Fellowship for Research Related to Education, The Spencer Foundation.

C. Selected Peer-Reviewed Publications (in chronological order):

1. Eitle, Tamela McNulty and David Eitle (co-authors). (2002) "Race, cultural capital, and the educational effects of sports participation." Sociology of Education, 75: 123-146.
2. Eitle, Tamela McNulty. (2002). "Special Education or Racial Segregation: Understanding Variation in the Representation of African American Students in Educable Mentally Handicapped Programs." The Sociological Quarterly, 43:575-605.
3. Eitle, Tamela McNulty and David Eitle. (2002). "Just Don't Do It: High School Sports Participation and Young Female Adult Sexual Behavior." Sociology of Sport Journal, 19: 403-418.
4. Eitle, David J. and Tamela McNulty Eitle. (2003) "Segregation and school violence." Social Forces, 82: 589-615.
5. Eitle, David J., R. Jay Turner, and Tamela McNulty Eitle. (2003). "The Deterrence Hypothesis Revisited: Sports Participation and Substance Use Among Young Adults." Journal of Drug Issues 33:197-228.

6. Borman, Kathryn, Tamela McNulty Eitle, Deanna Michael, David J. Eitle, Reginald Lee, Larry Johnson, Deidre Cobb-Roberts, Sherman Dorn, and Barbara Shircliffe. (2004) "Accountability in a Post-desegregation Era: The Continuing Significance of Racial Segregation in Florida's Schools." American Educational Research Journal, 41:605-634.
7. Eitle, Tamela McNulty, and David Eitle. (2004) "Inequality, Segregation, and the Overrepresentation of African-Americans in School Suspensions." Sociological Perspectives, 47: 269-287.
8. Eitle, David J. and Tamela McNulty Eitle. (2004). "School and county characteristics as predictors of school rates of substance use incidents." Journal of Health and Social Behavior, 45, 408-421. (PMID: 15869113).
9. Eitle, Tamela McNulty. (2005). "Do Gender and Race Matter? Explaining the Relationship between Sports Participation and Achievement." Sociological Spectrum, 47:210-230.
10. Wilson, George, Tamela McNulty Eitle, and Benjamin Bishin. (2006). "The Determinants of Racial Disparities in Perceived Job Insecurity." Sociological Inquiry, 76: 210-230.
11. Eitle, Tamela McNulty, and David Eitle. (2007). "School Commitment and Alcohol Use: The Moderating Role of Race and Ethnicity." Educational Policy Analysis Archives, 15: 1-17.
12. Wahl, Ana-Maria G., and Tamela McNulty Eitle (co-authors). (2008). "Gender, Acculturation, and Alcohol Use among Latina/o Adolescents: A Multi-Ethnic Comparison." Journal of Immigrant and Minority Health, at <http://www.springerlink.com/content/65g231q4763g6715/> (PMID: 18807187).
13. Eitle, Tamela McNulty, Ana-Maria G. Wahl, and Elizabeth Aranda. (2009). "Immigrant Generation, Acculturation, and Alcohol Use among Latina/o Adolescents." Social Science Research, 38:732-742.
14. Eitle, Tamela McNulty, and Matthew Steffens. (2009). "Religious Affiliation and Racial Attitudes." Social Science Journal 46:506-520.
15. Eitle, David, and Tamela McNulty Eitle. (2010). "Public School Segregation and Juvenile Violent Crime Arrests in Metropolitan Areas." The Sociological Quarterly 15 (3):436-459.
16. Eitle, David, Taylor, John, and Tamela McNulty Eitle. (2010). "Heavy Alcohol Use in Emerging Adulthood: The Role of Early Risk Factors and Young Adult Transitions." Journal of Drug Issues 40:395-420

D. Research Support

Ongoing Research Support

NIH/NIDA Grant No. R03 DA029212-01 Eitle and Eitle (Joint-PIs) 06/2010-05/2012
 Racial Disparities in Teen Methamphetamine Use in Montana
 The goal of this study is to study the efficacy of the stress-process model for understanding methamphetamine use among both white and American Indian adolescents in Montana.
 Role: Joint PI

Selected Completed Research Support

NIH/NIAAA. Grant No. R03 AA01637-01 Ana Balsa (PI) 09/2007-08/2009
 Alcohol Use and Social Capital
 Role: Consultant

NSF, Teacher Professional Continuum (TPC) Okhee Lee (PI) 05/2004-04/2009
 Promoting Science Among English Language Learners in a High-Stakes Testing Environment.
 Role: Co-Investigator (05/2004-08/2006)

NIH/NIDA. Grant No. R01 DA018645 Michael French (PI) 05/2005-04/2010
 Economic Evaluation Methods: Development and Applications
 Role: Co-Investigator (05/2001-05/2006)

NIH/NIAAA. Grant No. R01 AA13167 Michael French (PI) 06/2001-05/2006
 Costs and Benefits of Alcohol Services and Interventions
 Role: Co-Investigator (08/2004-05/2006)

Susanne (Sue) Monahan
Department of Sociology & Anthropology
Montana State University
Bozeman, MT 59717-2380
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smonahan@montana.edu

Education

Ph.D. 1993, Stanford University, Sociology.
A.M. 1988, Stanford University, Sociology.
B.A. 1987, Swarthmore College, Sociology/Anthropology and Economics.

Administrative/Research Appointments

2011-present Associate Dean for Program and Curricular Development, College of Letters & Science, Montana State University
2005-2009 Chair, Department of Sociology & Anthropology, Montana State University.
1992-1994 Project Manager, Center for Health Care Evaluation, Palo Alto Veterans Administration Hospital and Stanford Medical Center.

Academic Appointments

1995-2011 Assistant to Associate Professor, Department of Sociology & Anthropology, Montana State University.
2009-2010 Visiting Associate Professor, Department of Sociology, Brown University.
1994-1995 Visiting Assistant Professor, Department of Sociology, Dartmouth College.

Books

- Emerson, MO, W Mirola & SC Monahan. 2010. *Religion Matters: What Sociology Teaches Us About Religion in Our World*. Boston: Allyn Bacon.
- Monahan, SC, W Mirola & MO Emerson. 2010. *Sociology of Religion: A Reader (2nd edition)*. Boston: Allyn Bacon.
- Monahan, SC, W Mirola & MO Emerson. 2001. *Sociology of Religion: A Reader*. Upper Saddle River, NJ: Prentice Hall.

Refereed Journal Articles

- Eitle, DJ & SC Monahan. 2009. "Revisiting the racial threat thesis: The role of police organizational characteristics in predicting race-specific drug arrest rates." *Justice Quarterly* 26(3):528-561.
- Monahan, SC & BA Quinn. 2006. "Beyond bad apples and weak leaders: Toward a neo-institutional explanation of organizational deviance." *Theoretical Criminology* 10(3): 361-385.
- Monahan, SC. 1999. "Who controls church work? Organizational effects on jurisdictional boundaries and disputes in churches." *Journal for the Scientific Study of Religion*, 38: 370-385.
- Monahan, SC. 1999. "Role ambiguity among Protestant clergy: Consequences of the 'activated laity'". *Review of Religious Research*, 41:80-95.
- Monahan, SC & JW Finney. 1996. "Explaining abstinence rates following treatment for alcohol abuse: A quantitative synthesis of patient, research design and treatment effects." *Addiction*, 91:787-805.
- Finney, JW & SC Monahan. 1996. "The cost effectiveness of treatment for alcoholism: A second approximation." *Journal of Studies on Alcohol*, 57:229-243.

- Floyd, AS, SC Monahan, JW Finney & JB Morley. 1996. "The nature of alcoholism treatment outcome research, 1980-1992." *Addictive Behaviors*, 21:413-428.
- Morley, JB, JW Finney, SC Monahan & AS Floyd. 1996. "The quality of alcoholism treatment outcome research, 1980-1992." *Addictive Behaviors*, 21:429-443.
- Monahan, SC, CM Buchanan, EE Maccoby & SM Dorbusch. 1993. "Sibling differences in divorced families." *Child Development*, 64: 152-168.

Book Chapters

- Monahan, SC. In press. "Seeing religion sociologically through film." Invited chapter in *Cinematic Sociology, 2nd Edition* (Kathryn Feltey and Jean-Anne Sutherland, Eds.). Pine Forge Press.
- Monahan, SC. 2001. Integrative essays on "Ritual and belief," "The secularization debate," and "Religious authority, organizations and institutions" in *Sociology of Religion: A Reader* (Monahan, Mirola and Emerson, eds.). Upper Saddle River, NJ: Prentice Hall.
- Monahan, SC, JW Meyer and WR Scott. 1994. "Employee training: The expansion of organizational citizenship." Pp 255-272 in WR Scott & JW Meyer (eds.) *Institutional Environments and Organizations: Structural Complexity and Individualism*. Thousand Oaks, CA: Sage.

Extramural Grants & Contracts (Awarded)

- "Hospital as organizations and health disparities." National Institutes of Health (Montana IDEA Network of Biomedical Research Excellence), 2009-2014. INBRE Project Leader. \$148,177.
- "Big Sky Leadership Initiative to ADVANCE Women in Careers in Research Leadership." National Science Foundation, 2006-2010. PI (2008-2010), Co-PI (2006-2008). \$299,222.
- "Staff Expansion Grant." Japan Foundation, 2007-2010. PI (2007-2009). \$90,511.
- "Project Archaeology Electronic Database Development and Distribution." Bureau of Land Management, 2006. Co-PI. \$30,000.
- "Publication Development Grant." Bureau of Land Management, 2005. PI. \$7,200.
- "E-government in rural communities." National Science Foundation, 2004. Co-PI. \$20,000.
- "Fresh Start: 2005." Episcopal Church Foundation, 2004-2005. PI. \$10,650.
- "Clergy transitions: Evaluation of Fresh Start." Episcopal Church Foundation, 2000-2003. PI. \$22,500.
- "Survey of Episcopal Congregations." Episcopal Church Foundation, 1999-2000. PI. \$6,852.

Presentations (recent)

- Monahan, SC & MC Suchman. 2011. "Does HIPAA hinder patient-provider communication?" Presented at Law & Society meetings, San Francisco, June; Western Region INBRE Scientific Conference, Reno, NV, June; and American Sociological Association meetings, Las Vegas, August.
- Monahan, SC & MC Suchman. 2011. "Can we talk? The effects of organizational structure and culture on patient-provider communication." Presented at American Sociological Association meetings, Las Vegas, August.
- Monahan, SC. 2010. "Start with a survey: Building a dataset to study hospitals and health disparities." (Invited) Montana INBRE Interdisciplinary Forum, Billings, MT, September.
- Monahan, SC & BA Quinn. 2005. "Bad apples and failed leadership? Scapegoats for deviance in decoupled organizations." Presented at the Pacific Sociological Association annual meeting, Portland, OR, April.

SCOTT M. MYERS

Department of Sociology
Montana State University
Bozeman, MT 59717-2380
email: smyers@montana.edu
phone: 406-994-5249; fax: 406-994-3177

ACADEMIC POSITIONS

Chair, Department of Sociology and Anthropology, Montana State University, 2009 – present
Associate Professor, Department of Sociology, Montana State University, 2003 – present
(Tenured 10/2006)
Assistant Professor, Department of Sociology, Washington State University, 2000 – 2003
Assistant Professor, Department of Sociology, Iowa State University, 1997 – 2000

EDUCATION

Ph.D. in Sociology, 1997
Ph.D. in Demography, 1997
The Pennsylvania State University, University Park

M.A. in Sociology, 1993
University of Tennessee, Knoxville

B.A. in Sociology and Economics, 1988
Vanderbilt University, Nashville, Tennessee

RESEARCH INTERESTS & SKILLS

Interests: Education, Family, Demography, Environment, Stratification
Skills: Survey methodology, quantitative statistics, large-scale data sets

PEER-REVIEWED PUBLICATIONS

Myers, Scott M. and Carrie B. Myers. 2012. “Are Discussions about College between Parents and Their High School Children a College Planning Activity? Making the Case and Testing the Predictors.” *American Journal of Education* 118: TBA

Myers, Scott M. 2010. “Connecting the Demographic Dots: Geographic Mobility and Birth Intentions.” *Journal of Family Issues* 31: 1622-1635.

Myers, Carrie B. and **Myers, Scott M.** 2009. “Addressing the Gender Gap: A Teaching and Learning Strategy in Undergraduate Science Courses.” *Journal of Women and Minorities in Science and Engineering* 14: 363-379.

Myers, Scott M. 2008. “Social Integration/Isolation, Adulthood” Pp. 416 – 420 in *Encyclopedia of the Life Course and Human Development*, edited by D. Carr. Detroit: Gale Research/Macmillan Reference.

Myers, Carrie B. and **Myers, Scott M.** 2007. “Assessing Assessment in an Undergraduate Statistics Course: Testing the Effects of Two Evaluation Approaches on Learning and Performance.” *Innovative Higher Education* 31: 227-236.

PEER-REVIEWED PUBLICATIONS (CONT.)

- Myers, Scott M.** 2006. "Religious Homogamy and Marital Quality: Historical and Generational Patterns, 1980-1997." *Journal of Marriage and Family* 68: 292-304.
- Myers, Scott M.** 2005. "Childhood and Adolescent Mobility and Adult Relations with Parents." *Journal of Family Issues* 26: 350-379.
- Myers, Scott M.** 2004. "Religion and Intergenerational Assistance: Distinct Differences by Adult Children's Gender and Parent's Marital Status." *The Sociological Quarterly* 45: 67-89.
- Myers, Scott M.** and Alan Booth. 2002b. "Forerunners of Change in Non-Traditional Gender Ideology." *Social Psychology Quarterly* 65:18-37.
- Vannini, Philip and **Scott M. Myers.** 2002a. "Crazy About You: Reflections on the Meanings of Contemporary Teen Pop Music." *Electronic Journal of Sociology* 6 (2)
<http://www.sociology.org/content/vol006.002/vannini_myers.html>
- Myers, Scott M.** 2000b. "The Impact of Religious Involvement on Migration." *Social Forces* 79:755-783.
- Myers, Scott M.** 2000a. "Moving Into Adulthood: Family Residential Mobility and First Union Transitions." *Social Science Quarterly* 81:782-797.
Reprinted in Martin, W. Allen. (Ed.). 2004. *The Urban Community*. Prentice Hall.
- Myers, Scott M.** 1999c. "Childhood Migration and Social Integration in Adulthood." *Journal of Marriage and the Family* 61: 774-789.
- Myers, Scott M.** 1999b. "Residential Mobility as a Way of Life: Evidence of Intergenerational Similarities." *Journal of Marriage and the Family* 61:871-880.
- Myers, Scott M.** and Alan Booth. 1999a. "Marital Strains and Marital Quality: The Role of High and Low Locus of Control." *Journal of Marriage and the Family* 61: 423-436.
- Myers, Scott M.**, Paul R. Amato, and Alan Booth. 1997b. "Social Integration." Pp. 120-146 in *Growing Up in an Era of Family Upheaval: Familial Influences on Young Adult Lives*, edited by P. R. Amato and A. Booth. Cambridge, MA: Harvard University Press.
- Myers, Scott M.** 1997a. "Marital Uncertainty and Childbearing" *Social Forces* 75:1271-1290.
- Myers, Scott M.** 1996b. "An Interactive Model of Religiosity Inheritance: The Importance of Family Context." *American Sociological Review* 61:858-866.
- Myers, Scott M.** and Alan Booth. 1996a. "Men's Retirement and Marital Quality." *Journal of Family Issues* 17:336-357.
- Myers, Scott M.** and Donald W. Hastings. 1995. "Convergence in Rural-Urban Patterns of Nuptiality and Mortality: A Life Table Update." *Sociological Spectrum* 15:227-256.

CURRICULUM VITAE

Michael P. Neeley

Dept. of Sociology & Anthropology
Montana State University
Bozeman, MT 59717
(406) 994-719
e-mail: mneeley@montana.edu

EDUCATION

Arizona State University, Tempe, Arizona
Ph.D., Anthropology, 1997
Dissertation: *Assigning Meaning to Lithic Variability in the Epipaleolithic of the Southern Levant.*

M.A., Anthropology, 1989

Grinnell College, Grinnell, Iowa
B.A., Anthropology, 1984

AREAS OF SPECIALIZATION AND INTEREST

Old World: Near East--Paleolithic, Epipaleolithic, Neolithic; New World: Northwestern Plains; Hunter-Gatherer Adaptations; Paleoecology; Lithic Technology; Some background in parametric and non-parametric statistics

SELECTED GRANTS AND AWARDS

U.S. Bureau of Land Management, *Beaucoup Field School in Montana*, 2010 (\$10,000)
Sabbatical, Montana State University, Spring 2010
Scholarship and Creativity Grant (MSU Office of VP for Research), *Analysis of Natufian Chipped Stone Artifacts from the Wadi Juheira, Jordan*, 2008-09 (\$9,500)
MSU College of Letters & Science Research/Creativity Grant (with Jack Fisher), *Archaeological Excavation and Survey Along the Marias River, Montana*, 2006-07 (\$2,954)
Scholarship and Creativity Grant (MSU Office of VP for Research), *The Origins and Development of Early Agricultural Communities in West-Central Jordan*, 2005-06 (\$19,520)
USIA/ACOR Research Fellowship, 1999 (\$3,162)
National Science Foundation Dissertation Improvement Grant SBR-9406034, 1994 (\$4,650)

SELECTED PUBLICATIONS

Peterson, J.D., M.P. Neeley, J.B. Hill, J. Jones, P. Crawford, A. Kurzawska, N. Sullivan, A. Wasse, and C. White
2010 The Origins and Development of Agriculture in the Wadi al-Hasa Region: 2006 Test Excavations at Khirbet Hammam (WHS 149), TBAS 102, and TBAS 212. *Annual of the Department of Antiquities of Jordan* 54:387-412.

Neeley, M.P.
2010 TBAS 102: A Late Natufian Site in West-Central Jordan. *Neo-Lithics* 1/10:86-91.

Neeley, M.P.

2009 The Late Epipaleolithic: The View from West-Central Jordan. In *Studies in the History and Archaeology of Jordan, Vol. X.*, edited by F. al-Khraysheh, pp.847-852. Amman: Department of Antiquities of the Hashemite Kingdom of Jordan.

Neeley, M.P. and J.D. Peterson

2007 Crossing the Boundary to Domestication Economies: A Case Study from West-Central Jordan. In *Crossing Jordan – North American Contributions to the Archaeology of Jordan*, edited by T.E. Levy, P. M. Daviau, R.W. Younker and M. Shaer, pp. 203-210. London: Equinox Publishing, Ltd

Neeley, M.P.

2007 Lithic Raw Material Availability and Use at the Epipaleolithic Site of Tor al-Tareeq in West-Central Jordan. In *Chert Availability and Prehistoric Exploitation in the Near East*, edited by C. Delage, pp. 204-227. BAR International Series No. 1615. Oxford: John and Erica Hedges.

Neeley, M.P.

2006 Prehistoric Settlement in West-Central Jordan: The Tafila-Busayra Archaeological Survey in its Regional Context. *Bulletin of the American Schools of Oriental Research* 341:1-19.

Roll, T., M.P. Neeley, R. J. Speakman, and M. D. Glascock

2005 Characterization of Montana Cherts by LA-ICP-MS. In *Laser Ablation ICP-MS in Archaeological Research*, edited by R. J. Speakman and H. Neff, pp. 58-74. Albuquerque: University of New Mexico Press.

MacDonald, B., L.G. Herr, M.P. Neeley, T. Gagos, K. Moumani, and M. Rockman

2004 *The Tafila-Busayra Archaeological Survey 1999-2001, West-Central Jordan*. American Schools of Oriental Research Archaeological Reports No. 9. Boston: American Schools of Oriental Research.

Neeley, M.P.

2002 Going Microlithic: A Levantine Perspective on the Adoption of Microlithic Technologies. In *Thinking Small: Global Perspectives on Microlithization*, edited by R.G. Elston and S.L. Kuhn, pp. 45-55. Archeological Papers of the American Anthropological Association No. 12. Arlington, VA: American Anthropological Association.

SELECTED FIELD EXPERIENCE

Project Director, **Beaucoup Field School (MSU)**, Malta, Montana, Duties: instruct students and supervise excavations at the Beaucoup site (24PH188/189), (late prehistoric), July 2010

Co-Project Director, **The Marias River Archaeological Project**, Ft. Benton, Montana, excavation and survey with Dr. J. Fisher (Montana State University), Duties: supervised excavations at the Sparrowhawk site (24CH301), (late prehistoric), July 2006

Co-Project Director, **Origins and Development of Agricultural Communities in West-Central Jordan**, with Dr. Jane Peterson (Marquette University), Duties: planned and supervised excavations at two Natufian sites (TBAS 102 and 212) in the Wadi Juheira, excavation at Pre-Pottery Neolithic site of Khirbet Hammam in the Wadi Hasa (Natufian and Pre-Pottery Neolithic), May-June 2006

Leah Schmalzbauer

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Wilson 2-128
Montana State University
Bozeman, MT 59717

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Fax: 406-994-3177
Schmalzb@montana.edu

EDUCATION

Ph.D., Sociology, Boston College (2004)

M.Sc., Social Policy and International Development, The London School of Economics (1996)

ACADEMIC POSITIONS

Associate Professor of Sociology, Montana State University (2010-)

Assistant Professor of Sociology, Montana State University (2004-2010)

REFEREED JOURNAL ARTICLES

Carling, Jorgen, Cecilia Menjivar & Leah Schmalzbauer. Forthcoming 2012. Central Themes in the Study of Transnational Parenthood. *Journal of Ethnic and Migration Studies*.

Schmalzbauer, Leah. Forthcoming 2011. "Doing Gender," Ensuring Survival: Mexican Migration and Economic Crisis in the New West. *Rural Sociology*.

Schmalzbauer, Leah. 2010. Disruptions, Dislocations, and Inequalities: Latino Families Surviving the Global Economy. *North Carolina Law Review*, 88: 1857-1880.

Schmalzbauer, Leah. 2009. Gender on a New Frontier: Mexican Migration in the Rural Mountain West. *Gender and Society*, 23: 747-767.

Schmalzbauer, Leah. 2008. Family Divided: The Class Formation of Honduran Transnational Families. *Global Networks*, 8:329-346.

Republished in: Adams, Richard, Josh DeWind, Hein de Haas & Una Okonkwa Osili (Eds). 2011. *Migrant Remittances and Development: Research Perspectives*. Social Science Research Council.

Anastario, Mike & Leah Schmalzbauer. 2008. Assessing Gendered Patterns of Time Allocation: The Case of a Honduran Immigrant Community. *Journal of Immigrant and Minority Health*, 10: 437-443.

Dodson, Lisa, Deborah Piatelli, & Leah Schmalzbauer. 2007. Equal authorship. Researching Inequality through Interpretive Collaborations: Shifting Power and the Unspoken Contract. *Qualitative Inquiry*, 13:821-843.

Dodson, Lisa & Leah Schmalzbauer. 2005. Poor Mothers and Habits of Hiding: Participatory Methods in Family Research. *Journal of Marriage and Family*, 67:949-959.

Republished in: Luttrell, Wendy (Ed). 2009. *Qualitative Educational Research: Readings in Reflexive Methodology and Transformative Practice*. New York: Routledge.

Schmalzbauer, Leah. 2005. Transamerican Dreamers: The Relationship of Honduran Transmigrants to the American Dream and Consumer Society. *Berkeley Journal of Sociology*, 49:3-31.

Schmalzbauer, Leah. 2004. Searching for Wages and Mothering from Afar: The Case of Honduran Transnational Families. *Journal of Marriage and Family*, 66:1317-1331.
****2006 Sussman Award for Best Publication-Groves Conference on Marriage and Family**

SPECIAL ISSUE EDITOR: ACADEMIC JOURNAL

Carling, Jorgen, Cecilia Menjivar & Leah Schmalzbauer (Eds). Forthcoming 2012. Transnational Parenting and Children Left Behind. *Journal of Ethnic and Migration Studies*.

BOOK

Schmalzbauer, Leah. 2005. *Striving and Surviving: A Daily Life Analysis of Honduran Transnational Families*. New York: Routledge.

BOOK CHAPTERS

- Schmalzbauer, Leah. 2011. Community Based Research and Immigrant Rights. In Korgen, Kathleen, Jonathon White and Shelley White (Eds). *Sociologists in Action: Sociology, Social Change and Social Justice*. Thousand Oaks, CA:Sage.
- Schmalzbauer, Leah. 2008. Latinos in Minnesota. In Overmyer-Velazquez, Mark (Ed). *Latino America: State-by-State*. Westport, CT:Greenwood.
- Schmalzbauer, Leah, Alice Verghese & Meenu Vadera. 2007. Caring for Survival: Motherwork and Sustainable Feminisms. In Sarker, Sonita (Ed). *Sustainable Feminisms: Advances in Gender Research*. Oxford, UK:Elsevier.
- Dodson, Lisa, Leah Schmalzbauer & Deborah Piatelli. 2006. Behind the Scenes: A Conversation about Feminist Participatory Methods. In Leavy, Patricia & Sharlene Hesse-Biber (Eds). *Feminist Research Practice: A Primer*. New York: Sage.

COMPETITIVE GRANTS AND FELLOWSHIPS**EXTERNAL**

- Schmalzbauer, Leah & Bethany Letiecq. 2008. *Building Community, Struggling for Justice: A Participatory Study of Migrant Needs and Empowerment*. American Sociological Association Community Action Research Initiative: Spivak Program (\$3,000).
- Schmalzbauer, Leah 2007. *Off the Migratory Map: Uncovering Family Survival Strategies in a New Settlement Area*. American Sociological Association/ National Science Foundation Fund for the Advancement of the Discipline (\$5,700).
- Schmalzbauer, Leah 2002. *Transnational Caretaking and Family Well-being: A Daily Life Analysis of Central American Transnational Families*. UNESCO-International Sociological Association Fellowship, PhD Methods Laboratory. Brisbane, Australia.

INTERNAL

- Letiecq, Bethany (Project Leader) & Leah Schmalzbauer (Co-Project Leader) 2010. *The Mental Health of Rural Latino Migrants in a Non-traditional Settlement Area*. National Institute of Health Montana INBRE Program (\$51,193).
- Schmalzbauer, Leah (Project Leader) & Bethany Letiecq (Co-Project Leader) 2009. *The Mental Health of Rural Latino Migrants in a Non-traditional Settlement Area*. National Institute of Health Montana INBRE Program (\$46,897).
- Schmalzbauer, Leah (Project Leader) & Bethany Letiecq (Co-Project Leader) 2008. *Latino Migrants Incorporating in a Non-traditional Settlement Area of the Mountain West: Health Disparities and Challenges to Well-Being*. National Institute of Health Montana INBRE Program (\$19,754).
- Schmalzbauer, Leah 2008. *Family in the Margins: Latino Incorporation and Family Formation in Southwestern Montana*. Montana State University Scholarship and Creativity Grant (\$19,000).
- Schmalzbauer, Leah 2005. *Youth Buying and Family Surviving: Youth Consumption and Transnational Family Well-Being*. Montana State University Buy-Out for Enhancing Scholarship and Teaching (BEST Award).
- Schmalzbauer, Leah 2005. *Youth Buying and Family Survival: Youth Consumption and Transnational Family Well-Being*. Montana State University Scholarship and Creativity Grant (\$11,000).
- Schmalzbauer, Leah & Juliet Schor 2005. *The Commercialization of Childhood*. Montana State University Research Enhancement Award Speakers Program.

Other Interested MSU Faculty

Faculty who provided CVs:

Art

- Josh DeWeese

Cell Biology / Center for Computational Biology

- John Miller

Center for Biofilm Engineering / Chemical Engineering

- Phil Stewart

Chemical and Biological Engineering

- Paul Gannon

Earth Sciences / Montana Institute on Ecosystems

- Cathy Whitlock

English

- Doug Downs

- Phil Gaines

INBRE / Immunology & Infectious Diseases

- Allen Harmsen

Land Resources and Environmental Sciences

- Cliff Montagne

Mathematical Sciences

- Jennifer Luebeck

Mechanical & Industrial Engineering

- David Claudio

Science Math Resource Center

- Irene Grimberg

Western Transportation Institute

- Nic Ward

JOSH DEWEESE

2513 Magenta Rd

Bozeman, Montana 59718

Home Phone: 406-586-9800; Cell 406-431-5521; Email deweese.josh@gmail.com

• EDUCATION

- 1991 New York State College of Ceramics at Alfred University, Alfred, New York. MFA
- 1985 Kansas City Art Institute, Kansas City, Missouri. BFA
- 1980-82 Montana State University, Bozeman, Montana

• PROFESSIONAL EXPERIENCE

- Present **Assistant Professor**, Ceramics Department, Montana State University, Bozeman, MT
- 1992-2006 **Resident Director**, Archie Bray Foundation, Helena, Montana
- 1992 **Ceramics Faculty Affiliate, Foundations Instructor**, Montana State University, Bozeman, MT
- 1988-89, 90 **Resident Artist & Instructor**, Archie Bray Foundation

• SELECTED AWARDS

- 2010 **Scholarship & Creativity Grant**, Office of the Vice President, Montana State University, Bozeman, MT
- 2009 **Faculty Professional Development Grant**, Office of the Provost, Montana State University, Bozeman, MT
- 2007 **Jean Griffith Fellowship**, Pottery Northwest, Seattle, WA
- 2004 **Award Winner, *Form Follows Function***, Juried Exhibition, Lill Street Art Center, Chicago, IL
- 2000 **Jurors Award, *Porcelain 2000***, National Juried Exhibition, Esmay Fine Art, Rochester, NY
- 1999 **Amaco Award, *7th Annual Strictly Functional Pottery National***, Market House Craft Center, Ephrata, PA
- 1998 **Zimmerman, Pfannebecker and Nufort Award Winner, *6th Annual Strictly Functional Pottery National***, MHCC, Ephrata, PA
- 1997 **Montana Arts Council Individual Artist Fellowship Award**, Helena, Montana
Award Winner, *5th Annual Strictly Functional Pottery National*, MHCC, Ephrata, PA
Award Winner, *Feats of Clay X*, Lincoln Arts, Lincoln, CA
- 1992 **Award Winner, "Great Lakes National,"** Lill Street Gallery, Chicago, Illinois
- 1991 **Award Winner, "Anticipation 91,"** New Art Forms Exposition, Navy Pier, Chicago, Illinois
- 1988 **Summer Grant Recipient**, Archie Bray Foundation

• SELECTED EXHIBITIONS

- 2011 **2011 NCECA Biennial**, juried, Tampa Museum of Art, Tampa, Florida
- 2010 ***Conversations, Coincidences, & Motivations***, Invitational, Snyderman Works Gallery, Philadelphia, PA
- 2009 ***Form and Function***, Mindy Solomon Gallery, St Petersburg, FL
Josh DeWeese Featured Artist, AKAR Gallery, Iowa City, IA
- 2008 ***Jean Griffith Fellowship Exhibition***, 2-person exhibition, Pottery Northwest, Seattle, WA
Tactile Poetry; National Biennial Ceramics Invitational, Parkland Art Gallery, Champaign, IL
- 2007 ***Josh DeWeese: Ceramics***, Harvey Meadows Gallery, Aspen, CO
Josh DeWeese & Rosalie Wynkoop Farewell Exhibition, Archie Bray Gallery, Helena, MT
- 2006 ***Josh DeWeese Featured Artist***, AKAR Gallery, Iowa City, IA
- 2005 ***Josh DeWeese-Recent Work***, solo exhibition, Clay Art Center, Port Chester, NY
- 2004 ***Josh DeWeese***, Solo Exhibition, Santa Fe Clay, Santa Fe, NM
- 2002 ***Josh DeWeese, New Work***, Solo Exhibition, Fifth Element Gallery, Portland, OR

- 2001 *Josh DeWeese: 50 Jars*, Holter Museum of Art, Helena, MT
- 2001 *A Ceramic Continuum: Fifty years of the Archie Bray Influence*, exhibition organized by the Holter Museum of Art, Helena, MT, traveling to 13 national venues
- 2000 *14 American Potters Exhibition*, Moegi Gallery, Mashiko, Japan
- 1999 *NCECA Clay National*, Columbus Cultural Arts Center, Columbus, OH

- **SELECTED PROFESSIONAL ACTIVITIES**

- 2008 *Ceramics In Higher Education and its Future: A Symposium*, panelist, East Carolina University, Greenville, NC
- Critically Speaking*, panelist, NCECA Conference, Pittsburgh, PA
- 2006 *Glaze in the Woodkiln*, panelist, International Woodfiring Conference, Flagstaff AZ
- Josh DeWeese*, Demonstrator, NCECA Conference, Portland, OR
- 2005 *International Workshop on Woodfired Ceramics*, Participant, World Ceramics Foundation Biennial, Gwangju, South Korea
- 2004 *2004 NCECA Regional Student Juried Exhibition*, Juror, University of Indianapolis, Indianapolis, IN
- 2003 *Wichita National All Media Craft Exhibition*, Juror, Wichita Center for the Arts, Wichita, KS
- Philadelphia Museum Craft Show*, Juror, Philadelphia Museum of Art, Philadelphia, PA
- McKnight Fellowships*, Juror, Northern Clay Center, Minneapolis, MN
- 1998 *The Content of Function*, Panelist, NCECA Conference, Denver, CO

- **SELECTED WORKSHOPS/VISITING ARTIST PRESENTATIONS**

- 1992-2009 Arrowmont School for Arts and Crafts, Gatlinburg, TN; Peter's Valley Craft Center, Layton, NJ; Anderson Ranch Art Center, Snowmass, CO; University of Nebraska-Lincoln, NE; the University of Manitoba, Winnipeg, Manitoba, Penn State University, State College, PA; New York College of Ceramics at Alfred, Alfred, NY; Haystack Mountain School for the Crafts, Deer Isle, ME; Mesa Art Center, Mesa, AZ; La Meridiana, Tuscany, Italy; Santa Fe Clay, Santa Fe, NM; Hong-ik University, Seoul, South Korea; Chinese Academy of Fine Art, Beijing, China.

- **SELECTED PUBLICATIONS**

- 2008 *500 Platters, Plates, and Chargers*, Linda Arbuckle, Juror, Suzanne J. E. Tourtillot, Lark Books, Asheville, NC, cover
- 2006 *Ceramic Color*, Josh DeWeese, Studio Potter, December, Volume 35 No. 1
- 2005 *Report: International Workshop on Wood-Fired Kilns*, Josh DeWeese, The Log Book, Issue 23, pg. 17-21
- 2002 *Josh DeWeese*, article, Ceramics Monthly, November, pg. 32-33
- 2001 *Josh DeWeese: On the Edge of Alchemy*, Sam Curtis, Big Sky Journal, winter, pg. 40-45
- 2000 *The Content of Function*, Josh DeWeese, The NCECA Journal 2000-Higher Ground, Volume 21(2000)

- **SELECTED PUBLIC COLLECTIONS**

- Arizona State University Ceramic Research Center, Tempe, AZ
- Holter Museum of Art, Helena, MT
- Huntington Museum of Art, Huntington, WV
- Nora Eccles Harrison Museum of Art, Logan UT
- Schein Joseph Museum of Ceramic Art at Alfred University, Alfred, NY
- 3-M Corporate Collection, Minneapolis, MN
- Weisman Museum, Minneapolis, MN
- Yellowstone Art Museum, Billings, MT

John Pratt Miller, Ph.D.

Address: Center for Computational Biology, Montana State University, Bozeman, MT 59717-3505; Phone: (406) 994-7332, e-mail: jpm@cns.montana.edu

Professional Preparation

Ph.D in Biology, Univ. of California, San Diego, 1980

B.A. in Physics, Univ. of California, Berkeley, 1972

Graduate and Postdoctoral Advisors:

Graduate Advisor: Dr. Allen Selverston, U.C. San Diego

Postdoctoral Advisors: Dr. Wilfrid Rall (National Institutes of Health, retired), Dr. John Rinzel, Courant Institute and NYU, New York, New York.

Appointments

1997 to present: Director, Center for Computational Biology, and Professor, Dept. of Cell Biology and Neuroscience, Montana State University, Bozeman.

1996 to 1997: Professor, Dept. of Molecular and Cell Biology, Division of Neurobiology, Univ. of CA, Berkeley.

1989 to June 1996: Associate Professor, Division of Neurobiology, Dept. of Molecular and Cell Biology, Univ. of CA, Berkeley.

1986 to 1989: Associate Professor, Dept. of Zoology, Univ. of CA, Berkeley.

1982 to 1986: Asst. Professor, Dept. of Zoology, Univ. of CA, Berkeley.

1981-1982: Postdoctoral Fellow, Theoretical Neuroscience, National Institutes of Health, Bethesda, MD. (Math Research Branch, NIADDK)

Honors and Awards

MSU College of Letters and Science Distinguished Professor, 2007-2009

Seymour Cray HPC Industry Recognition Award, 1999, one of 26 co-recipients.

Alfred P. Sloan Research Fellowship, 1982-1984.

Service on national and institutional advisory panels

One of 26 Members, President Clinton's Information Technology Advisory Committee (PITAC) 1997 - 2001.

Member, Biology Advisory Committee, Pittsburgh Supercomputer Center, 2000-2008.

Member of Indo-US Computational Neuroscience Working Group, 2001-2004.

Member, Roadmap Panel for Computational Science within NLM and NIGMS, 2003.

Executive Service on editorial boards of scholarly publications and conferences

One of 6 managing editors, *Journal of Computational Neuroscience*, Kluwer, 1994-1999.

Member, Editorial Board, *Journal of Computational Neuroscience*, Kluwer, 1999-present

Member, Editorial Board, *Neurocomputing*, Elsevier, 1999-2003

Service As Officer For Scholarly Conferences

Co-organizer, Workshop on the Mathematical Analysis of Neural Coding, Mathematical Biosciences Institute, Ohio State University, 2003.

Founding Co-chair (with one other), Computational Neuroscience Annual Meetings, 1992-1998.

Executive Service on Academic Committees

Director, Howard Hughes Undergraduate Biology Program, 2002-2006

Chair, Academic Senate Committee on Computing and Communications, U.C. Berkeley, 1990-91

Chair, Graduate Group in Biophysics, U.C. Berkeley, 1992-1994

Teaching Experience

Principal and co-instructor in undergraduate, graduate and medical school lecture courses, undergraduate and graduate laboratory courses in the areas of general Neurobiology, Sensory and Integrative Neurobiology, Electrophysiology, and medical microphysiology.

Thesis Advisor and Postgraduate-Scholar Sponsor**Graduate Students Supervised: (11 total)**

While at U.C. Berkeley: Robert Malinow (Professor, U.C. San Diego), Rocky Nevin (Private industry), Deana Bodnar (Private Industry), Mike Landolfi (University of Florence, Italy), Shai Gozani (Private Industry), Frederic Theunissen (Assoc. Prof., U.C. Berkeley), Jay Levin (Private Industry), Girish

Balasubramanian (Private industry), Leslie Osborne (UCSF),

While at MSU: Zane Aldworth (U.W., Seattle), Jonas Mulder-Rosi (current).

Graduate Students co-Supervised: (4 total)

While at U.C.Berkeley: David Warland (U.C. Davis),

While at MSU: Albert Parker (MSU), Travis Gange (Physician), Bree Cummins (Post-doc)

Postdoctoral Researchers Sponsored: (13 total)

While at U.C.Berkeley: Brent LaMon (Professor, St. Mary's College, Lafayette, CA), John Tromp (University of Toronto), Gwen Jacobs (Professor, MSU), Mark Cooper (Professor, University of Washington), Helen Brew (University of Washington), John Dye, Frederic Theunissen (Assoc. Prof., U.C. Berkeley), Leslie Osborne (UCSF),

While at MSU: Sharon Crook (Assoc. Prof., University of Arizona), Alexander Dimitrov (Asst. Prof., MSU), Hiroto Ogawa (Asst. Prof., Saitama, Japan), Yikun Huang (Asst. Prof., MSU ECE Dept.), Graham Cummins (Research Scientist, U.W.).

Major Research Interest

Cellular and systems neurophysiology: mechanisms of synaptic integration and coding in the nervous system, using experimental and theoretical analysis.

Presentations at Scientific Meetings

Over his 30 year career, Dr. Miller has presented over 100 lectures and seminars at Universities and scientific conferences in the U.S., Canada, England, Germany, France, Spain, Yugoslavia, Australia, Japan, India, and Texas.

Research Support

Dr. Miller has had continuous independent funding since 1981 from NIH, NSF, The Epilepsy Foundation of America, The Bradshaw Foundation, The Murdock Charitable Trust, The Howard Hughes Medical Institute, and The Giles and Elise Mead Foundation. Total career funding on grants for which Dr. Miller was PI or primary Co-PI is approximately \$18M.

Publications:

Recent Refereed Publications:

Miller, J.P., S. Krueger, J. Heys, and T. Gedeon. Quantitative Characterization of the Filiform Mechanosensory Hair Array on the Cricket Cercus. In review.

Aldworth, Z., J. Bender and J.P. Miller. Information Transmission in Cercal Interneurons is Unaffected by Axonal Conduction Noise. In Review.

Dupuy, F., T. Steinmann, D. Pierre, J-P. Christidès, G. Cummins, C. Lazzari, J.P. Miller and J. Casas. Increasing Flow Velocity of Approaching Predators Triggers Escape in Crickets. In review.

Aldworth, Z, A.G. Dimitrov, G.I. Cummins, T. Gedeon, and J.P. Miller (2011). Temporal Coding in a Nervous System. *PLoS Comput Biol* 7(5): e1002041. doi:10.1371/journal.pcbi.1002041

Mulder-Rosi, J., Graham I. Cummins, G.I. and J. P. Miller (2010) The Cricket Cercal System Implements Delay-Line Processing. *J. Neurophysiol.* 103: 1823-1832.

Ogawa H, Cummins GI, Jacobs GA and Miller JP (2006) Visualization of Ensemble Activity Patterns of Mechanosensory Afferents in the Cricket Cercal Sensory System with Calcium Imaging. *J. Neurobiol.* 66: 293-307.

Aldworth, Z, J.P. Miller, T. Gedeon, G.I. Cummins & A.G. Dimitrov (2005). Dejittered Spike-conditioned Stimulus Waveforms Yield Improved Estimates of Neuronal Feature Selectivity and Spike-Timing Precision of Sensory Interneurons. *J. Neuroscience* 25(22): 5323-5332.

Huang, Y. and J.P. Miller (2004) Phased array processing for Spike Discrimination. *J. Neurophysiol* 92: 1944-1957.

Mumey, B., A. Sarkar, T. Gedeon, A. Dimitrov, and J. Miller (2004) Finding Neural Codes using Random Projections. *Neurocomputing* 58: 19-25.

Cummins, G.I., S.M. Crook, A.G. Dimitrov, T. Ganje, G.A. Jacobs and J.P. Miller (2003) Structural and biophysical mechanisms underlying dynamic sensitivity of primary sensory interneurons in the cricket cercal sensory system. *Neurocomputing* 52: 45- 52.

Dimitrov, A.G., J.P. Miller, T. Gedeon, Z. Aldworth and A.E. Parker (2003) Analysis of Neural Coding using Quantization with an information-based distortion measure. *Network: Computation in Neural Systems* 14: 151-176.

Dimitrov, A.G., J.P. Miller, Z. Aldworth and A.E. Parker (2002) Spike pattern-based coding schemes in the cricket cercal sensory system. *Neurocomputing* 44-46: 373-379.

PHILIP SHOOK STEWART

PERSONAL

Address

Center for Biofilm Engineering
Montana State University
Bozeman, Montana 59717-3980

Telephone and E-mail

(406) 994-1960 (Office)
(406) 994-6098 (Fax)
phil_s@biofilm.montana.edu

Family

Spouse: Aimée Morel-Seytoux
Children: Arthur, Silas, Henry

Birth Date and Place

August 30, 1959
Long Beach, California

EDUCATION

Ph.D. Stanford University, Chemical Engineering, September 1988.
M.S. Stanford University, Chemical Engineering, April 1985.
B.S. Rice University, Chemical Engineering, May 1982.

ACADEMIC HONORS

Provost's Award for Undergraduate Research/Creativity Mentoring, 2004
Outstanding Research Award, Dept. of Chemical Engineering, 2003
Cox Faculty Award for Creative Scholarship and Teaching, 2000
MSU Alumni & Bozeman Chamber of Commerce Award of Excellence, 1998
Charles & Nora L. Wiley Faculty Award for Meritorious Research, 1997
NSF Career Award, 1996
Outstanding Faculty Member, Dept. of Chemical Engineering, 1994
Outstanding Teaching Assistant, Dept. of Chemical Engineering, 1986
B.S. degree conferred *summa cum laude*, 1982
Elected to Tau Beta Pi, 1982
Roy Scholar, 1980-82
Elected to Phi Beta Kappa, 1980
Elected to Phi Lambda Upsilon, 1979
James A. and Alice Graham Baker Scholar, 1978-79
Brown Engineering Scholar, 1978-79

PROFESSIONAL EXPERIENCE

2005-present **Director.** Center for Biofilm Engineering, Montana State University, Bozeman, Montana.

2000-present

Professor. Department of Chemical and Biological Engineering, Montana State University, Bozeman, Montana.

1992-present

Biofilm Control/Antimicrobials Research Area Leader. Center for Biofilm Engineering, Montana State University, Bozeman, Montana.

1996-2005

Research Coordinator and Deputy Director (Interim Director 2004-2005). Center for Biofilm Engineering, Montana State University, Bozeman, Montana.

SELECTED PUBLICATIONS

(Total: 140)

Jones, W. L., Sutton, M. P., McKittrick, L., and P. S. Stewart. (2011) Chemical and antimicrobial treatments change the viscoelastic properties of bacterial biofilms. *Biofouling* **27**:207-215.

Folsom, J. P., Richards, L., Pitts, B., Roe, F., Ehrlich, G. D., Parker, A., Mazurie, A., and P. S. Stewart. (2010) Physiology of *Pseudomonas aeruginosa* in biofilms as revealed by transcriptome analysis. *BMC Microbiol* **10**:294.

Stewart, P. S., Davison, W. M., and J. N. Steenbergen. (2009) Daptomycin rapidly penetrates a *Staphylococcus epidermidis* biofilm. *Antimicrob Agents Chemother* **53**:3505-3507.

Stewart, P. S., and M. J. Franklin. (2008) Physiological heterogeneity in biofilms. *Nat Rev Microbiol* **6**:199-210.

James, G. A., Swogger, E., Wolcott, R., Pulcini, E. D., Secor, P., Sestrich, J., Costerton, J. W., and P. S. Stewart. (2008) Biofilms in chronic wounds. *Wound Rep Regen* **16**:37-44.

Rani, S. A., Pitts, B., Beyenal, H., Veluchamy, R. A., Lewandowski, Z., Davison, W. M., Buckingham-Meyer, K., and P. S. Stewart. (2007) Spatial patterns of DNA replication, protein synthesis, and oxygen concentration within bacterial biofilms reveal diverse physiological states. *J Bacteriol* **189**:4223-4233. [cover]

Chambless, J. D., Hunt, S. M., and P. S. Stewart. (2006) A three-dimensional computer model of four hypothetical mechanisms protecting biofilms from antimicrobials. *Appl Environ Microbiol* **72**:2005-2013. [cover]

Fux, C. A., Costerton, J. W., Stewart, P. S., and P. Stoodley. (2005) Survival strategies of infectious biofilms. *Trends Microbiol* **13**:34-40.

Werner, E., Roe, F., Bugnicourt, A., Franklin, M. J., Heydorn, A., Molin, S., Pitts, B., and P. S. Stewart. (2004) Stratified growth in *Pseudomonas aeruginosa* biofilms. *Appl Environ Microbiol* **70**:6188-6196.

Mah, T.-F., Pitts, B., Pellock, B., Walker, G. C., Stewart, P. S., and G. A. O'Toole. (2003) A genetic basis for *Pseudomonas aeruginosa* biofilm antibiotic resistance. *Nature* **426**:306-310.

Stewart, P. S., and J. W. Costerton. (2001) Antibiotic resistance of bacteria in biofilms. *Lancet* **358**:135-138.

Stewart, P. S., McFeters, G. A., and C.-T. Huang. (2000) Biofilm control by antimicrobial agents. In: *Biofilms*, 2nd edition, J. D. Bryers (Ed.). John Wiley & Sons, New York.

Costerton, J. W., Stewart, P. S., and E. P. Greenberg. (1999) Bacterial biofilms: A common cause of persistent infections. *Science* **284**:1318-1322. [cover]

Paul E. Gannon

Curriculum Vitae – September 2011

Education:

Ph.D. Engineering (Chemical)

Jan. 2007

Montana State University, Bozeman, MT

- Dissertation title: “Study of solid oxide fuel cell interconnects, protective coatings and advanced physical vapor deposition techniques”.

B.S. Chemical Engineering

Dec. 2002

Montana State University, Bozeman, MT

- Environmental focus with ancillary coursework in Business Administration and Spanish (Bilingual).
- University Honors Program Degree with Academic Achievement.

Professional Appointments:

Assistant Professor

Aug. 2008 – Present

Chemical and Biological Engineering – Montana State University – Bozeman, MT

Research Assistant Professor

Feb. 2007 – Aug. 2008

Chemical and Biological Engineering – Montana State University – Bozeman, MT

Research Associate

Jan. 2003 – May 2009

Arcomac Surface Engineering, LLC – Bozeman, MT – www.arcomac.com

Graduate Research Assistant

Jan. 2003 – Jan. 2007

Chemical and Biological Engineering – Montana State University – Bozeman, MT

Research Fellow (various undergraduate and post-bachelor terms)

May 2001 – Jan. 2003

Battelle Northwest Division, Pacific Northwest National Laboratory, Richland, WA – www.pnl.gov

Research Activities:

Selected Journal Publications (from >20):

1. R. Amendola, **P.E. Gannon**, B. Ellingwood, P. Piccardo, “Oxidation behavior of coated ferritic stainless steel in dual atmospheres”, Surface and Coatings Technology, *In-Press*
2. V. Gorokhovskiy, **P. Gannon**, J. Wallace, D. VanVorous, C. Bowman, M. Deibert, R. Smith and T. Wittberg, “Evaluation of SOFC interconnects made of ferritic steels with nano-structured oxi-ceramic protective coatings deposited by the LAFAD process” J. of the Electrochemical Society, *In-Press*
3. **P.E. Gannon**, S. Sofie, M.C. Deibert, R.J. Smith and V.I. Gorokhovskiy, “Thin Film YSZ Coatings on Functionally Graded Freeze Cast Anode Supports”, J. of Applied Electrochemistry, 39, 4, 497-502 (2009)
4. **P.E. Gannon**, M. Deibert, V.I. Gorokhovskiy, P. White, R.J. Smith, H. Chen, W. Priyantha and J. Lucas, “Advanced PVD protective coatings for SOFC interconnects”, Int. J. of Hydrogen Energy, 33, 14, 3991-4000 (2008)
5. **P.E. Gannon**, A. Kayani, C.V. Ramana, M.C. Deibert, R.J. Smith and V.I. Gorokhovskiy, “Simulated solid oxide fuel cell interconnect performance of Crofer 22 APU with and without filtered arc Cr-Al-O-N coatings”, Electrochemical and Solid State Letters, 11, 4, B54-B58 (2008)

Past and Present Grants and Contracts:

- National Science Foundation (NSF): International Research Fellowship Program*
- Alexander von Humboldt Foundation Fellowship*
- \$50,000: MT Space Grant Consortium, “Interfacial Stability of Multilayer Nanostructured Thermal and Environmental Barrier Coatings for Aerospace Applications” 6/1/11 – 9/1/12
- \$750,000: NASA EPSCoR, **Co-PI**, “Regenerative solid oxide fuel cell systems for aerospace platforms” 9/1/09 – 8/31/12
- \$400,000: GT Solar, Inc., **PI**, “Corrosion studies of materials in poly-Si reactors”, 8/16/08-Present
- \$80,000: EIP, Int., **Co-PI**, “Nanophase catalysis” 8/1/09-8/31/10 Subcontract from MT State Board of Research and Commercialization Technology Grant
- \$60,000: High Temperature Electrochemistry Center (Hi-TEC) at MSU, **Co-PI**, “Protective coating research and development for solid oxide fuel cell interconnects” 9/1/08-8/31/09
- \$15,000: Miscellaneous Testing Service Contracts, **PI**, 8/16/08 - Present
- \$9,000 Research Travel Grants (2), MSU-Provost 2009

*Declined in lieu of faculty position.

Teaching Activities:

Courses Taught:

ChBE 205CS: Energy and Sustainability: Spring/Fall 2009, 2010, 2011

ChBE 307: Chemical Engineering Thermodynamics I: Fall 2009, 2010, 2011

New Courses Developed

ChBE 205CS: Energy and Sustainability – First offered in Spring 2009

Book: Introduction to Energy, Environment and Sustainability - Preliminary Edition, **Paul Gannon**, Kendall Hunt Publishing, 2011, ISBN 978-0-7575-9117-4

Service Activities:

Professional Membership:

- Minerals, Metals and Materials Society (TMS)
- The Electrochemical Society (ECS)
- Materials Research Society (MRS)
- American Vacuum Society (AVS)

University, College, Department and Student Committees:

1. Campus Sustainability Advisory Council, 2009-Present
2. College of Engineering - Facilities and Resources, 2009-Present
3. Chemical Engineering Scholarship Committee, 2008-Present
4. Network of Environmentally-Conscientious Organizations (NECO), Faculty Advisor, 2009-Present

BIOGRAPHICAL SKETCH: Cathy Whitlock

PROFESSIONAL PREPARATION

Colorado College	Geology	BA, 1975
University of Washington	Geological Sciences	M.S. 1979; Ph.D. 1983
Trinity College Dublin	Quaternary paleoecology	NATO Postdoctoral Fellowship 1983-84

APPOINTMENTS

Current	Director of Interdisciplinary Research Initiatives, VP Office for Research, Creativity, and Technology Transfer; Director, MSU Institute of the Environment (starting Jan 2010); Lead Investigator, NSF WildFIRE Partnership in International Research and Education (2010-2014)
2004-present	Full Professor, Department of Earth Sciences, Montana State University
2000-2004	Full Professor and Department Head, Department of Geography, University of Oregon Courtesy Professor, Department of Geosciences, University of Oregon
1995-2000	Full Professor, Department of Geography, University of Oregon
1990-1995	Associate Professor, Department of Geography, University of Oregon
1988-1990	Assistant Professor, Department of Geology and Earth Science, University of Pittsburgh; Associate Curator, Carnegie Institute, Museum of Natural History
1984-1988	Assistant Curator, Carnegie Institute, Museum of Natural History

SELECTED RECENT PUBLICATIONS

Five most closely related

- Whitlock, C., 2004. Land management: Fire, climate, and landscape response. *Nature* 432: 28-29.
- Whitlock, C., Higuera, P., McWethy, D.M., Briles, C. 2010. Paleoperspectives on fire ecology: revisiting the fire regime concept. *The Open Ecology Journal* 3, 2-23.
- McWethy, D., Whitlock, C., Wilmshurst, J., McGlone, M., and Li, X. 2009. Rapid deforestation of temperate forests in South Island New Zealand by early Polynesian fires. *The Holocene* 19: 883-897.
- Whitlock, C., Bartlein, P.J., Briles, C., Brunelle, A., Long, C., and Marlon, J. 2008. Long-term relations among fire, fuels, and climate in the northwestern U.S. based on lake-sediment studies. *Journal of International Wildfire Research* 17, 72-83.
- Whitlock, C., Moreno, P.I., and Bartlein, P.J. 2007. Climatic controls on Holocene fire activity in southern South America. *Quaternary Research* 68: 28-36.

Five other significant publications

- Whitlock, C., Tinner, W., Newman, L., and Kiefer, T. 2010 [editors]. *Fire in the Earth System: a Paleoperspective*. Special issue of *IGBP Past Global Changes News*, vol 18, no. 2.
- Whitlock, C., and Bartlein, P.J. 2004. Holocene fire activity as a record of past environmental change. In *Developments in Quaternary Science Volume 1* (A. Gillespie and S.C. Porter, eds.), pp. 479-489. Elsevier, Amsterdam.
- Whitlock, C., Shafer, S.H., and Marlon, J. 2003. The role of climate and vegetation change in shaping past and future fire regimes in the northwestern U.S., and the implications for ecosystem management. *Forest Ecology and Management* 178: 5-21.
- Whitlock, C., and Bartlein, P.J. 1997. Vegetation and climate change in northwest America during the past 125 kyr. *Nature* 388: 57-61.
- Marlon, J.R., Bartlein, P.J., Walsh, M.K., Harrison, S.P., Brown, K.J., Edwards, M.E., Higuera, P.E., Power, M.J., Anderson, R.S., Briles, C., Brunelle, A., Carcaillet, C., Daniels, M., Hu, F.S., Lavoie, M., Long, C., Minckley, T., Richard, P.J.H., Scott, A.S., Shafer, D.S., Tinner, W., C. E. Jr. Umbanhowar, C.E., Jr., and Whitlock, C. 2009. Wildfire responses to abrupt climate change in North America. *Proceedings of the National Academy of Sciences*, www.pnas.org/cgi/doi/10.1073/pnas.0808212106.

SYNERGISTIC ACTIVITIES

Professional activities: Chair of the U.S. National Committee for the International Union for Quaternary Research (delegate: 2004-2007, chair 2008-2011); Expert Panel member to develop Geological

Society Position Statement on ClimateChange; Executive Steering Committee member, IGBP-PAGES program (2006-).

Current Member of the following scientific committees: Advisory Board of NOAA Paleoclimatology Databases (North American Pollen Database and International Multiproxy Paleofire Database) (helped establish and obtain funding for IMPD); Science Advisory Board, Centro de Estudios del Cuaternario de Fuego-Patagonia y Antartica (Universidad de Magallanes) and Instituto Milenio(Universidad de Chile); Science Advisory Committee of Global Paleofire Working Group and IGBP Fire Initiative; Yellowstone National Park Science Planning Committee; NEON Core Site Leadership Team; NSF Review Panel for Geography and Spatial Sciences. Also, Past President of American Quaternary Association and Chair, AMQUA Meeting Organizing Committee, 2006, 2010.

Current editorial board service: *Review of Palaeobotany and Palynology*; *Palaeoclimatology*, *Palaeoecology*, & *Palaeogeography*, *Quaternary Research*. Past Editorial Board Member of *Geology*

Curricular and popular science educational activities: Senior Scientist at AIMEs Young Scholars' Network Workshop: Cultural Uses and Impacts of Fire: Past, Present, and Future (2008); Co-organizer, DLESE/NAGT workshops: "Teaching Climate Change" (2006-2010); Instructor, Distance Learning Course on Vegetation History of Pacific Northwest (with Oregon State University); development of materials for Paleoecology Web Page (<http://www.montana.edu/paleoecology/>); Collaborator, NASA Internship Program: Beyond Hayden: Exploration, Inspiration, and Education in Yellowstone; Contributor to *Yellowstone Resources and Issues Handbook*, NPS Research Learning Center website, and Yellowstone interpretative staff training; Science Planning committee, Museum of the Rockies.

Academic and disciplinary service: Department Head, Univ. Oregon (2000-2004); Executive committee, Tenure & Promotion committee, Faculty Search committee MSU Dept. Earth Sciences; MSU Vice-Pres. for Research Advisory committee; NSF ADVANCE Leadership Team at MSU; past member, AAG Biogeog. Specialty Group

COLLABORATORS & OTHER AFFILIATIONS:

R. Anderson (Northern Arizona Univ.); A. Ashworth (North Dakota State Univ.); P. Bartlein (Univ. Oregon); M. Bianchi (CONICET-CRUB); M. Blinnikov (St. Cloud State Univ.); C. Briles (Texas A&M); K. Brown (Geol. Survey Denmark & Greenland); A. Brunelle (Univ. Utah); C. Carcaillet (Univ. Montpellier); M. Daniels (N. Arizona Univ.) W.E. Dean (USGS); M.E. Edwards (Univ. Southampton); S.C. Fritz (Univ. Nebraska); A. Gillespie (Univ. Washington); L. Graumlich (Univ. Washington); S. Gray (Univ. Wyoming); S. Harrison (Univ. Bristol); P. Higuera (Univ. Idaho); F-S. Hu (Univ. Illinois); T. Kiefer (PAGES), K. Kipfmuller (Univ. Minnesota); T. Kitzberger (Univ. Comahue, Arg); A. Lara (Univ. Austral Chile); C. Lavoie (Univ. Laval), X. Li (LandCare Research); J. Littell (Univ. Washington); C. Long (Univ. Wisc-Oshkosh); V. Markgraf (Univ. Colorado); J. Marlon (Univ. Wisc.) M. McGlone (LandCare Research); D. McWethy (Montana State Univ.); T. Minckley (Univ. Wyoming); P. Moreno (Univ. Chile); L. Newman (PAGES); G. Pederson (USGS); K. Pierce (USGS); S. Porter (Univ. Washington); M. Power (Univ. Utah), P. Richard (Univ. Montreal); J. Rosenbaum (USGS); A.S. Scott (Univ. London); S. Shafer (USGS); D.S. Shafer (Desert R. Institute); B. Shuman (Univ. Wyoming); C. Skinner (USDA Forest Service); L. Stevens (CSU-Long Beach); T. Swetman (Univ. Arizona); E. Theriot (Univ. Texas); W. Tinner (Univ. Bern); C. Umbanhowe (St. Olaf College); T. Veblen (Univ. Colorado); M. Walsh (Central Wash. Univ.); J. Williams (Univ. Wisconsin); J. Wilmshurst (LandCare Research); plus other >50 authors on Power et al., 2009, *Climate Dynamics* 30, 887-907.

Graduate and Postgraduate Advisors: E.B. Leopold (Univ. Washington, graduate); W.A. Watts (Trinity College, post-doc); **Graduate Advisees:** E. Berkley (Oregon Museum Sci Industry); M. Blinnikov (St. Cloud State Univ.); C. Briles (Texas A&M); A. Brunelle (Univ. Utah); H. Freifeld (USFWS); D. Firmage (Montana State Univ.); J. Gage (Sonoran Inst.); J. Gardner (Oregon Museum Sci & Ind); K. Hakala (retired); M. Huerta (Montana State Univ.); V. Iglesias (Montana State Univ.); K. Jacobs (Los Alamos NL); M. Knox (Univ. Wisconsin-Oshkosh); L. Kouwenberg (Berkeley); T. Krause (Montana State Univ.); C. Long (Univ. Wisconsin-Oshkosh); J. Marlon (Univ. Oregon); S. Millspaugh (Georgetown Univ.); T. Minckley (Univ. Wyoming); C. Mock (Univ. S. Carolina); J. Mohr (Oregon State Univ.); L. Grigg (Norwich Univ.); S. Mumma (Scripps Inst. Oceanography); C. Pearl (USGS); M. Power (Univ. Utah) S. Shafer (USGS); B. Sherrod (USGS); M. Walsh (Central Wash. Univ.) **Postdoctoral Advisees:** C. Briles (Texas A&M); A. Brunelle (Univ. Utah), C. Long (Univ. Wisconsin-Oshkosh), P. Higuera (Univ. Idaho), D. McWethy (Montana State)

Dr. Doug Downs

Assistant Professor – Rhetoric and Composition

Department of English

Wilson 2-272 / x5193 / doug.downs@msu.montana.edu

Condensed Research C.V.

Profile

Within the field of Rhetoric and Composition (Writing Studies), my research addresses cultural and personal conceptions of writing in electronic writing spaces and in universities. I work most often on student and faculty conceptions of research writing, with a particular focus on undergraduate research and the pedagogy of research writing for college students. In my field I am best known as an instigator of a major new writing pedagogy called *writing about writing*. My research methods are primarily qualitative: interviews, surveys, and critical discourse analysis of written texts. I write textbooks to transform my research findings to teaching materials. I earned my Ph.D. in Rhet/Comp at the University of Utah in 2004.

Publications and Talks (percentages indicate proportion of my contribution on co-authored works)

Book

Writing about Writing: A College Reader. With Elizabeth Wardle. (50%) Bedford/St. Martins: 2011.

CD-ROM

i-Cite: Visualizing Sources. (Interactive CD-ROM.) Bedford/St. Martin's, 2006.

Refereed Articles

"Teaching First Year Writers to Use Texts: Scholarly Readings in Writing-About-Writing in First-Year Comp." *Reader: Essays in Reader-Oriented Theory, Criticism, and Pedagogy* 60 (Fall 2010): 19-50.

"Undergraduate Research on Writing: Benefits to Faculty and Curriculum Development." With ZuZu Feder (66%). *CUR Quarterly* 31.1 (2010): 9-13.

"Writing-About-Writing Curricula: Origins, Theories, and Initial Field-Tests. WPA-CompPile Research Bibliographies, No. 12." WPA-CompPile Research Bibliographies. (Sept. 2010.)

"Teaching About Writing, Righting Misconceptions: (Re)Envisioning FYC as Intro to Writing Studies." With Elizabeth Wardle (50%). *College Composition and Communication* 58 (2007): 552-84.

"Representing Gun Owners: Frame Identification as Social Responsibility in Media Discourse." *Written Communication* 19 (2002): 44-75.

Book Chapters

"Students' Texts Beyond the Classroom: Young Scholars in Writing's Challenges to College Writing Instruction." With Heidi Estrem and Susan Thomas (50%). *Teaching With Student Texts: Essays Toward an Informed Practice*. Ed. Joseph Harris, John Miles, and Charles Paine. Utah State University Press, 2010. 118-28.

"What Can a Novice Contribute? Undergraduate Researchers in First-Year Composition." With Elizabeth Wardle (50%). *Undergraduate Research in English Studies*. Ed. Laurie Grobman and Joyce Kinkead. Utah State University Press, 2010. 173-90.

"Chancing into Altruistic Mentoring." With Dayna Goldstein (50%). *Stories of Mentoring: Theory and Praxis*. Ed. Michelle F. Eble and Lynée Lewis Gaillet. Parlor Press: 2008. 149-52.

"True Believers, Real Scholars, and Real True Believing Scholars: Discourses of Inquiry and Affirmation in the Writing Classroom." *Negotiating Religious Faith in the Writing Classroom*. Ed. Elizabeth VanderLei and Bonnie Kyburz. Longman Boynton/Cook, 2005. 39-55.

Work Under Review

- "Uniform Meets Rhetoric: Excellence Through Interaction." With Angie Ford (50%). Chapter for *Generation Vet: Composition, Veterans, and the Post-9/11 University*.
- "Reimagining the Nature of FYC: Trends in Writing-about-Writing Pedagogies." With Elizabeth Wardle (50%). Chapter for *Exploring Composition Studies: Research, Scholarship, and Inquiry for the Twenty-First Century*, ed. Kelly Ritter. Contract with Utah State University Press, forthcoming 2011.
- "What Faculty Need and Want." With Gregory Young (50%). Solicited chapter for collection to be published by CUR, forthcoming 2011.

Keynotes and Invited Talks

- "Writing About Writing: Origins and Rationales." Keynote Address. Missouri Consortium of the Next Generation Learning Challenge, Cape Girardeau, MO, October 2011.
- "Composition's Futures as Contact Zone for Screen and University Literacies." Keynote Address. Fall Conference of the High Mountain Affiliate of the Council of Writing Program Administrators, Spokane, WA, September 2011.
- "What Happens When Students Read Scholarly Texts for Learning and Research?" Invited Lecture. Texas A&M-Corpus Christi Composition Program, "A Day with Doug Downs." Corpus Christi, TX, 5 Aug. 2011.
- "FYC as Intro to Writing Studies." Florida Symposium on Composition. Florida International University, Miami, Nov. 2007.

Selected Presentations

- "'Omit Unnecessary Words!': Resisting Negative Transfer in Disciplinary Writing with WAW." Accepted for presentation at the Conference on College Composition and Communication, St. Louis, March 2012.
- "'My Normal Approach is Useless Here': xkcd and the Digital Reimagination of Science/Humanities Binaries." Accepted for presentation at the Western States Rhetoric and Literacy Conference, Tempe, AZ, October 2011.
- "Fast Transfer: Observational Research on Undergraduates' Source-Search Practices." Council of Writing Program Administrators Conference, Baton Rouge, LA, July 2011.
- "Contributing at (Institutional) Home: Undergraduate Researchers as Program Developers." Thomas R. Watson Conference, Louisville, KY, October 2010.
- "Undergraduate Research that Shapes Writing Programs and Instruction: Crowdsourcing Institutional Research with First-Year Writing Students." Council of Writing Program Administrators Conference, Philadelphia, PA, July 2010.
- "Rhetorical Analysis as a Methodology of Potential for Undergraduate Research." Rhetoric Society of America bi-annual convention, Minneapolis, MN, May 2010.
- "Finding What to Ask: FYC, Undergrad Research, and the Problem of Expertise." Conference on College Composition and Communication, San Francisco, April 2009.
- "Use-Based Research: The Promise and Challenge of Scalable Undergraduate Research." Council of Writing Program Administrators Annual Conference, Denver, CO, July 2008.

Grants

- 2010 MSU Teaching and Learning Center Instructional Innovation Grant. "Textual Research Practices of Undergraduates Writing with Sources." \$1260
- 2009 MSU Scholarship and Creativity Grant for the Advancement of the Arts, Humanities, and Social Sciences. "Development of Student Authority in Humanities-based Undergraduate Research." \$9000
- 2009 MSU Short Term Professional Development Leave Grant. "Digital Media and Composition Institute." \$4500

Philip Gaines, PhD

Curriculum Vitae

Education

PhD English, University of Washington, 1998 (English Language Studies; Language and Law)
MA Linguistics, 1995 (Prosodic Phonology; Intonation)
MAT English, 1994 (Second Language Acquisition/TESOL)
BA English, 1991 (Expository Writing)

Professional Appointments

Academic

Associate Professor of English	Montana State University	2004-current
Assistant Professor of English		1998-2004

Scholarship [which focuses on linguistic and pragmatic analysis of the discourses of the legal system]

In Print

Journal Articles and Book Chapters/Sections

- 2011 The Multifunctionality of Discourse Operator *Okay*: Evidence from a Police Interview. *Journal of Pragmatics* 44:14 (in press)
- 2011 Writing the Discursive Proto-Culture of Modern Anglo-American Trial Advocacy: Edward William Cox's *The Advocate*. *American Journal of Legal History* 51:2, 333-58.
- 2009 Clear Insurance Policies: A Closer Look at Document Language. *Insurance Journal* 87:21, 32-34.
- 2006 Discourses of the Ideal and the Actual in the Courtroom: The Conflict for Jurors in 'Making Sense' of General Instructions. In Wagner, Anne and William Pencak, eds., *Images in Law*, Aldershot: Ashgate, 159-74.
- 2004 I've Looked at Jobs From Both Sides Now. *ADE Bulletin* 134/135, 25-28.
- 2003 The 'True Lawyer' in America: Discursive Construction of the Legal Profession in the 19th Century. *American Journal of Legal History* 45:2, 132-153.
- 2002 Negotiating Power in the Courtroom: Informal Talk in Sidebar Sessions. *Forensic Linguistics: The International Journal of Speech, Language, and the Law* 9:2, 213-234.
- 2001 Intonation as a Marker of Illocutionary Force in Legal Examination Tag Questions. In Wennerstrom, Ann. *The Music of Everyday Speech: Prosody and Discourse Analysis*. London: Oxford University Press, 160-64.
- 2000 Communicating With Juries: Episodic Structure in Legal Cross Examination. *Tennessee Law Review* 67:3, 599-625.
- 1999 The Discontinuous Intonation Contour: A Case for Rethinking Intonation Contour/Intonation Phrase Isomorphy. *BLS 24: Proceedings of the Annual Meeting of the Berkeley Linguistics Society*. Berkeley: UC-Berkeley Linguistics Society, 69-81.
- 1996 The Grammar of Credibility Assessment: A Functional Analysis of Two Legal Questioning Styles. *Social Semiotics* 6:2, 199-230.

Book Reviews/Notices

- 2011 *Forensic Rhetoric: The Force of Closing Arguments*, by Susanna Shelton Clason. *International Journal of Speech, Language, and the Law* 17:2, 317-21.
- 2009 *Fighting Over Words: Language and Civil Law Cases*, by Roger W. Shuy. *Language: Journal of the Linguistic Society of America* 85:3, 740-43.
- 2003 *The Chicago Guide to Your Academic Career*, by John Goldsmith, John Komlos, and Penny Schine Gold. *The Montana Professor* 14:1, 52-3.
- 1997 *The Intonation Systems of English*, by Paul Tench. *Functions of Language* 4:1, 142-43.

Accepted

Encyclopedia Article (accepted in 2011; to appear Nov 2012)

Roger Shuy [biography]. In Chapelle, Carol (ed.), *The Encyclopedia of Applied Linguistics*. Oxford: Wiley-Blackwell

In Progress

Book

Advocacy Advice in the Adversarial Tradition: The Emergence of Trial Manuals in England 1600-1885

Conference Presentations

- 2011 **International Association of Forensic Linguists Biannual Conference, Birmingham, UK**
The Multifunctionality of Discourse Operator *Okay*: Evidence from a Police Interview
- 2011 **American Association for Applied Linguistics, Chicago, Illinois**
Language in Legal Settings: Sociolinguistic Perspectives Applied (*invited panel discussant*)
- 2010 **West Coast Language and Law Seminar, Missoula, Montana**
Ethos in the Courtroom: Trial Attorney Representations of Themselves and Others
- 2009 **International Association of Forensic Linguists Biannual Conference, Amsterdam, Netherlands**
Three 19th-Century Trial Manuals: Exploring the Discursive Proto-Culture of Anglo-American Trial Advocacy.
- 2007 **International Association of Forensic Linguists Biannual Conference, Seattle, Washington**
Insuring Clarity: Ambiguity in an Exclusions Clause of a Homeowner's Policy.
- 2006 **2nd European International Association of Forensic Linguistics Conference, Barcelona, Spain**
Notes on Trial: Analyzing the Quality of Written Communication Between Deaf People and the Police.
- 2005 **Conference of the International Pragmatics Association, Riva del Garda, Italy**
Strategic Discourses of American Trial Practice: The Rhetoro-Pragmatics of Hiddenness.
- 2004 **World Congress of the International Association for Semiotic Studies, Lyon, France**
The Semiotic Divide in the Epistemology of General Jury Instructions.
- 2003 **International Association of Forensic Linguistics Biannual Conference, Sydney, Australia**
The Ideal vs. the Actual in the Discourse of Trial Evidence.
- 2002 **Law and Society Association Annual Meeting, Vancouver, Canada**
Winning Ways: The Discourse of Attorney Trial Manuals.
- 2002 **Modern Language Association, New York, New York**
I've Looked at Jobs from Both Sides Now.
- 2002 **Western States Composition Conference, Seattle, Washington**
Students' Acquisition of Academic Discourse and the Limits of Analytic Writing Pedagogies.
- 2001 **Western States Composition Conference, Tempe, Arizona**
No-Contact Zone: Developing Multicultural Awareness in the Homogeneous Composition Classroom.
- 2000 **International Conference on Text and Talk at Work, Gent, Belgium**
Negotiating Power in the Courtroom: Informal Talk in Sidebar Sessions in the O.J. Simpson Criminal Trial.
- 2000 **Georgetown University Roundtable on Languages and Linguistics, Washington, DC**
Linguistics and the Law: An Introduction and Sample Analysis.
- 2000 **Northwest Regional Conference of the National Council of Teachers of English, Big Sky, Montana**
Using Models of Academic Discourse in High School Writing Classes.
- 1999 **Conference on Discourses and Learning, Lancaster University, Lancaster, England**
Public/Institutional Versus Private/Partisan Discourse in General Jury Instructions.
- 1999 **International Association of Forensic Linguistics Biannual Conference, Birmingham, England**
'Miss Nicole Brown Simpson': The Re-representation of a Domestic Violence Victim.
- 1999 **American Association for Applied Linguistics, Stamford, Connecticut**
Discursive Conflict in Jury Instructions.
- 1998: **Berkeley Linguistics Society, Berkeley, California**
The Discontinuous Intonation Contour: A Case for Rethinking Intonation Contour/Intonation Phrase Isomorphy.
- 1998 **American Association for Applied Linguistics, Seattle, Washington**
Cross Purposes: Representational Strategy in Adversarial Courtroom Examination.
- 1997 **Conference on College Composition and Communication, Phoenix, Arizona**
Discourse Studies in Composition: A Workshop in Multiple Methods.
- 1997 **Law and Society Association, St. Louis, Missouri**
Contrasting Representational Strategies in the Elicitation of Sworn Testimony.
- 1996 **International Systemic-Functional Congress, Sydney, Australia**
A Case of Questions: Reality-Making in Legal Examination.
- 1995 **International Systemic-Functional Workshop, Valencia, Spain**
The Grammar of Evaluation: Choices in Legal Questioning Styles.
- 1992 **Northwest Linguistics Club, Seattle, Washington**
Motivation for Iambic and Trochaic Bracketings in Alternating Stress Systems

BIOGRAPHICAL SKETCH

NAME Harmsen, Allen G.	POSITION TITLE Professor of Pulmonary Immunology Montana INBRE, Principle Investigator		
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
University of Wisconsin, Stevens Point, WI	B.S.	05/74	Biology
Iowa State University, Ames, IA	Ph.D.	01/80	Immunobiology
University of Vermont, Burlington, VT	Postdoc	01/80-07/81	Pulmonary Immunology

A. Personal Statement

I have a broad background in both immunology of lung infections and lung biology. My interests in lung pathology began with my postdoc at the Vermont Lung Center and continued with my tenure as a scientist at Lovelace Inhalation Toxicology Research Institute. My expertise in immunity to lung infections was developed as a scientist at the Trudeau Institute and has continued here at Montana State University. This dual interest in structure-function relationships in the lung and in lung immunology serves me well as PI of multiple projects. I have had continuous NIH funding for the last 20 years, including being the PI of a P01 and multiple P20 grants.

B. Positions and Honors.

1981-1985 Assistant Professor, Biol. Dept., New Mexico Institute of Mining and Technology, Socorro, NM
 1985-1987 Associate Scientist, Cell Toxicology, Lovelace Inhalation Toxicology Research. Inst., Albuquerque, NM
 1987-2001 Member, Trudeau Institute, Inc., Saranac Lake, NY
 1987-1989 Member of Committee on Pulmonary Biological Markers of the National Research Council
 1995-present Adjunct Professor, Department of Pediatrics, Microbiology and Immunology University of Rochester School of Medicine and Dentistry, Rochester, NY
 1996-2001 Member of NIH-ARRE Study Section
 1998-present Visiting Scientist, Harvard School of Public Health, Boston, MA
 1999-2004 Member, Scientific Advisory Board of Parker B. Francis Family Foundation
 2001-2005 Professor and Head, Veterinary Molecular Biology, Montana State University
 2005-present Professor, Veterinary Molecular Biology, Montana State University
 2003-present Affiliate Professor, Department of Immunology, University of Washington School of Medicine,
 2004-present Member, AAI Veterinary Immunology Committee
 2008-present Chartered Member NIH-AOIC Study Section
 2010-present Member, National Center for Research Resources Clinical and Translational Research Infrastructure in IDeA Program Institutions Advisory Panel
 2010-2011 Meritorious Technology/Science Award, Montana State University

C. Selected peer-reviewed publications (selected from over 100 publications)

1. Wiley, JA, MP Tighe, and **AG Harmsen**. 2005. Upper Respiratory Tract Resistance to Influenza Infection Is Not Prevented by the Absence of either NALT or Cervical Lymph Nodes. *J. Immunol.* 175: 3186-96.
2. Kaiser, CR, ML Flenniken, **AG Harmsen**, AL Harmsen, M A Jutila, T Douglas, and M J Young. 2007. Biodistribution studies of protein cage nanoparticles demonstrate broad tissue distribution and rapid clearance in vivo. *International J. Nanomedicine* 2007;2(4):715-33. PMID: PMC2676807.
3. Wiley, J.A. and Harmsen AG 2008. Pneumocystis Infection Enhances Antibody-Mediated Resistance to a Subsequent Influenza Infection. *J Immunol* 180: 5613-24. PMID: PMC2600725.

4. Haynes, J.R., Dokken L., Wiley J.A., Cawthon A.G., Bigger J., Harmsen A.G., Richardson C. 2009. Influenza-pseudotyped Gag virus-like particle vaccines provide broad protection against highly pathogenic avian influenza challenge. *Vaccine* 27(4): 530-41.
5. Wiley, James A, Richert, Laura E., Swain, Steve, Harmsen, Ann L., Barnard, Dale L., Randall, Troy D., Jutila, Mark A, Douglas, Trevor, Broomell, Chris, Young, Mark, **Harmsen, Allen G.** 2009. Inducible Bronchus-associated Lymphoid Tissue Elicited by a Protein Cage Nanoparticle Enhances Protection in Mice Against Diverse Respiratory Viruses. *PLoS One* Sept 23; 4(9): e7142. PMID: PMC2743193.
6. **Harmsen. A**, K Kusser, L Hartson, M Tighe, MJ Sunshine, J D Sedgwick, Y Choi, DR Littman and T Randall. 2002. Organogenesis of Nasal Associated Lymphoid Tissue (NALT) occurs through mechanisms that bypass the requirement for lymphotoxin- α and retinoic acid receptor-related orphan receptor- γ , (ROR γ). *J. Immunol.* 168:986-990.
7. Roman E, E Miller, **AG Harmsen** , J Wiley, UH von Andrian, G Huston, SL Swain. 2002. CD4 effector T cell subsets in the response to influenza: heterogeneity, migration, and function. *J. Exp. Med.* 196:957-968.
8. Wiley, JA, MP Tighe, and **AG Harmsen.** 2005. Upper Respiratory Tract Resistance to Influenza Infection Is Not Prevented by the Absence of either NALT or Cervical Lymph Nodes. *J. Immunol.* 175: 3186-96.
9. Crowe, SR, SC Miller, DM. Brown, RW Dutton, **AG Harmsen**, FE Lund, TD Randal, SL Swain, DL Woodland. 2006. Uneven distribution of MHC Class II epitopes within the influenza virus. *Vaccine.* 24: 457-67.
10. Moyron-Quiroz, JE, J Rangel-Moreno, L Hartson, MP Tighe, KD Klonowski, L Lefrancois, LS Caughly, **AG Harmsen**, FE Lund, and TD Randall. 2006. Persistence and responsiveness of immunologic memory in the absence of secondary lymphoid organs. *Immunity.* 4:643-54.
11. McNamee, LA and **AG Harmsen.** 2006. Both influenza-induced neutrophil dysfunction and neutrophil-independent mechanisms contribute to increased susceptibility to a secondary *Streptococcus pneumoniae* infection. *Infect. Immun.* 74:6707-21. PMID: PMC1698099.
12. King, Q. O., B. Lei, and **A.G. Harmsen.** 2009. Pneumococcal Surface Protein A Contributes to Secondary *Streptococcus pneumoniae* Infection following Influenza Infection. *J. Infect. Dis.* 200:537–545. PMID: PMC2735857.
13. Pittet, Lynnelle A., Hall-Stoodley ,Luanne, Rutkowski Melanie R., **Harmsen ,Allen G.** 2009. Influenza virus infection decreases tracheal mucociliary velocity and clearance of *Streptococcus pneumoniae*. *Am Journal of Respiratory Cell and Molecular Biology.* June 11. PMID: PMC2848738.
14. Meissner, Nicole, Swain, Steve, McInerney Kate, Han, Soo and **Harmsen, Allen G.** 2010. Type-I-IFN-signaling suppresses an excessive IFN- γ -response and thus prevents lung damage and chronic inflammation during *Pneumocystis* (PC)-clearance in CD-4 competent mice. *Am J Pathology.* (In press.) PMC Journal- in Process.
15. Read, Amanda J., Erickson, Sara, and **Harmsen, Allen G.** 2010. The Role of CD4+ and CD8+ T cells in Clearance of Primary Pulmonary Infection of *Coxiella burnetii*. *Infection and Immunity.* (In press.) PMC Journal- in Process.
16. Steve D. Swain, Nicole Meissner, Soo Han, and **Allen Harmsen.** 2011. *Pneumocystis* infection in an immunocompetent host can promote collateral sensitization to respiratory antigens. *Infection and Immunity.* (In-press) PMC Journal – in Process.
17. Chen Chen, Courtney Dow, Peng Wang, John Sidney, Amanda Read, **Allen Harmsen**, James E. Samuel and Bjoern Peters. 2011. Identification of CD4+ T cell epitopes in *C. Burnetii* targeted by antibody responses. *PLoS One* (in press.)

Clifford Montagne

Professor of Soil Science

Land Resources & Environmental Science Department, Montana State University, Bozeman, MT 59717

Professional Preparation

Dartmouth College, Hanover, New Hampshire, Geology. BS. 1969

Montana State Univ., Bozeman, Montana, Earth Science. MS. 1971

Montana State Univ., Bozeman, Montana, Crop and Soil Science (Soils). PhD. 1976

Publications

Baker, C., R. L. Lawrence, C. Montagne, and D. Patten. 2007. Change detection of wetland ecosystems using landsat imagery and change vector analysis. *Wetlands*. 27:610-619.

Barber, L. M., R. K. D. Peterson, C. Montagne, W. P. Inskeep, and J. J. Schleier III. 2009. A Dietary Risk Assessment for Indigenous Consumption of Natural Salt Deposits in the Darhad Valley, Northern Mongolia. *Human and Ecological Risk Assessment*. 15:5, 907 – 922.

Maxwell, B., J. Johnson, and C. Montagne. 2000. Predicting land use change in and around a rural community. P. 173-188. *In* Hill, M.J. and R. J. Aspinall. *Spatial information for land use management*. Gordon and Breach Scientific Publishers.

McIlroy, S.K., C. Montagne, C. A. Jones and B. L. McGlynn. 2008. Identifying linkages between land use, geomorphology, and aquatic habitat in a mixed-use watershed. *Environmental Management*, Volume 42, Number 5.

Montagne, C. 2000. Forward *In* *Landscapes and communities on the Pacific Rim: Cultural perspectives from Asia to the Pacific Northwest*. Karen K. Gaul and Jackie Hiltz, ed., M. E. Sharpe. ix-xiv.

Rides at the Door, R. and C. Montagne. 1996. Holistic resource management meets native culture. *Winds of Change*. American Indian Science and Engineering Society. 11:4, 136-141.

Sankey, T. S., J. B. Sankey, K. T. Weber, and C. Montagne. 2009. Geospatial assessment of grazing regime shifts and sociopolitical changes in a Mongolian rangeland. *Rangeland Ecol Manage* 62:522–530.

Sindelar, B.W., C. Montagne and R. H. Kroos. 1995. Holistic resource management: An approach to sustainable agriculture on Montana's Great Plains. *Jour. Soil and Water Conserv.* 50:45-49.

Tsagaan Sankey, T., C. Montagne, L. Graumlich, R. Lawrence, and J. Nielsen, 2006. 20th Century forest-grassland ecotone shift and livestock herbivory effects in northern Mongolia. *Forest Ecology and Management* 233:36-44.

Watts, J. D., R. L. Lawrence, P. M. Miller, and C. Montagne. 2009. Monitoring of cropland practices for carbon sequestration purposes in north central Montana by Landsat remote sensing. *Remote Sensing of Environment* 113 (2009) 1843–1852.

Synergistic Activities:

Promoting grass-roots multicultural action research:

I work in Mongolia with the BioRegions Program (www.bioregions.org) to promote collaborative research, education, and service dealing with community health, rural education, environmental quality, and recognition of traditional knowledge. These efforts also extend to Mali, West Africa and to the Greater Yellowstone and northern plains regions. As a leader of one faculty team and a member of another, I work to bridge the gap between isolated rural people and contemporary processes of globalization.

In the Altai Republic of the Russian Federation, I work with a team of Montana State University professors in science education and archeology to develop place-based and culturally appropriate informal learning processes. We collaborate closely with native peoples both in Russia and in the US.

Action Learning

I have developed innovative ways for students in soil science courses to learn from their own experience by having each student select a 'favorite soil' from their own background to use as a course example. I am Co-PI for the USDA CSREES project: New Paradigm for Discovery-Based Learning: Implementing Bottom-Up Development by Listening to Farmers' Needs and Using Participatory Processes and Holistic Thinking. We work with village farmers in Mali and American Indian communities in Montana.

Holistic Management

As a Holistic Management Certified Educator I have developed and taught nearly the only university course on this topic in the US.

CURRICULUM VITAE

Jennifer Lyn Luebeck

Contact Information: (406) 994-5341 ; luebeck@math.montana.edu
Dept. of Mathematical Sciences; 2-214 Wilson Hall, P.O. Box 172400 – MSU; Bozeman, MT 59717-2400

<u>Education:</u>	<u>Year</u>	<u>Degree</u>	<u>Institution</u>	<u>Area of Study</u>
	1998	Ed.D.	Montana State University– Bozeman (MSU)	Secondary Curriculum & Instruction–Mathematics
	1989	M.S.	Montana State University	Mathematics Education
	1982	B.S./B.A.	University of Sioux Falls (SD)	Mathematics/English

<u>Work Experience</u>	<u>Organization</u>	<u>Position</u>
2007-present	Montana State Univ.- Bozeman	Associate Professor, Mathematical Sciences
2001-2007	Montana State Univ.- Bozeman	Assistant Professor, Mathematical Sciences
1998-2001	Univ. of Northern Colorado	Assistant Professor, Mathematical Sciences

My research and grant activities concentrate on developing, delivering, and evaluating professional development in mathematics for practicing K-12 teachers. My particular interests include the development of:

- Programs and frameworks that effectively deliver professional development in mathematics, particularly for isolated rural and beginning teachers
- Models of computer-mediated communication (CMC) that support effective professional development experiences in mathematics

Recent Publications:

Mayes, R., Luebeck, J., Ku, H. et al. (accepted Spring 2011). “Themes and Strategies for Transformative Online Instruction: A Review of Literature and Practice.” Submitted to *Quarterly Journal of Distance Education*.

Yopp, D., Burroughs, E. & Luebeck, J., Heidema, C., Mitchell, A., & Sutton, J. (February 2011). “How to be a wise consumer of coaching: Strategies teachers can use to maximize coaching’s benefits.” To appear in *Journal of Staff Development*.

Lott, J. & Luebeck, J. (2010). “Mathematics Teaching: Putting Research into Practice at All Levels.” Chapter in *Mathematics Teaching: Putting Research into Practice at All Levels*, pp. 1-6. Seventh monograph of the Association of Mathematics Teacher Educators: San Diego, CA.

Burroughs, B. & Luebeck, J. (2009). “Pre-Service Teachers in Mathematics Lesson Study.” *The Montana Mathematics Enthusiast* (7)2-3, pp. 391-400. Charlotte, NC: Information Age Publishing.

Simonsen, L., Luebeck, J., & Bice, L. (2008). “The Effectiveness of Online Paired Mentoring for Beginning Science and Mathematics Teachers.” *Journal of Distance Education* (23)2, pp. 51-68. Burnaby, BC: British Columbia Institute of Technology.

Luebeck, J. (Fall 2008). “Algebraic Reasoning.” Chapter in *Navigating through Reasoning and Proof in Grades 9-12*. National Council of Teachers of Mathematics: Reston, VA.

Simonsen, L., Luebeck, J. & Bice, L. (2007). “Online Paired Mentoring of Rural Science and Mathematics Teachers.” Proceedings of the AACE World Conference on Educational Multimedia, Hypermedia & Telecommunications; pp. 2458-2465.

Luebeck, J. (Fall 2007). “Linking Teachers Online: A Structured Approach to Computer-Mediated Mentoring for Beginning Mathematics Teachers.” Chapter in *The Work of Mathematics Teacher Educators: Continuing the Conversation*. Monograph produced by the Association of Mathematics Teacher Educators: San Diego, CA.

Luebeck, J. (Spring 2006). "When One Shot Is All You've Got—Bringing Quality Professional Development to Rural Mathematics Teachers." *Journal of Mathematics Education Leadership* 9(1), pp. 34-41. National Council of Supervisors of Mathematics: Lakewood, CO.

Luebeck, J. & Bice, L. (Fall 2005). "On-Line Discussion as an Instrument of Conceptual Change among Mathematics and Science Teachers." *Journal of Distance Education*, 20(2), pp. 21-39. University of New Brunswick Libraries: Fredericton, NB.

Funded Proposals:

Submitted August 2011, U.S. Department of Education through Montana Office of Public Instruction; \$130,000; *B&B Lesson Study and STEM in Montana*; (PI with co-PIs Beth Burroughs, Brian Lindaman).

April 2010, 2009, 2008 U.S. Department of Education through Montana Office of Public Instruction; \$150,000; *Broadwater and Bozeman/B&B*; three-year continuation of *Gallatin to Glacier* Project (PI with co-PI Beth Burroughs); July 2008-Sept. 2011.

April 2007; U.S. Department of Education through Montana Office of Public Instruction; \$150,000; two-year continuation of *Creating Opportunities in Mathematics Education for Teachers/COMET* (PI and lead writer with co-PI J. Howard); July 2007-Sept. 2008.

April 2006; U.S. Department of Education through Montana Office of Public Instruction; \$332,000; *Gallatin to Glacier: Middle Grades Mathematics/G2G* (PI and lead writer with co-PIs J. Howard, T. Hodgson); July 2006-Sept. 2008.

June 2004; U.S. Department of Education through Montana Office of Public Instruction; \$550,000; *Creating Opportunities in Mathematics Education for Teachers/COMET* (PI with co-PI J. Howard); June 2004-Sept. 2006.

ADVANCE Leadership Award Grants for Women Faculty; "Enhancing the Secondary Mathematics Education Program through Research"; \$8700; July 2008.

Professional Presentations:

October 2010, "Expanding Mathematics Learning Communities: A Preservice Perspective on Lesson Study"; National Council of Teachers of Mathematics Regional Conference; Denver, CO (with B. Burroughs).

October 2010, "Middle School Misconceptions: Verbal, Visual, and Experiential Miscues and Their Unintended Consequences"; National Council of Teachers of Mathematics Regional Conference; Denver, CO (with B. Burroughs). Also presented October 2010 at Montana Education Association Conference; Helena, MT.

April 2010, "Creating a Professional Learning Community through Coaching"; Annual Meeting of the National Council of Teachers of Mathematics; San Diego, CA (with K. Nelson, B. Burroughs, & D. Yopp).

February 2010, "Recipe for Change: Transforming a Rural District"; Poster for U.S. Department of Education Math and Science Partnerships Conference; San Diego, CA.

January 2010, "Targeted Field Experiences in Lesson Study and Inquiry for Pre-Service Mathematics Teachers" (with B. Burroughs) and "A Mathematics Coaching Research Design" (with D. Yopp and B. Burroughs); Association of Mathematics Teacher Educators Annual Conference; San Diego, CA

February 2009, "The Living Laboratory: Professional Growth for Practicing Teachers through Action Research and Online Learning"; Association of Mathematics Teacher Educators Annual Conference; Orlando, FL.

David Claudio, PhD, PE, CPIM

Assistant Professor of Industrial Engineering
Department of Mechanical and Industrial Engineering
Montana State University
220 Roberts Hall
Bozeman, MT 59717
david.claudio@ie.montana.edu

Objective

Develop a career in a research-oriented academic institution in Industrial and Management Engineering or related field, focused on service systems, healthcare engineering, and decision making.

Education

- Ph.D. Industrial and Manufacturing Engineering** August 2010
The Pennsylvania State University, University Park, PA
Dissertation: Dynamic Vitals Monitoring for Patient Prioritization in the Emergency Department: A Technology Enabled Utility Approach
Advisors: Dr. Andris Freivalds, Dr. Gül E. Okudan Kremer
- M.S. Industrial and Management Engineering** May 2006
Rensselaer Polytechnic Institute, Troy, NY
Thesis: A Simulation Based Analysis of Pull Systems with Advance Demand Information
Advisor: Dr. Ananth Krishnamurthy
- B.S. Industrial Engineering** December 2002
University of Puerto Rico, Mayagüez, PR

Grant Proposals

- Bozeman Deaconess Hospital. Research project title: Chemotherapy Infusion Resource Allocation Model. (2011-2013).
- Bozeman Deaconess Hospital. Research project title: Standard Work Procedures and Compliance in the OR: A Study on How to Implement Standard Work Effectively (2011-2012).
- Pennsylvania Assistive Technology Commercialization Initiative (2008-2010).
- Hal and Inge Marcus Center for Service Enterprise Engineering (2008-2010).

Selected Journal Publications

- Bravo-Llerena, W.E., Claudio, D., and Ramirez-Rivera, J. (2011) 'Hopeful Waiting: Positive Outcome of Patients with Periodical Monitoring of Blood Pressure in an Emergency Department', *Journal of the Medical Association of Puerto Rico*, Vol. 103, No. 3, pp. 18-22.
- Velazquez, M.A., Claudio, D., and Ravindran, A.R. (2010) 'Experiments in Multiple Criteria Selection Problems with Multiple Decision Makers', *International Journal of Operational Research*. Vol. 7, No.4, pp.413-428.
- Claudio, D., Zhang, J., and Zhang, Y. (2010) 'A Simulation Study for a New Hybrid Inventory Control Strategy using Advance Demand Information', *International Journal of Industrial and Systems Engineering*, Vol. 5, No. 1, pp. 1-19.
- Claudio, D., and Okudan, G.E. (2010) 'Utility Function Based Patient Prioritization in the Emergency Department', *European Journal of Industrial Engineering*, Vol. 4, No. 1, pp. 59-77.

Selected Conference Publications

- Claudio, D., Bravo-Llerena, W., Okudan, G.E., and Freivalds, A. (2011) 'Waiting in the Emergency Department: Dynamics of Patients' Vital Signs', *Proceedings of the 2011 Industrial Engineering Research Conference*, Reno, NV.

- Claudio, D., Velazquez, M.A., Bravo-Llerena, W., Okudan, G.E., and Freivalds, A. (2010) 'Usefulness of Wireless Technologies to Improve Emergency Department's Patient Care', *Proceedings of the 2010 Industrial Engineering Research Conference*, Cancun, Mexico.
- Claudio, D., Chen, J., and Okudan, G.E. (2010) 'A Comprehensive Methodology to Generate and Select Design Ideas', *Proceedings of the 2010 Industrial Engineering Research Conference*, Cancun, Mexico.
- Claudio, D., Ricondo, L., Freivalds, A., and Okudan, G.E. (2009) 'Physiological and Descriptive Variables as Predictors for Emergency Severity Index', *Proceedings of the 2009 Industrial Engineering Research Conference*, Miami, FL.

Recent Teaching Experience

- Assistant Professor**, Montana State University Spring 2011- Present
- EIND 422- Introduction to Simulation (Fall 2011)
 - EIND 509- Systems Simulation (Fall 2011)
 - EIND 458- Production and Engineering Management (Spring 2011)
- Lab Instructor, IE 327- Introduction to Work Design**, Penn State University Fall 2009- Spring 2010
- Instructor, IE 405- Linear Programming** Penn State University Spring 2009

Work Experience

- Engineering Design Consulting in Locomotives**, GE Transportation, Erie, PA April -August 2008
- Lean Manufacturing Consultant**, Boston Scientific, Glens Falls, NY July -October 2005
- Organizational Management Leadership Program (OMLP) – Lean Leader**
General Electric, Vega Baja, PR February-June 2004
- OMLP- Quality Engineer**, General Electric, Patillas, PR August 2003-January 2004
- OMLP- Materials and MES Leader**, General Electric, Añasco, PR January-August 2003

Service Experience

- Montana State University IIE Student Chapter advisor (2011-present)
- Montana State University APM Student Chapter advisor (2011-2012)
- Vice-president of the Human Factors and Ergonomics Society, PSU Chapter (August 2009-May 2010).
- Session Moderator, Institute of Industrial Engineers Research Conference (2009).
- Reviewer: Medical Decision Making; International Journal of Industrial Ergonomics; European Journal or Operational Research; Medical Decision Making; Institute of Industrial Engineers Research Conference

Fellowships, Awards and Honors

- Alfred P. Sloan Dissertation Fellowship (2008-2010)
- NASA Space Grant Fellowship (2008-2010)
- National Science Foundation Graduate Research Fellowship Program (2005-2008)
- Recipient of the 2006 Delmar W. Karger Award for best Master thesis in the department of Decision Sciences and Engineering Systems (DSES) at Rensselaer Polytechnic Institute, Troy, NY (2006)
- Alliance for Graduate Education and the Professorate (AGEP) Fellowship (2004)

Skills and Qualifications

- Professional Engineer (PE)
- Certified in production and inventory management (CPIM)
- Fluent in English and Spanish

NAME	POSITION TITLE		
Bruna Irene Grimberg	Associate Research Professor Affiliate Research Scientist		

INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Universidad de Buenos Aires, Argentina	B.A.	1986	Physics
University of Massachusetts, Amherst	Ph.D	1998	Physics
Michigan State University, Lansing	Post-doc	1998-2000	Molecular spectroscopy
Iowa State University, Ames	M.S.	2000-2002	Science Education

A. Positions:

2011-present Affiliate Research Scientist , Physics Department, Montana State University, Bozeman, MT
 2004-present Associate Research Professor, Science and Math Resource Center, Montana State University, Bozeman, MT
 2002-2004 Post-doc, Department of Curriculum and Instruction, Iowa State University, Ames, IA
 1998-2000 Research Associate, Department of Chemistry, Michigan State University, Lansing, MI

Research Interest

Science education focusing on: science online teaching and learning, remote web science laboratories (RWL), the integration of multicultural education principles in science learning and teaching, and in the design and implementation of professional development programs for teachers of Indian American students. My research combines quantitative and qualitative methods.

B. Selected peer-reviewed publications (in chronological order) Five most relevant publications:

Grimberg B. I. and B M. Hand (2009). Progression of students' cognitive involvement in inquiry activities. *International Journal of Science Education*. 31(4), 503-521.

Grimberg B. I. (2008). Promoting High Order Thinking Through the Use of the SWH in *Science Inquiry, Argument and Language: The Case for the Science Writing Heuristic*. Brian Hand (editor). Sense Publishers.

Grimberg, B. I. (2007) Encouraging Transformative Understanding of Controversial Issues. Chapter book in *Methods for Social Studies Methods: What We Do and Why We Do*. Heilman, E. (Ed.) New York: Earlbaum.

Grimberg B. I., V. V. Lozovoy, S. M. Dantus and S. Mukamel. (2001). Femtosecond three pulse spectroscopies in the gas phase: Density Matrix representation. *Journal of Chemical Physics*. Feature Article.

Lozovoy V. V., Grimberg B. I., Pastirk I., and Dantus M. (2001). The role of microscopic and macroscopic coherence in laser control. Special Issue on Laser Control of Quantum Dynamics. *Chemical Physics*. 267 (1-3) 99-114.

C. Synergistic activities:

Grimberg has been an active contributor in regional and national efforts to improve science teachers' preparation in rural settings, undergraduate and graduate education in the science education field, and research on technology-assisted science teaching and learning. These activities include the following:

- Instruction and facilitation of face-to-face, online, and blended professional development programs for science teachers in Native American reservations, rural and suburban settings.
- Online teaching of Physics and Astronomy graduate courses.
- Facilitation of online forums on issues of STEM teaching and learning.
- Coordination of a team of science faculty and teachers leaders of an online science content facilitation program for middle and high school teachers.
- Guidance of doctoral students' dissertations and master theses in the areas of science learning, online education, and teachers' professional development.
- Conduction of educational research related to science learning & teaching, and the dissemination of findings in numerous national and international conferences and peer-review publications.
- Participation in national professional groups (NARST, NSF-MSPnet) as reviewer, conference planner, and working group facilitator.
- Board member of science education initiatives nationwide.

D. Research Support

Ongoing

Project/Proposal Title: Big Sky Science Partnership (Tim Olson, PI)

Source of Support: National Science Foundation

Project Location: Salish Kootenai College (Subaward to Montana State University)

Total Award Amount: \$5,475,263.00

Project/Proposal Title: Science and Inquiry-based Learning in Classrooms (Glenn Allinger, PI)

Source of Support: Office of Public Instruction, State of Montana

Project Location: Montana Learning Center at Canyon Ferry

Total Award Amount: \$675,000.00

NICHOLAS J. WARD

A) Education

Simon Fraser University, Burnaby, BC Canada, Psychology (Social Psychology, Statistics) BS 1987 with Honors
Queen's University, Kingston, ON Canada, Psychology (Human Factors, Organizational Psychology) MS 1990
Queen's University, Kingston, ON Canada, Psychology (Human Factors, Organizational Psychology) PhD 1993

B) Professional Experience

Professor, Department of Mechanical and Industrial Engineering, Montana State University, 2007-present
Senior Research Scientist, Western Transportation Institute, Montana State University, 2007-present
Associate Research Professor, Director of Program for Human Factors Interdisciplinary Research in Simulation and Transportation (HumanFIRST Program), University of Minnesota, 2001-2007
Tenured faculty (Lecturer), School of Psychology and Principal Scientist, Institute for Transport Studies, University of Leeds, 1996-2001
Research Fellow, Human Sciences and Advanced Technology Research Institute Loughborough University of Technology 1993-1996.

C) Ten Relevant Publications

Kuge, N., Yamamura, T., Boer, E.R., Ward, N.J., & Manser, M.P. "Study on driver's car following abilities based on an active haptic support function." *SAE Transactions Journal of Passenger Cars - Electronic and Electrical Systems*, 115(7), 157 – 169 (2007).

Brovold, S., Donath, M., Simons, S., Ward, N. & Shankwitz, N. "In-vehicle Technology to Correct Teen Driving Behavior: Addressing Patterns of Risk." *Journal of Safety Research*, 38, 413 – 422 (2007).

Rakauskas, M., Gugerty, L., & Ward, N.J. "Effects of Cell Phone Conversation on Driving Performance with Naturalistic Conversations." *Journal of Safety Research*, 35, 453-464 (2004).

Ward, N. J., Gorgestani, A., Shankwitz, C., & Donath, M. "A preliminary demonstration study of the usability of a vision enhancement system for state patrol vehicles." *Journal of Intelligent Transportation Systems*, 8, 169-185 (2004).

Bernat, E., Cadwallader, M., Rakauskas, M., Ward, N.J, Collins, P., & Patrick, C.,. "Effects of intoxication on attention allocation in a naturalistic driving environment." *Psychophysiology*, 41, S40 (2004).

Wright, S., Ward, N.J., & Cohn, A.G. "Enhanced presence in driving simulators using autonomous traffic with virtual personalities." *Presence*, 11(6), 578-590 (2002).

Parkes, A.M., Ward, N.J., & Vaughan, G. "A Human Factors evaluation of a novel display and control concept for in-vehicle audio systems: A case study." *International Journal of Vehicle Design*, 26, 339-352 (2001).

Ward, N.J. & Beusmans, J. "Simulation of accident risk displays in motorway driving with traffic." *Ergonomics*, 41, 1478-1499 (1998).

Stapleton, L, Ward, N.J., & Parkes, A.M. "Methodological problems associated with the use of eye movement measuring techniques in evaluation contact analogue Head-Up Displays." In A.G. Gale (Ed.) *Vision in Vehicles 5*, Amsterdam, The Netherlands: Elsevier Press (1996).

Ward, N.J., Parkes, A.M., & Lindsay, P. "The effect of automotive Head-Up Displays on attention to critical events in traffic." In D.J. Garland and M.R. Endsley (Eds.) *Experimental Analysis and Measurement of Situation Awareness*, Florida, US: Embry-Riddle Aeronautical University Press (1995).

D) Synergistic Activities

Research has been the primary emphasis throughout my academic career, with a focus on applied research to improve traffic safety. Given that the World Health Organization expects that traffic crashes will become the third leading cause of fatalities and disability by the year 2020, research to improve traffic safety has significant social value. Toward this goal, my research combines basic and applied science that integrates cognitive and engineering disciplines to analyze crash factors, propose intelligent driver support systems, and evaluate system usability.

I have contributed significantly to the curricula of undergraduate and graduate degree programs in both engineering and human science departments. The central theme of this teaching has been a focus on the psychology of the human user as the central and limiting factor in the engineering design process for usable systems. All of my academic positions have included joint-appointments with research institutes that rely on research staff more than the use of graduate (or undergraduate) students compared with the traditional academic model for supporting research. None-the-less, my research has always included the support and supervision of inter-disciplinary graduate (and under graduate) students within my research program. I have successfully supervised 15 postgraduate degree students including 3 Doctoral theses.

Honors and Awards

Montana State University College of Engineering Excellence in Research Award – Mechanical and Industrial Engineering Department Nominee (2009)

Fellow of the Ergonomics Society (2008)

E) Collaborators

E. Bernat E. Bhargava E. Boer S. Brovold
M. Cadwallader J. Creaser D. deWaard M. Donath
S. S. Gerberich A. Gorjestani G.M. Hoffman A. M. Holleschau
N Kuge J. C. Laberge R. Lawton M. P. Manser
C. Patrick M. E. Rakauskas C. Shankwitz N. Shankwitz
S. Simons P. Smith C.G. Summers M. Waterman
T. Yamamura

Past Graduate Advisors

Professor Gerald Wilde, Queen's University, Canada

Thesis Advisor Last Five Years.

Len Page (current), Shaun Durkee (current), Richard Hoglund (Researcher, ITS Institute, UMN), Shawn Brovold (Product Development Engineer, Ford Motor Co.), Matt Beviaqua (Financial Software Developer, Bloomberg Financial), Amit Chohan (Product Development Engineer, Seagate Technology), Frank Lai (Research Fellow, University of Leeds).

Total Number of Graduate Students Advised: 16 including 4 women.

Appendix D: Inventory of SBE Funded Research at MSU: 2007-2011

Grant	Org	Org Title	Grant Title	Agency	PI	Start Date	End Date	Max Funding	Cat
W3722	412100	Agricultural Economics & Economics	Biodegradable Mulches for Specialty Crops Produced Under Protective Covers	Washington State University	Belasco, Eric J	9/1/2011	8/31/2012	24,834	U
W3641	412100	Agricultural Economics & Economics	Improving Student Understanding of Futures and Options Markets	Montana Wheat & Barley Committ	Brester, Gary W	7/1/2011	6/30/2012	2,500	S
W3597	412100	Agricultural Economics & Economics	Agriculture in an Emerging Economy	Montana Wheat & Barley Committ	Bekkerman, Anton	5/16/2011	12/31/2011	10,000	S
W3463	412100	Agricultural Economics & Economics	FINRA UW Financial Education	FINRA Investor Education Found	Schumacher, Joel B	2/8/2011	12/31/2012	31,125	P
W3435	412100	Agricultural Economics & Economics	Developing Leadership Skills of Youth on the Fort Peck Indian Reservation	Fort Peck Community College	Smith, Vincent H	1/1/2011	9/30/2011	10,000	U
W3311	412100	Agricultural Economics & Economics	The Power of Knowledge: Reducing Informational Barriers and Identifying Value-Added Marketing Opportunities for Montana, Idaho, and Washington Wheat Producers	US Department Of Agriculture	Bekkerman, Anton	9/1/2010	8/31/2012	79,600	F
W3131	412100	Agricultural Economics & Economics	Impact Assessment for the AquaFish CRSP	Oregon State University	Stock, Wendy	1/1/2010	9/29/2011	171,559	U
W2898	412100	Agricultural Economics & Economics	American Consumer Perspectives: A Study of Household Assets & the Decision to Purchase Local Food Products	Chief Dull Knife College	Haynes, George W	7/1/2009	9/30/2011	35,322	U
W2700	412100	Agricultural Economics & Economics	Sequestration and Carbon Credits in the American Indian Farm Plan	Fort Peck Community College	Smith, Vincent H	7/1/2009	6/30/2012	65,320	U
W2611	412100	Agricultural Economics & Economics	Cost-Effective Wind Turbine for Electricity Generation on Small and Mid-Size Farms	Wind Innovations LLC	Schumacher, Joel B	6/15/2009	11/30/2009	10,000	P
W2547	412100	Agricultural Economics & Economics	Current Issues in Renewable Energy in Northern Great Plains	Kansas State University	Brester, Gary W	10/1/2008	12/30/2009	25,000	U
W2503	412100	Agricultural Economics & Economics	Cooperative Agribusiness Management Undergraduate Education Project	CHS Foundation	Brester, Gary W	1/1/2009	12/31/2009	5,000	P
W2366	412100	Agricultural Economics & Economics	Energetic, Economic, and Ecosystem Value of Annual Legumes in Semiarid Wheat-based Agroecosystems	US Cooperative State Research	Bekkerman, Anton	8/15/2008	8/14/2012	59,823	F
W2145	412100	Agricultural Economics & Economics	Consortium for Agricultural Soil Mitigation of Greenhouse Gases	Kansas State University	Antle, John M	1/1/2008	10/15/2008	52,957	U
W1915	412100	Agricultural Economics & Economics	Fort Peck Community College Tribal College Extension Services Program - Extension	Fort Peck Community College	Smith, Vincent H	10/1/2007	9/30/2011	40,000	U
W1914	412100	Agricultural Economics & Economics	Educational Research for Successful Bio-Energy Production on the Fort Peck Indian Reservation - Bio-Diesel Research	Fort Peck Community College	Smith, Vincent H	10/1/2007	9/30/2009	38,473	U
W1913	412100	Agricultural Economics & Economics	Articulating and Addressing the Needs of Socially Disadvantaged Farmers and Ranchers on the Fort Peck Indian Reservation - 2501	Fort Peck Community College	Smith, Vincent H	10/1/2007	9/30/2010	45,000	U
W1912	412100	Agricultural Economics & Economics	Successful Bio-Energy Production on the Fort Peck Indian Reservation	Fort Peck Community College	Smith, Vincent H	10/1/2007	9/30/2008	20,000	U
W1909	412100	Agricultural Economics & Economics	Small Scale Farm Level Alternative Energy Production: Business Plans and Case Studies of Wind Energy and Biodiesel Production	Iowa State University	Brester, Gary W	10/3/2007	10/31/2008	68,543	U
W1895	412100	Agricultural Economics & Economics	Native American Consumer Perspectives: An Exploratory Study of Tribal Assets and Consumer Sentiments	Chief Dull Knife College	Haynes, George W	9/16/2007	9/14/2009	19,205	U
W1872	412100	Agricultural Economics & Economics	Economic Implications of Colony Collapse Disorder	US Department Of Agriculture	Rucker, Randal R	9/26/2007	9/30/2009	28,000	F
W1864	412100	Agricultural Economics & Economics	Strategies for Growth in On-Farm Camelina Production in Montana Agriculture: An Economic Feasibility Assessment	Institute for Biobased Product	Smith, Vincent H	7/1/2007	1/1/2008	8,000	M
W1773	412100	Agricultural Economics & Economics	Annual Report Card on Poverty in Montana Counties	Montana Department of Public H	Haynes, George W	7/1/2007	12/31/2011	179,681	S
W1699	412100	Agricultural Economics & Economics	U.S. D.O. J/Antitrust IPA	US Department Of Justice	Hanssen, Frederick A	9/2/2007	5/31/2008	126,035	F
W1511	412100	Agricultural Economics & Economics	Entrepreneurship Education for Successful Bio Energy Production	Fort Peck Community College	Smith, Vincent H	11/1/2006	12/31/2009	119,335	U

Grant	Org	Org Title	Grant Title	Agency	PI	Start Date	End Date	Max	
								Funding	Cat
W1443	412100	Agricultural Economics & Economics	Prescribed Fire in Riparian Zones Affected by Conifer Expansion: Ecological, Hydrological and Socio-Economic Effects	Utah State University	Buschena, David E	8/15/2006	6/24/2010	90,665	U
W1397	412100	Agricultural Economics & Economics	Risk Management Educ: Avoiding Fractionation/Res. Lands	US Department Of Agriculture	Goetting, Marsha A	8/29/2006	9/30/2008	35,284	F
W1391	412100	Agricultural Economics & Economics	Insuring the Future of Agriculture on American Indian Reservations in the Northern Great Plains	Fort Peck Community College	Smith, Vincent H	10/1/2006	9/30/2007	50,000	U
W1390	412100	Agricultural Economics & Economics	Animal Identification: Benefits and Costs for American Indian Livestock Producers	Fort Peck Community College	Smith, Vincent H	10/1/2006	6/30/2009	36,000	U
W1359	412100	Agricultural Economics & Economics	Risk and Financial Management Education for Socially Disadvantaged and Limited-Resource Farmers and Ranchers	US Department Of Agriculture	Brester, Gary W	9/29/2006	9/28/2007	100,000	F
W1135	412100	Agricultural Economics & Economics	Follow the Grain: Long Term Funding	Montana Wheat & Barley Committ	Buschena, David E	7/1/2006	6/30/2007	20,000	S
W1134	412100	Agricultural Economics & Economics	Follow the Grain: Producer Outreach	Montana Wheat & Barley Committ	Buschena, David E	7/1/2006	6/30/2007	10,000	S
W1121	412100	Agricultural Economics & Economics	Quantifying Recreational Amenities as a Means of Ecologically Sustaining Small and Medium-Sized Farm and Ranch Profitability	US Cooperative State Research	Brester, Gary W	7/1/2006	6/30/2009	295,100	F
W1106	412100	Agricultural Economics & Economics	The Financial Risks of Dying Without a Will in Montana	Washington State University	Goetting, Marsha A	7/1/2006	3/31/2009	42,520	U
W2597	417001	College of Business	Moving Clean Energy Innovations to the Market and Creating Entrepreneurial Learning Opportunities at MSU	NCIIA	Bryant, Scott E	4/1/2009	9/30/2011	24,500	P
W2582	417001	College of Business	ADVANCE Leadership Award - Black	National Science Foundation	Black, Laura J	7/1/2009	6/30/2010	9,934	F
W2283	417001	College of Business	VOSS: Constructing and Modifying Meaning in Complex Projects	National Science Foundation	Black, Laura J	9/1/2008	2/28/2010	100,626	F
WR174	413200	Education	ARRA: Weatherization	Montana Department of Public H	Vogel, Michael P	10/1/2010	9/30/2012	1,171,331	S
WR155	413200	Education	ARRA:MT Weatherization Program	Montana Department of Public H	Vogel, Michael P	4/1/2010	3/31/2012	960,536	S
WR101	413200	Education	ARRA National Tribal Healthy Homes Assessment	US Department of Housing & Urb	Vogel, Michael P	4/15/2009	4/14/2012	873,963	F
W3524	413200	Education	Tribal Renovation Repair & Paint Program Assessments & Training	US Environmental Protection Ag	Vogel, Michael P	4/1/2011	9/30/2011	17,300	F
W3442	413200	Education	College Ready on the Rocky Mountain Front	Office of Commissioner of High	Bangert, Arthur W	1/1/2010	12/31/2011	38,317	S
W3434	413200	Education	Improving IAQ...Moving from Information to Action!	US Environmental Protection Ag	Vogel, Michael P	1/1/2011	1/1/2013	81,000	F
W3424	413200	Education	Source Reduction Assistance Grant Program	US Environmental Protection Ag	Vogel, Michael P	10/1/2010	9/30/2012	52,238	F
W3392	413200	Education	Montana Healthy Homes	Auburn University	Vogel, Michael P	1/1/2010	8/31/2012	8,500	U
W3361	413200	Education	Montana Pollution Prevention Program	US Environmental Protection Ag	Vogel, Michael P	10/1/2010	9/30/2012	92,000	F
W3068	413200	Education	Informal Science Learning in Ecological Contexts: Personal, place-based and cultural views of learning in contrasting mountain systems (Yellowstone Ecosystem, USA & Altai Mountain System, Russian Federation)	National Science Foundation	Brody, Michael J	6/1/2010	5/31/2012	49,544	F
W2996	413200	Education	Assessing Writing to Improve Proficiency for College	Montana Commissioner of Higher	Bangert, Arthur W	2/1/2010	5/31/2011	48,902	S
W2964	413200	Education	WXTV	National Community Action Foun	Vogel, Michael P	2/1/2010	8/31/2011	354,000	P
W2912	413200	Education	HOPWA Program	Montana Department of Public H	Vogel, Michael P	9/1/2009	8/31/2012	22,000	S
W2909	413200	Education	Pollution Prevention Program	US Environmental Protection Ag	Vogel, Michael P	10/1/2009	6/30/2011	82,093	F
W2907	413200	Education	Manufactured Housing Inspection Training	Montana Department of Commerce	Vogel, Michael P	7/1/2009	9/30/2009	8,440	S
W2906	413200	Education	2008 HOPWA Grant Expenses	Montana Department of Public H	Vogel, Michael P	7/1/2008	9/30/2008	5,174	S
W2905	413200	Education	Peaks to Prairies Pollution Prevention Center	US Environmental Protection Ag	Vogel, Michael P	10/1/2009	9/30/2011	216,300	F
W2904	413200	Education	Solid Waste Institute of Montana	Montana Association of Countie	Vogel, Michael P	11/9/2009	6/30/2011	78,400	S
W2771	413200	Education	Montana Home Energy Community of Practice	University of Nebraska Lincoln	Vogel, Michael P	5/4/2009	6/30/2011	11,836	U
W2639	413200	Education	Education and Support Experiences of People with IBD (Crohn's Disease and Ulcerative Colitis) in Montana: Perceptions from Rural Montana	Crohn's and Colitis Foundation	Palmer, Betsy	6/15/2009	8/21/2009	2,500	P
W2637	413200	Education	Archaeological Science for All	National Science Foundation	Brody, Michael J	6/15/2009	5/31/2012	75,000	F
W2588	413200	Education	Camelina Pellet Project	Sustainable Oils	Vogel, Michael P	3/1/2009	12/31/2010	10,000	P
W2530	413200	Education	Assessing Writing to Improve Proficiency for College	Office of Commissioner of High	Herbeck, Mary J	1/15/2009	1/15/2010	35,704	S
W2507	413200	Education	Extension Home Energy Community of Practice	University of Nebraska Lincoln	Vogel, Michael P	1/1/2009	6/30/2011	6,000	U
W2488	413200	Education	USEPA Pollution Prevention Information Network Grant	US Environmental Protection Ag	Vogel, Michael P	10/1/2008	3/31/2010	102,494	F
W2464	413200	Education	Montana Pollution Prevention Program	US Environmental Protection Ag	Vogel, Michael P	10/1/2008	3/31/2010	91,350	F
W2432	413200	Education	Housing Opportunities for Persons with AIDS (HOPWA)	Montana Department of Public H	Vogel, Michael P	10/1/2008	9/30/2011	69,000	S
W2430	413200	Education	Regional Weatherization	Montana Department of Public H	Vogel, Michael P	7/1/2008	6/30/2010	147,434	S

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W2414	413200	Education	Tools and Materials for Hands-on Climate & Weather Science Education	Anasphere Inc	Leonard, Mary J	8/15/2008	6/30/2009	8,250	P
W2292	413200	Education	Montana Healthy Homes	Auburn University	Vogel, Michael P	7/1/2008	6/30/2010	9,500	U
W2291	413200	Education	Help Yourself to a Healthy Home	Auburn University	Vogel, Michael P	7/1/2008	10/31/2009	25,000	U
W2234	413200	Education	Indian Leadership Education and Development (I LEAD) II Year 2	US Department of Education	Ruff, William G	7/1/2008	6/30/2011	812,412	F
W2233	413200	Education	Indian Leadership and Educational Development (I LEAD) Year 3	US Department of Education	Ruff, William G	8/4/2008	8/3/2010	403,088	F
W2231	413200	Education	Montana Math & Science Partnership (MSP) Program Application: Montana Tech Southwest Montana Science Partnership (SMSP)	Montana Tech Of The University	Bangert, Arthur W	7/1/2008	8/31/2012	102,087	S
W2193	413200	Education	The Transition to College for Cohort 5 of the Washington State Achievers Program	Institute for Higher Education	Myers, Carrie B	4/22/2008	12/31/2009	10,000	P
W2157	413200	Education	MT Weatherization Program	Montana Department of Public H	Vogel, Michael P	4/1/2008	3/31/2011	478,527	S
W2059	413200	Education	MSU IEFA Professional Development Implementation Project	Office of Public Instruction	Carjuzaa, Jioanna	3/1/2008	12/1/2008	15,000	S
W2044	413200	Education	Using Early Assessment to Predict Placement and Improve Writing	Montana Commissioner of Higher	Bangert, Arthur W	1/15/2008	5/31/2009	28,092	S
W2029	413200	Education	Lead Poisoning Prevention in Montana	National Center for Healthy Ho	Vogel, Michael P	9/1/2007	9/14/2009	18,000	P
W1954	413200	Education	Regional Weatherization	Montana Department of Public H	Vogel, Michael P	10/1/2007	9/30/2008	49,650	S
W1927	413200	Education	Asbestos and Weatherization Project Evaluation	National Center for Appropriat	Vogel, Michael P	7/15/2007	3/31/2010	77,176	P
W1920	413200	Education	Native AIR (Asthma Intervention & Reduction) Program	US Environmental Protection Ag	Vogel, Michael P	10/1/2007	3/31/2009	65,000	F
W1859	413200	Education	Montana Pollution Prevention Program	US Environmental Protection Ag	Vogel, Michael P	10/1/2007	1/31/2009	91,000	F
W1858	413200	Education	Solid Waste Institute of Montana	Montana Association of Countie	Vogel, Michael P	9/27/2007	6/30/2009	78,400	S
W1806	413200	Education	USEPA Pollution Prevention Information Network Grant	US Environmental Protection Ag	Vogel, Michael P	10/1/2007	6/30/2009	105,323	F
W1797	413200	Education	Collaborative Production, Training and Pilot Testing of a Tribal School Chemical Cleanout Toolkit	US Environmental Protection Ag	Vogel, Michael P	9/10/2007	12/30/2009	24,999	F
W1790	413200	Education	Subcontract for Prototyping the Engineer of 2020: A 360-degree Study of Effective Education	Pennsylvania State University	Palmer, Betsy	9/1/2007	6/3/2010	167,234	U
W1750	413200	Education	"What's In the Can" - Solid Waste Toolkit for Montana Communities	US Department Of Agriculture	Vogel, Michael P	10/1/2007	9/30/2009	95,000	F
W1709	413200	Education	Indian Leadership Education and Development (I LEAD) II	US Department of Education	Ruff, William G	7/1/2007	6/30/2008	369,750	F
W1588	413200	Education	MT Weahterization Program	Montana Department of Public H	Vogel, Michael P	4/1/2007	3/31/2008	107,041	S
W1563	413200	Education	Biobased Processed Engineered Fuels	Institute for Biobased Product	Vogel, Michael P	1/2/2007	7/14/2009	10,820	M
W1559	413200	Education	Montana Teacher Education Institute-Indian Educatio for All	Montana Office of Public Instr	Carjuzaa, Jioanna	4/8/2007	12/31/2007	12,000	S
W1534	413200	Education	Pollution Prevention Information Network Grants Program	US Environmental Protection Ag	Vogel, Michael P	4/2/2007	9/30/2008	103,000	F
W1470	413200	Education	Regional Weatherization Technical Assistance	Montana Department of Public H	Vogel, Michael P	10/1/2006	9/30/2007	38,250	S
W1428	413200	Education	Facilitating a Utah Integrated Toolkit and Support for School Chemical Cleanout	Utah Dept Of Environmental Qua	Vogel, Michael P	9/1/2006	12/31/2006	15,000	O
W1327	413200	Education	Montana Pollution Prevention Program	US Environmental Protection Ag	Vogel, Michael P	10/1/2006	11/30/2007	116,924	F
W1247	413200	Education	Indian Leadership and Educational Development (I LEAD)	US Department of Education	Ruff, William G	8/4/2006	8/3/2008	706,423	F
WR169	413100	Health & Human Development	ARRA: The Ceremony of Research: A collaboration between the Fort Peck Tribes and MSU	National Institute Of Health	Harmesen, Allen G	8/26/2010	8/25/2013	1,000,000	F
WR157	413100	Health & Human Development	ARRA: Montana NAPA CPPW	Montana Department of Public H	Baehr, Ninia	4/4/2010	2/3/2012	196,130	S
WR142	413100	Health & Human Development	ARRA: Pre-School Curriculum Development	Montana Department of Public H	Hancock, Elizabeth P	10/1/2009	9/30/2010	5,750	S
W3735	413100	Health & Human Development	Early Care and Education Career Development - Budget B	Montana Department of Public H	Hancock, Elizabeth P	10/1/2011	12/31/2011	50,000	S
W3734	413100	Health & Human Development	Early Care and Education Career Development - Budget A	Montana Department of Public H	Hancock, Elizabeth P	10/1/2011	12/31/2011	455,229	S
W3720	413100	Health & Human Development	A Physiological and Biomechanical Comparison of Three Backpack Frames During Treadmill Walking	Mystery Ranch Ltd	Heil, Daniel P	8/1/2011	12/31/2011	11,345	P
W3575	413100	Health & Human Development	Early Childhood Education Distance Partnership	US Department of Education	Massey, Laura J	7/1/2011	6/30/2012	396,864	F
W3515	413100	Health & Human Development	Montana Grandparents Raising Grandchildren 2011 Expansion	Brookdale Foundation	Bailey, Sandra J	7/14/2011	5/31/2012	6,000	P
W3447	413100	Health & Human Development	2011 Montana State Lead for the Western Region of the National Farm to School Network	Ecotrust	Stein, Mary J	1/1/2011	12/31/2011	1,500	P

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W3438	413100	Health & Human Development	Improving Participation and Evaluation of Safe Routes to Schools Programs for American Indian Communities	Robert Wood Johnson Foundation	Christopher, Suzanne E	2/1/2011	1/31/2012	49,986	P
W3433	413100	Health & Human Development	The physiological responses to a 5-day ski vacation	Osprey Packs Inc	Seifert, John	1/1/2011	5/31/2011	10,000	P
W3346	413100	Health & Human Development	Supplemental Nutrition Assistance Program - Education (SNAP-Ed) Non-Reservation	Montana Department of Public H	Steele, Douglas L	10/1/2010	9/30/2011	497,517	S
W3345	413100	Health & Human Development	Supplemental Nutrition Assistance Program - Education (SNAP-Ed) Reservation	Montana Department of Public H	Steele, Douglas L	10/1/2010	9/30/2011	278,185	S
W3316	413100	Health & Human Development	Team Nutrition and Training 2010-2012 Grant	Office of Public Instruction	Bark, Katie	9/30/2010	12/31/2012	285,042	S
W3300	413100	Health & Human Development	MT Nutrition and Physical Activity Program	Montana Department of Public H	Baker, Larry J	7/1/2010	6/30/2011	769,035	S
W3285	413100	Health & Human Development	Early Care and Education Career Development - Budget A	Montana Department of Public H	Hancock, Elizabeth P	10/1/2010	9/30/2011	561,942	S
W3284	413100	Health & Human Development	PD Incentives, CDA and Accrediation Scholarships - Budget B	Montana Department of Public H	Hancock, Elizabeth P	10/1/2010	9/30/2011	50,000	S
W2991	413100	Health & Human Development	A Stress Reduction Strategy for Decreasing CVD Risk by Reducing C-Reactive Protein	American Heart Association	Miles, Mary P	1/1/2010	12/31/2011	131,352	P
W2959	413100	Health & Human Development	Innuluaarneq (The Having the Good Life Study)	National Science Foundation	Rink, Elizabeth	1/15/2010	12/31/2011	739,136	F
W2956	413100	Health & Human Development	A Positive Community Norms Approach to Increasing Public Support of Edmonton's Intersection Safety Cameras	City of Edmonton Transportatio	Linkenbach, Jeffrey W	1/1/2010	4/30/2010	27,808	O
W2954	413100	Health & Human Development	Influence of chronic akali water consumption on markers of acid-base status in young healthy adults	Glacier Water Company, LLC	Heil, Daniel P	1/11/2010	12/31/2010	94,059	P
W2929	413100	Health & Human Development	Physiological Stresses of Professional Ski Patrollers	University of Utah	Seifert, John	7/1/2009	6/30/2011	9,977	U
W2888	413100	Health & Human Development	Family Planning Service Delivery	Office of Population Affairs	Rink, Elizabeth	9/1/2009	8/31/2011	405,458	F
W2887	413100	Health & Human Development	Early Care and Education Career Development	Montana Department of Public H	Hancock, Elizabeth P	10/1/2009	9/30/2010	452,692	S
W2886	413100	Health & Human Development	CDA and National Early Childhood Program Accrediation Scholarships	Montana Department of Public H	Hancock, Elizabeth P	10/1/2009	9/30/2010	11,775	S
W2856	413100	Health & Human Development	Lift Off Video	University of California - Los	Baehr, Ninia	6/30/2009	12/31/2009	9,750	U
W2852	413100	Health & Human Development	2009 Team Nutrition Training Grant	Office of Public Instruction	Bark, Katie	10/1/2009	9/30/2011	266,301	S
W2791	413100	Health & Human Development	Supplemental Nutrition Assistance Program Non-Reservation	Montana Department of Public H	Kaiser, Donna Coleen F	10/1/2009	9/30/2010	464,010	S
W2790	413100	Health & Human Development	Supplemental Nutrition Assistance Program Reservation	Montana Department of Public H	Kaiser, Donna Coleen F	10/1/2009	9/30/2010	356,914	S
W2714	413100	Health & Human Development	A Faith-Based Intervention to Increase Physical Activity Among Blacks	Gramercy Research Group	Heil, Daniel P	7/17/2009	4/30/2012	33,702	P
W2686	413100	Health & Human Development	Planned Parenthood of Montana Male Services Research Project	Planned Parenthood	Rink, Elizabeth	5/1/2009	8/31/2011	12,231	P
W2628	413100	Health & Human Development	Family Influences to Prevent Childhood Obesity: An Integrated Research and Outreach Program for Parents of Montana 4-H Youths	USDA CSREES	Paul, Lynn	5/1/2009	4/30/2013	1,496,920	F
W2474	413100	Health & Human Development	Influence of AKALI Bottled Water on Rehydration Following a Dehydrating Bout of Cycling Exercise	Glacier Water Company, LLC	Heil, Daniel P	1/5/2009	12/31/2009	60,894	P
W2343	413100	Health & Human Development	Supplemental Nutrition Assistance Program - Education (SNAP-Ed) - Non-Reservation	Montana Department of Public H	Kaiser, Donna Coleen F	10/1/2008	9/30/2009	369,085	S
W2342	413100	Health & Human Development	Supplemental Nutrition Assistance Program - Education (SNAP-Ed) - Reservation	Montana Department of Public H	Kaiser, Donna Coleen F	10/1/2008	9/30/2009	321,285	S
W2329	413100	Health & Human Development	2008-2010 Montana Team Nutrition Training Grant	Montana Office of Public Instr	Bark, Katie	10/1/2008	9/30/2010	224,882	S
W2325	413100	Health & Human Development	Development, Integration and Assessment of Food and Agricultural Systems Education	US Cooperative State Research	Harmon, Alison	9/1/2008	8/31/2011	490,079	F
W2294	413100	Health & Human Development	CDA and National Early Childhood Progoram Accrediation Scholarships	Montana Department of Public H	Hancock, Elizabeth P	10/1/2008	9/30/2009	25,000	S
W2293	413100	Health & Human Development	Early Care and Education Career Development - Budget A	Montana Department of Public H	Hancock, Elizabeth P	10/1/2008	9/30/2009	425,894	S
W2236	413100	Health & Human Development	MT Nutrition and Physical Activity Program	Montana Department of Public H	Bark, Katie	7/1/2008	6/30/2012	1,601,110	S
W2183	413100	Health & Human Development	FY2008 Food Distribution Program on Indian Reservations (FDPIR) Nutrition Education	Fort Belknap Community Council	Kaiser, Donna Coleen F	7/1/2008	9/30/2008	5,547	P
W2150	413100	Health & Human Development	MYAA Statewide Community Norms Campaign	Missouri's Youth/Adult Allianc	Linkenbach, Jeffrey W	6/1/2008	8/31/2010	192,495	P
W2120	413100	Health & Human Development	MSU Towne's Harvest Garden: Infrastructure, Organization and Marketing Development	Montana Department of Agricult	Harmon, Alison	3/1/2008	2/28/2009	12,000	S
W2085	413100	Health & Human Development	Influence of a Nutrition Supplement on Measures of Anaerobic Upper Body Power in Trained Nordic Skiers	Tamer Laboratories, Inc.	Heil, Daniel P	4/21/2008	12/31/2008	15,468	P

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W1991	413100	Health & Human Development	Dietary and Physical Activity Assessment of Pregnant Montana Women	MSU INBRE	Campbell, Christina G	1/1/2008	4/30/2008	20,000	M
W1893	413100	Health & Human Development	WY Reform the Norm Project	Wyoming Department of Health	Linkenbach, Jeffrey W	10/25/2007	11/18/2010	1,090,654	O
W1870	413100	Health & Human Development	2007-09 Team Nutrition Training Grant	Montana Office of Public Instr	Bark, Katie	10/1/2007	9/30/2009	180,000	S
W1863	413100	Health & Human Development	Food Stamp Nutrition Education - Non-Reservation	Montana Department of Public H	Kaiser, Donna Coleen F	10/1/2007	9/30/2008	411,168	S
W1862	413100	Health & Human Development	Food Stamp Nutrition Education - Reservation	Montana Department of Public H	Kaiser, Donna Coleen F	10/1/2007	9/30/2008	267,048	S
W1851	413100	Health & Human Development	Fort Peck Sexual Health Project	Office of Population Affairs	Rink, Elizabeth	9/30/2007	9/29/2010	317,463	F
W1840	413100	Health & Human Development	Development of Infant Toddler Guidelines Part C	Montana Department of Public H	Hancock, Elizabeth P	10/1/2007	9/30/2009	56,042	S
W1839	413100	Health & Human Development	CDA and Accreditation Scholarships Part B	Montana Department of Public H	Hancock, Elizabeth P	10/1/2007	9/30/2008	25,000	S
W1838	413100	Health & Human Development	Early Care and Education Professional Development A	Montana Department of Public H	Hancock, Elizabeth P	10/1/2007	9/30/2008	342,813	S
W1737	413100	Health & Human Development	IPS San Diego/Tijuana Border Project Year Two	Institute for Public Strategie	Linkenbach, Jeffrey W	7/1/2007	6/30/2008	22,000	P
W1707	413100	Health & Human Development	Early Childhood Education Distance Partnership	US Department of Education	Massey, Laura J	7/1/2007	6/30/2011	1,013,419	F
W1604	413100	Health & Human Development	Youth Suicide Prevention	Montana Department of Public H	Dunnagan, Timothy A	9/30/2006	9/29/2008	50,000	S
W1550	413100	Health & Human Development	ADVANCE Women Into Careers - Miles	National Science Foundation	Miles, Mary P	4/10/2007	6/30/2008	10,613	F
W1549	413100	Health & Human Development	ADVANCE Women Into Careers - Campbell	National Science Foundation	Campbell, Christina G	4/10/2007	4/8/2009	10,613	F
W1501	413100	Health & Human Development	School Wellness - Summer Nutrition Education Project	Office of Public Instruction	Bark, Katie	1/22/2007	6/30/2007	6,000	S
W1496	413100	Health & Human Development	School Wellness	Montana Office of Public Instr	Bark, Katie	10/1/2006	9/30/2007	12,000	S
W1481	413100	Health & Human Development	IPS San Diego/Tijuana Border Project	Institute for Public Strategie	Linkenbach, Jeffrey W	1/1/2007	6/30/2007	22,000	P
W1462	413100	Health & Human Development	Palo Alto Medical Foundation Youth Survey	Palo Alto Medical Foundation	Linkenbach, Jeffrey W	12/15/2006	9/30/2007	31,550	P
W1427	413100	Health & Human Development	Youth First, Inc. Indiana Social Norms Start Up Project	Youth First Inc	Linkenbach, Jeffrey W	10/1/2006	3/30/2008	20,000	P
W1416	413100	Health & Human Development	Amazing Grains SBIR Phase 1	Amazing Grains Cooperative	Stein, Mary J	11/1/2006	12/31/2006	3,125	P
W1398	413100	Health & Human Development	PEACE South Dakota Social Norms Start Up Project	Prevention Education and Commu	Linkenbach, Jeffrey W	10/31/2006	6/30/2007	20,000	P
W1386	413100	Health & Human Development	2006 Montana Team Nutrition Training Grant	Montana Office of Public Instr	Bark, Katie	10/1/2006	9/30/2008	180,000	S
W1377	413100	Health & Human Development	Early Childhood Project Part B	Montana Department of Public H	Hancock, Elizabeth P	10/1/2006	9/30/2007	25,000	S
W1376	413100	Health & Human Development	Early Childhood Project Part A	Montana Department of Public H	Hancock, Elizabeth P	10/1/2006	12/31/2007	342,158	S
W1346	413100	Health & Human Development	Family Business Response to Federal Disaster Assistance	University of Minnesota	Haynes, George W	10/1/2006	9/30/2009	12,990	U
W1340	413100	Health & Human Development	Food Stamp Nutrition Program Non-Reservation	Montana Department of Public H	Dennee, Phyllis M	10/1/2006	9/30/2007	425,044	S
W1339	413100	Health & Human Development	Food Stamp Nutrition Program Reservation	Montana Department of Public H	Dennee, Phyllis M	10/1/2006	9/30/2007	231,222	S
W3624	415600	History and Philosophy	Symbols and Scriptures of Buddha and Jesus	Humanities Montana	Sexson, Lynda	6/6/2011	12/31/2011	1,650	P
W3330	415600	History and Philosophy	Biographies of the The Nation	Great Falls Public School	Rydell, Robert W	9/1/2010	8/31/2013	132,068	O
W2949	415600	History and Philosophy	An Ecology of Nuclear Weapons Testing: Bombs, Bodies, and Environment during the Atmospheric Nuclear Weapons Testing Period in the United States, 1942-1965	National Science Foundation	LeCain, Timothy J	1/15/2010	12/31/2010	9,962	F
W2839	415600	History and Philosophy	John Tyndall and Nineteenth-Century Science	National Science Foundation	Reidy, Michael S	10/1/2009	9/30/2012	579,430	F
W2344	415600	History and Philosophy	World Premiere, My Book and Heart Shall Never Part	Humanities Montana	Sexson, Lynda	9/24/2008	3/16/2009	1,000	S
W2235	415600	History and Philosophy	A History of Animal Exchanges and Displays in Yellowstone	National Science Foundation	Murphy, Mary	8/1/2008	7/31/2010	8,000	F
W1736	415600	History and Philosophy	The West as U.S.	Bozeman School District 7	Rydell, Robert W	7/1/2007	6/30/2010	377,026	O
W1544	415600	History and Philosophy	Technological Symmetry and Hybrid Environments at the Ashio and Anaconda Copper Mines	National Science Foundation	Walker, Brett L	9/1/2007	7/26/2011	305,864	F
W1424	415600	History and Philosophy	My Book and Heart Must Never Part	Montana Committee For The Huma	Sexson, Lynda	10/28/2006	4/21/2008	8,000	S
W2553	415850	Native American Studies	Living Peoples' Histories: Tribal Histories in Montana	Humanities Montana	Herman, Matthew D	3/23/2009	4/9/2009	5,000	S
W2253	415850	Native American Studies	Accreditation Preparation and Site Visit	American Indian Higher Educati	Fleming, Walter C	1/1/2008	12/31/2008	17,970	P
W2063	415850	Native American Studies	The Tribal/Individual Divide Over Undivided Lands: A Comparative Study	National Science Foundation	Ruppel, Kristin T	3/15/2008	6/30/2010	13,962	F
WR131	411600	Nursing Departments	ARRA INBRE Supplemental Holkup	National Institute Of Health	Holkup, Patricia A	9/14/2009	9/23/2011	225,503	F
WR130	411600	Nursing Departments	ARRA INBRE Supplemental Kinion	National Institute Of Health	Kinion, Elizabeth S	9/14/2009	9/23/2011	311,083	F
W3666	411600	Nursing Departments	Refining and Evaluating the MSU CAM Health Literacy Scale	National Institute Of Health	Shreffler-Grant, M J	8/1/2011	4/30/2013	418,471	F
W3664	411600	Nursing Departments	Radon Risk Communication for Native Health	National Institute Of Health	Larsson, Laura S	5/1/2011	4/30/2012	46,643	F
W3657	411600	Nursing Departments	Caring for Our Own Program	Health Resources and Services	Melland, Helen	7/1/2011	6/30/2014	980,405	F
W3573	411600	Nursing Departments	Montana Grant Writing Retreat	University of Maryland	Hill, Wade G	5/16/2011	11/16/2011	11,706	U
W3360	411600	Nursing Departments	Americorps - MSU College of Nursing Great Falls	University of Montana	Raph, Susan J	8/15/2010	8/14/2011	1,417	S
W3260	411600	Nursing Departments	Montana Radon Study	Robert Wood Johnson Foundation	Larsson, Laura S	9/1/2010	8/31/2013	350,000	P
W3142	411600	Nursing Departments	Advanced Education Nursing Traineeships	Health Resources and Services	Williams, Donna A	7/1/2010	6/30/2012	65,028	F
W2953	411600	Nursing Departments	Enhancing Health Literacy of Rural Seniors	University of Washington	Weinert, Clarann	1/15/2010	1/15/2011	11,500	U
W2692	411600	Nursing Departments	Methylmercury Risk, Awareness, and Exposure: Fort Peck Tribal Community and Academic Partnership	Robert Wood Johnson Foundation	Kuntz, Sandra W	9/1/2009	8/31/2012	336,470	P

Grant	Org	Org Title	Grant Title	Agency	PI	Start Date	End Date	Max	
								Funding	Cat
W2685	411600	Nursing Departments	Family Psychiatric Mental Health Nurse Practitioner	Health Resources and Services	Holkup, Patricia A	7/1/2009	6/30/2012	814,021	F
W2623	411600	Nursing Departments	Montana Campus Compact Campus Corps	University of Montana	Raph, Susan J	9/1/2008	8/31/2009	1,113	S
W2388	411600	Nursing Departments	WWAMI Nursing Technology Collaborative	University of Washington	Burg, Glenna R	7/1/2008	6/30/2012	13,432	U
W2373	411600	Nursing Departments	End-of-Life Decision Making and Quality Care for American Indians	Lance Armstrong Foundation	Colclough, Yoshiko Y	1/1/2009	12/31/2011	106,782	P
W2336	411600	Nursing Departments	Enhancing the Health and Well-Being of Rural Elders	US Cooperative State Research	Weinert, Clarann	9/1/2008	8/31/2010	309,409	F
W2332	411600	Nursing Departments	Caring for Our Own: Nursing Education for American Indians	US Department of Health And Hu	Melland, Helen	9/1/2008	8/31/2013	1,747,455	F
W2318	411600	Nursing Departments	Exploring Research Communication and Engagement in a Rural Community: The Libby Partnership Initiative	National Institute Of Health	Winters, Charlene A	9/25/2008	8/31/2011	99,233	F
W2021	411600	Nursing Departments	Shear Stress and Cellular Control of Capillary Function	National Institute Of Health	Williams, Donna A	9/1/2007	7/31/2009	62,791	F
W1953	411600	Nursing Departments	Women to Women Project: Enhancing Self Care	SC Ministry Foundation	Weinert, Clarann	1/1/2008	12/31/2009	80,000	P
W1775	411600	Nursing Departments	ERRNIE: Environmental Risk Reduction for Low Income Families	Washington State University	Hill, Wade G	7/1/2007	7/31/2009	187,366	U
W1702	411600	Nursing Departments	Advanced Education Nursing Traineeship	Health Resources and Services	McNeely, Gretchen A	7/1/2007	8/27/2007	31,296	F
W1700	411600	Nursing Departments	Enhancing Rural Health With Clinical Nurse Leaders	Health Resources and Services	Winters, Charlene A	7/1/2007	6/30/2012	1,103,479	F
W1547	411600	Nursing Departments	Environmental Risks to Rural Low Income Women of Childbearing Age	National Institute Of Health	Hill, Wade G	4/4/2007	3/31/2010	265,205	F
W1360	411600	Nursing Departments	Descriptive Analysis of the Health Status of a National Asbestos-Related Disease Cohort	Health Resources and Services	Winters, Charlene A	9/1/2006	8/31/2009	149,994	F
W1224	411600	Nursing Departments	Rural Chronically Ill Women: Online Support Network	National Institute Of Health	Weinert, Clarann	7/21/2006	5/31/2011	1,221,052	F
W1159	411600	Nursing Departments	CO-OP II: Healthy Futures Through Workforce Diversity	Health Resources and Services	Melland, Helen	7/1/2006	6/30/2010	977,063	F
W3221	415830	Political Science	Science and Community Involvement for Yellowstone National Park Winter Use Environmental Impact Statement & Rulemaking	National Park Service	Lachapelle, Paul R	5/15/2010	12/31/2010	21,655	F
W2585	415830	Political Science	ADVANCE Leadership Award - Young	National Science Foundation	Young, Linda M	7/1/2009	6/30/2010	5,802	F
W2567	415830	Political Science	A Cross-Cultural Conversation: Aristotle, Confucius and Virtue Ethics	Humanities Montana	Rushing, Sara L	4/1/2009	7/1/2009	4,000	S
W2429	415830	Political Science	Promoting Open Agricultural Markets Through Capacity Building in Developing Countries	William and Flora Hewlett Foun	Young, Linda M	11/17/2008	12/31/2010	240,000	P
W1805	415830	Political Science	Promoting Open Agricultural Markets Through Capacity Building in Developing Countries	William and Flora Hewlett Foun	Young, Linda M	6/15/2007	9/3/2009	225,000	P
W1222	415830	Political Science	Promoting Open Agriculture Markets Through Capacity Building in Developing Countries	Washington State University	Young, Linda M	7/1/2006	2/29/2008	176,112	U
W3681	415810	Psychology	Culturally connected communal goals: Latino and Native Americans in Biomedicine	National Institute Of Health	Smith, Jessi L	8/1/2011	5/31/2012	957,240	F
W3395	415810	Psychology	The Mediating Role of Stereotype Threat and Achievement Goals in the Regulation of Scientific Motivation	Louisiana Tech	Smith, Jessi L	12/1/2010	11/30/2014	146,345	U
W3296	415810	Psychology	INBRE II: Meta-Cognitive Influences on Placebo Effect	National Institute Of Health	Handley, Ian M	5/1/2010	4/30/2011	39,563	F
W2848	415810	Psychology	GSE/RES: Supportive Communities: How Gender Impacts the Native American Experience in STEM Fields	National Science Foundation	Smith, Jessi L	2/1/2010	1/31/2013	217,859	F
W2784	415810	Psychology	Barriers to Breastfeeding: How sexual objectification and stigma consciousness influence breastfeeding across the socioeconomic spectrum	National Institute Of Health	Smith, Jessi L	5/1/2009	4/30/2010	40,329	F
W2783	415810	Psychology	INBRE: Identifying Factors that Influence Meta-cognitive Reversals of the Placebo Effect	National Institute Of Health	Handley, Ian M	5/1/2009	4/30/2010	39,138	F
W2583	415810	Psychology	ADVANCE Leadership Award - Smith-Klaphake	National Science Foundation	Smith, Jessi L	7/1/2009	6/30/2010	7,293	F
W3661	415900	Sociology & Anthropology	Hospitals as settings for health care delivery and health disparities	National Institute Of Health	Monahan, Susanne C	5/1/2011	4/30/2012	29,073	F
W3416	415900	Sociology & Anthropology	Group-Differentiated Curricula at Minority-Serving and Women's Colleges	Spencer Foundation	Cole, Wade M	1/1/2011	8/11/2011	26,350	P
W3343	415900	Sociology & Anthropology	Project Archaeology Leadership Academy	Bureau Of Land Management	Neeley, Michael P	10/1/2009	9/30/2014	32,000	F
W3264	415900	Sociology & Anthropology	Cultural Resources Education and Protection	Bureau Of Land Management	Neeley, Michael P	9/19/2009	9/18/2012	79,000	F
W3175	415900	Sociology & Anthropology	Beaucoup Field School in Montana	Bureau Of Land Management	Neeley, Michael P	6/1/2010	8/31/2012	10,000	F
W3122	415900	Sociology & Anthropology	Understanding Racial Disparities in Teen Methamphetamine Use	National Institute Of Health	Eittle, David J	6/1/2010	5/31/2012	140,363	F
W3108	415900	Sociology & Anthropology	INBRE II: Hospitals as Health Care Delivery Systems and Health Disparities	National Institute Of Health	Monahan, Susanne C	5/1/2010	4/30/2011	63,004	F

Grant	Org	Org Title	Grant Title	Agency	PI	Start Date	End Date	Max	
								Funding	Cat
W3092	415900	Sociology & Anthropology	Tongue River Breaks and Horseshoe Cave - Archaeological, Ethnographic and Historical Context Study	USDA Forest Service	Fisher, John W	5/19/2010	12/31/2014	25,086	F
W3057	415900	Sociology & Anthropology	Develop Shelter Curriculum for Project Archeology Partnership - Kingsley Shelter Investigation	National Park Service	Neeley, Michael P	5/1/2010	9/30/2011	15,579	F
W2938	415900	Sociology & Anthropology	Cultural Resources Education and Protection	Bureau Of Land Management	Neeley, Michael P	9/16/2009	9/18/2012	26,000	F
W2916	415900	Sociology & Anthropology	Project Archaeology Leadership Academy	Bureau Of Land Management	Neeley, Michael P	10/1/2009	8/1/2014	32,000	F
W2777	415900	Sociology & Anthropology	Overland Pass Piceance Basin Lateral Pipeline Archaeology Education Project	Overland Pass Pipeline Company	Neeley, Michael P	6/1/2009	12/31/2011	14,391	P
W2619	415900	Sociology & Anthropology	Hospitals as Health Care Delivery Systems and Health Disparities	MSU INBRE	Monahan, Susanne C	5/1/2009	4/30/2010	33,980	M
W2408	415900	Sociology & Anthropology	Latino Migrants Incorporating in a Non-traditional Settlement Area in the Mountain West	MSU INBRE	Schmalzbauer, Leah	11/1/2008	4/30/2009	19,803	M
W2195	415900	Sociology & Anthropology	Project Archaeology Institute for Teachers	Bureau Of Land Management	Fisher, John W	7/8/2008	6/13/2011	20,000	F
W2136	415900	Sociology & Anthropology	Archaeological Excavation at Horseshoe Cave (24RB1094)	Montana Historical Society	Fisher, John W	4/1/2008	12/31/2009	5,500	S
W2135	415900	Sociology & Anthropology	Site Stewardship in Montana	Bureau Of Land Management	Fisher, John W	5/28/2008	6/1/2013	141,000	F
W2121	415900	Sociology & Anthropology	Ethno-Etiologies of Health and Disease Among Marshall Islanders in Hawaii	MSU INBRE	Carucci, Laurence M	5/1/2008	10/14/2008	10,000	M
W2064	415900	Sociology & Anthropology	Advancing a New Research Agenda Through Collaboration, Networking, and Mentoring	National Science Foundation	Eitle, Tamela L	7/1/2008	7/23/2010	12,439	F
W1965	415900	Sociology & Anthropology	Kanda Lateral Project Archaeology Education Project	Metcalf Archaeological Consult	Roll, Thomas E	1/10/2008	12/1/2009	21,587	P
W1712	415900	Sociology & Anthropology	Fort Meade Project Archaeology Project	Bureau Of Land Management	Neeley, Michael P	4/22/2008	6/30/2012	32,500	F
W1688	415900	Sociology & Anthropology	Staff Expansion in Japan Studies (Anthropology)	Japan Foundation	Myers, Scott M	7/1/2007	6/28/2010	91,172	P
W1551	415900	Sociology & Anthropology	ADVANCE Women Into Careers - Quinn	National Science Foundation	Quinn, Beth A	4/10/2007	6/30/2009	3,396	F
W1217	415900	Sociology & Anthropology	REX Entrega and Project Archaeology Education Project	El Paso Corporation	Roll, Thomas E	7/27/2006	6/30/2010	24,570	P
W1213	415900	Sociology & Anthropology	REX Entrega and Project Archaeology Education Project	Alpine Archaeological Consulta	Roll, Thomas E	7/27/2006	6/30/2010	24,570	P

College of Agriculture

	2001-02	2002-03‡	2003-04	2004-05*	2005-06	2006-07	2007-08	2008-09#	2009-2010	2010-2011	Weighted Avg % Change /Yr (5 years)	5 year % change	10 year % change
Expenditures	2,770,482	2,896,795	2,964,789	3,080,979	3,188,464	3,306,500	3,372,208	3,466,909	3,622,976	3,541,411	1.5%	7.1%	27.8%
Faculty FTE	38.4	45.6	40.6	39.7	41.3	40.9	36.0	39.0	37.9	37.0	-1.5%	-9.4%	-3.5%
TTT Fac FTE				35.6	36.1	37.3	30.2	32.8	31.9	32.9	-0.3%	-11.9%	
% Tenure Track	80%	75%	81%	90%	88%	91%	84%	84%	84%	89%	1.1%	-2.7%	11.3%
GTA FTE	2.7	29.5	16.0	13.5	11.5	6.0	8.0	16.0	14.5	11.5	11.9%	91.7%	326.2%
SCH Lower	11,667	12,254	12,397	13,827	13,515	13,473	13,572	13,955	13,664	14,636	2.5%	8.6%	25.4%
SCH Upper	8,867	9,264	8,897	9,172	8,811	8,401	8,708	8,691	8,734	9,158	1.9%	9.0%	3.3%
SCH Grad	1,620	1,999	1,833	1,962	1,936	1,974	1,818	1,855	1,737	1,781	-1.4%	-9.8%	9.9%
Total FY SCH	22,154	23,517	23,127	24,961	24,261	23,848	24,098	24,501	24,135	25,575	2.0%	7.2%	15.4%
Univ Seminar SCH				411	336	351	306	297	324	417	10.0%	18.8%	
Research SCH				251	434	538	514	644	593	666	8.1%	23.8%	
% Taught by Ten Track													
SCH Lower	54%	48%	51%	81%	52%	72%	63%	50%	67%		6.1%	29.4%	
Sections Lower	73%	66%	75%	85%	70%	88%	69%	68%	75%		1.0%	7.2%	
Total SCH/ Faculty FTE	577.3	515.4	569.2	629.2	587.5	583.1	670.1	628.2	636.3	690.5	3.9%	18.4%	19.6%
w/ GTAs	539.4	313.0	408.4	469.4	459.5	508.5	548.2	445.5	460.3	526.9	3.7%	3.6%	-2.3%
Undergrad FY FTE	684.5	717.3	709.8	766.6	744.2	729.1	742.7	754.9	746.6	793.1	2.2%	8.8%	15.9%
Graduate FY FTE	67.5	83.3	76.4	81.8	80.7	82.2	75.8	77.3	72.4	74.2	-1.4%	-9.8%	9.9%
Total FY FTE	752.0	800.6	786.2	848.4	824.8	811.4	818.4	832.1	819.0	867.3	1.9%	6.9%	15.3%
Expend/Student FTE	3,684	3,618	3,771	3,632	3,866	4,075	4,120	4,166	4,424	4,083	-0.2%	0.2%	10.8%
StudFTE/FacultyFTE	19.6	17.5	19.4	21.4	20.0	19.8	22.8	21.3	21.6	23.4	3.8%	18.0%	19.5%
w/ GTAs	18.3	10.7	13.9	16.0	15.6	17.3	18.6	15.1	15.6	17.9	3.6%	3.3%	-2.4%
Fresh/Soph Majors	317	340	326	340	327	298	261	306	348	407	10.5%	36.6%	28.4%
Jr/Sr/PostBach Majors	405	412	415	420	388	372	369	367	361	383	1.1%	3.0%	-5.4%
Second Majors	10	11	13	17	19	31	16	29	26	25	10.0%	-19.4%	150.0%
Graduate Majors	133	144	152	145	133	130	127	129	118	125	-0.4%	-3.8%	-6.0%
Total Majors	865	907	906	922	867	831	773	831	853	940	4.4%	13.1%	8.7%
Majors/Faculty FTE	22.5	19.9	22.3	23.2	21.0	20.3	21.5	21.3	22.5	25.4	6.1%	24.9%	12.6%
Bachelor's Degrees	163	169	150	171	163	150	135	146	147	144	-0.7%	-4.0%	-11.7%
Masters/Spec Degrees	34	34	42	36	23	36	22	33	28	18	-7.4%	-50.0%	-47.1%
Doctoral Degrees**				5	7	3	6	11	7	8	21.3%	166.7%	
Total	197	203	192	212	193	189	163	190	182	170	-2.0%	-10.1%	-13.7%

*SCH, FTE, and university seminar counts, and ratios based upon them, changed in FY05 to consistently follow the instructor's appointment rather than the subject code.

‡ Faculty FTE and % Tenure Track calculations changed in FY03 from budgeted FTE to Fall actuals. Graduate FTE assumes each headcount graduate assistant paid through program 01 is .5

Excludes benefits expenditures

**Graduate degrees were aggregated prior to 2004-05 and shown in the masters line.

Agricultural Economics and Economics

	2001-02	2002-03‡	2003-04	2004-05*	2005-06	2006-07	2007-08	2008-09#	2009-2010	2010-2011	Weighted Avg % Change /Yr (5 years)	5 year % change	10 year % change
Expenditures	843,382	842,812	884,483	938,627	969,762	1,054,657	985,426	1,167,270	1,238,311	1,091,510	1.1%	3.5%	29.4%
Faculty FTE	10.4	14.7	12.2	12.5	11.4	11.8	10.8	11.7	11.3	10.5	-2.5%	-11.0%	1.4%
TTT Fac FTE				10.8	9.9	10.8	8.0	8.8	9.7	8.5	-2.0%	-20.9%	
% Tenure Track	83%	75%	73%	87%	87%	92%	74%	75%	86%	81%	0.3%	-11.1%	-2.4%
GTA FTE	0.8	2.0	2.0	2.5	2.5	2.5	2.5	3.5	3	2.5	-1.4%	0.0%	202.7%
SCH Lower	7,164	7,002	7,089	6,948	7,121	6,947	6,901	7,026	6,666	6,667	-1.3%	-4.0%	-6.9%
SCH Upper	2,315	2,519	2,265	2,155	2,257	2,277	2,253	2,319	2,233	1,944	-4.8%	-14.6%	-16.0%
SCH Grad	140	138	164	246	193	235	311	257	289	236	-0.5%	0.4%	68.6%
Total FY SCH	9,619	9,659	9,518	9,349	9,571	9,459	9,465	9,602	9,188	8,847	-2.2%	-6.5%	-8.0%
Univ Seminar SCH				0	0	0	0	0	0	0			
Research SCH				145	129	131	144	164	123	126	-1.6%	-3.8%	
% Taught by Ten Track													
SCH Lower	37%	26%	28%	73%	25%	62%	46%	17%	40%		38.5%	60.0%	
Sections Lower	55%	30%	40%	70%	36%	80%	25%	20%	46%		37.3%	27.8%	
Total SCH/ Faculty FTE	929.1	657.2	782.0	750.3	843.2	802.0	877.4	818.7	812.0	843.0	0.6%	5.1%	-9.3%
w/ GTAs	860.5	578.5	671.6	624.9	691.0	661.7	712.4	630.5	641.8	680.8	0.9%	2.9%	-20.9%
Undergrad FY FTE	316.0	317.4	311.8	303.4	312.6	307.5	305.1	311.5	296.6	287.0	-2.1%	-6.6%	-9.2%
Graduate FY FTE	5.8	5.8	6.8	10.3	8.0	9.8	13.0	10.7	12.0	9.8	-0.5%	0.4%	68.6%
Total FY FTE	321.8	323.1	318.6	313.7	320.6	317.3	318.1	322.2	308.7	296.9	-2.2%	-6.4%	-7.7%
Expend/Student FTE	2,621	2,608	2,776	2,992	3,024	3,324	3,098	3,623	4,012	3,677	3.2%	10.6%	40.3%
StudFTE/FacultyFTE	31.1	22.0	26.2	25.2	28.2	26.9	29.5	27.5	27.3	28.3	0.6%	5.2%	-9.0%
w/ GTAs	28.8	19.4	22.5	21.0	23.1	22.2	23.9	21.2	21.6	22.8	0.9%	2.9%	-20.6%
Fresh/Soph Majors	48	53	44	60	56	35	34	54	68	70	16.8%	100.0%	45.8%
Jr/Sr/PostBach Majors	63	61	78	71	56	69	64	74	68	63	-0.9%	-8.7%	0.0%
Second Majors	2	6	4	11	12	18	9	20	15	14	12.2%	-22.2%	600.0%
Graduate Majors	11	7	10	15	11	13	18	19	18	16	2.3%	23.1%	45.5%
Total Majors	124	127	136	157	135	135	125	167	169	163	4.9%	20.7%	31.5%
Majors/Faculty FTE	12.0	8.6	11.2	12.6	11.9	11.4	11.6	14.2	14.9	15.5	7.1%	35.7%	29.7%
Bachelor's Degrees	35	28	31	41	31	37	27	39	47	33	2.1%	-10.8%	-5.7%
Masters/Spec Degrees	8	0	0	5	5	2	4	7	10	1	5.8%	-50.0%	-87.5%
Doctoral Degrees**				0	0	0	0	0	0	0			
Total	43	28	31	46	36	39	31	46	57	34	0.4%	-12.8%	-20.9%

*SCH, FTE, and university seminar counts, and ratios based upon them, changed in FY05 to consistently follow the instructor's appointment rather than the subject code.

‡ Faculty FTE and % Tenure Track calculations changed in FY03 from budgeted FTE to Fall actuals. Graduate FTE assumes each headcount graduate assistant paid through program 01 is .5 FTE

Excludes benefits expenditures

**Graduate degrees were aggregated prior to 2004-05 and shown in the masters line.

Program of Ag Ed and AOT

	2001-02	2002-03‡	2003-04	2004-05*	2005-06	2006-07	2007-08	2008-09#	2009-2010	2010-2011	Weighted Avg % Change /Yr (5 years)	5 year % change	10 year % change
Expenditures	176,832	202,378	180,902	216,536	203,551	199,423	236,119	238,058	273,925	251,648	3.8%	26.2%	42.3%
Faculty FTE	3.0	3.0	4.0	3.0	2.7	1.7	2.0	3.0	3.0	3.0	10.1%	79.6%	0.0%
TTT Fac FTE				3.0	2.7	1.7	2.0	3.0	3.0	3.0	10.1%	79.6%	
% Tenure Track	67%	100%	75%	100%	100%	100%	100%	100%	100%	100%	0.0%	0.0%	50.0%
GTA FTE	0.1	0.5	0.0	0.5	0.0	0.5	0.0	2.0	2.0	1.0		100.0%	946.6%
SCH Lower	292	243	389	335	292	305	335	334	361	416	8.8%	36.4%	42.5%
SCH Upper	529	554	569	625	598	550	547	386	285	360	-4.7%	-34.5%	-31.9%
SCH Grad	45	75	91	64	23	56	29	37	75	59	28.9%	5.4%	31.1%
Total FY SCH	866	872	1,049	1,024	913	911	911	757	721	835	0.6%	-8.3%	-3.6%
Univ Seminar SCH				222	183	174	168	165	183	225	9.4%	29.3%	
Research SCH				10	0	6	30	27	57	40		566.7%	
% Taught by Ten Track													
SCH Lower	0%	100%	0%	100%	100%	100%	100%	100%	91%		-3.0%	-9.0%	
Sections Lower	0%	100%	0%	100%	100%	100%	100%	100%	95%		-1.7%	-5.0%	
Total SCH/ Faculty FTE	288.7	290.7	262.3	341.3	341.9	545.5	455.5	252.3	240.3	278.3	-3.1%	-49.0%	-3.6%
w/ GTAs	279.8	249.1	262.3	292.6	341.9	419.8	455.5	151.4	144.2	208.8	3.0%	-50.3%	-25.4%
Undergrad FY FTE	27.4	26.6	31.9	32.0	29.7	28.5	29.4	24.0	21.5	25.9	0.5%	-9.2%	-5.5%
Graduate FY FTE	1.9	3.1	3.8	2.7	1.0	2.3	1.2	1.5	3.1	2.5	28.9%	5.4%	31.1%
Total FY FTE	29.2	29.7	35.7	34.7	30.6	30.8	30.6	25.5	24.7	28.3	0.7%	-8.1%	-3.1%
Expend/Student FTE	6,047	6,816	5,064	6,246	6,647	6,468	7,714	9,320	11,109	8,884	5.0%	37.4%	46.9%
StudFTE/FacultyFTE	9.7	9.9	8.9	11.6	11.5	18.5	15.3	8.5	8.2	9.4	-3.1%	-48.9%	-3.1%
w/ GTAs	9.4	8.5	8.9	9.9	11.5	14.2	15.3	5.1	4.9	7.1	2.9%	-50.2%	-25.0%
Fresh/Soph Majors	37	34	39	38	40	35	25	24	29	26	-3.3%	-25.7%	-29.7%
Jr/Sr/PostBach Majors	46	40	40	48	42	46	41	44	31	34	-4.0%	-26.1%	-26.1%
Second Majors	1	1	0	0	0	1	1	2	2	1		0.0%	0.0%
Graduate Majors	2	8	7	9	3	3	3	4	5	6	20.0%	100.0%	200.0%
Total Majors	86	83	86	95	85	85	70	74	67	67	-3.7%	-21.2%	-22.1%
Majors/Faculty FTE	28.7	27.7	21.5	31.7	31.8	50.9	35.0	24.7	22.3	22.3	-8.6%	-56.1%	-22.1%
Bachelor's Degrees	22	21	13	19	16	19	13	18	15	10	-10.8%	-47.4%	-54.5%
Masters/Spec Degrees	2	1	4	4	2	1	1	2	1	2	36.7%	100.0%	0.0%
Doctoral Degrees**				0	0	0	0	0	0	0			
Total	24	22	17	23	18	20	14	20	16	12	-8.4%	-40.0%	-50.0%

*SCH, FTE, and university seminar counts, and ratios based upon them, changed in FY05 to consistently follow the instructor's appointment rather than the subject code.

‡ Faculty FTE and % Tenure Track calculations changed in FY03 from budgeted FTE to Fall actuals. Graduate FTE assumes each headcount graduate assistant paid through program 01 is .5 FTE

Excludes benefits expenditures

**Graduate degrees were aggregated prior to 2004-05 and shown in the masters line.

Animal and Range Sciences

	2001-02	2002-03‡	2003-04	2004-05*	2005-06	2006-07	2007-08	2008-09#	2009-2010	2010-2011	Weighted Avg % Change /Yr (5 years)	5 year % change	10 year % change
Expenditures	524,345	557,921	582,461	604,767	612,275	652,125	611,321	587,740	625,470	616,875	0.1%	-5.4%	17.6%
Faculty FTE	6.4	9.3	8.1	8.1	9.3	11.3	8.2	7.5	7.6	6.9	-6.7%	-39.0%	7.8%
TTT Fac FTE				6.5	7.7	9.6	6.0	5.5	4.9	5.5	-4.1%	-42.7%	
% Tenure Track	100%	68%	80%	80%	83%	85%	74%	73%	64%	79%	2.9%	-6.1%	-20.5%
GTA FTE	0.4	4.5	2.0	1.0	0.5	0.5	1.0	4.0	2.5	2.5	63.3%	400.0%	480.2%
SCH Lower	1,480	1,697	1,833	1,917	2,138	2,099	2,000	2,012	2,136	2,358	4.5%	12.3%	59.3%
SCH Upper	1,653	1,385	1,700	1,818	1,798	1,939	2,272	2,140	2,004	2,133	2.1%	10.0%	29.0%
SCH Grad	207	291	221	289	281	255	211	263	194	192	-5.3%	-24.7%	-7.2%
Total FY SCH	3,340	3,373	3,754	4,024	4,217	4,293	4,483	4,415	4,334	4,683	2.6%	9.1%	40.2%
Univ Seminar SCH				0	0	0	0	0	0	0			
Research SCH				15	42	154	170	186	166	148	14.6%	-3.9%	
% Taught by Ten Track													
SCH Lower	100%	96%	85%	82%	85%	82%	80%	80%	82%		0.1%	-3.5%	
Sections Lower	100%	75%	100%	80%	100%	100%	100%	100%	100%		1.7%	0.0%	
Total SCH/ Faculty FTE	521.9	364.1	464.1	496.7	452.4	379.6	547.9	589.9	566.7	678.9	11.9%	78.8%	30.1%
w/ GTAs	489.0	245.1	372.1	442.1	429.4	363.6	488.2	384.4	427.1	498.3	7.8%	37.1%	1.9%
Undergrad FY FTE	104.4	102.7	117.8	124.5	131.2	134.6	142.4	138.4	138.0	149.7	3.1%	11.2%	43.3%
Graduate FY FTE	8.6	12.1	9.2	12.0	11.7	10.6	8.8	11.0	8.1	8.0	-5.3%	-24.7%	-7.2%
Total FY FTE	113.1	114.9	127.0	136.5	142.9	145.2	151.2	149.4	146.1	157.7	2.5%	8.6%	39.5%
Expend/Student FTE	4,638	4,857	4,587	4,429	4,285	4,490	4,043	3,935	4,282	3,912	-2.1%	-12.9%	-15.7%
StudFTE/FacultyFTE	17.7	12.4	15.7	16.9	15.3	12.8	18.5	20.0	19.1	22.9	11.8%	78.0%	29.4%
w/ GTAs	16.6	8.3	12.6	15.0	14.6	12.3	16.5	13.0	14.4	16.8	7.7%	36.4%	1.4%
Fresh/Soph Majors	72	74	83	85	106	103	93	92	111	150	15.5%	45.6%	108.3%
Jr/Sr/PostBach Majors	94	89	106	103	101	108	115	118	127	128	4.1%	18.5%	36.2%
Second Majors	4	1	2	1	2	3	3	2	4	4	23.3%	33.3%	0.0%
Graduate Majors	19	18	23	22	21	22	19	22	18	18	-3.2%	-18.2%	-5.3%
Total Majors	189	182	214	211	230	236	230	234	260	300	8.3%	27.1%	58.7%
Majors/Faculty FTE	29.5	19.6	26.5	26.0	24.7	20.9	28.1	31.3	34.0	43.5	17.5%	108.4%	47.3%
Bachelor's Degrees	46	36	39	38	42	36	44	43	38	49	8.1%	36.1%	6.5%
Masters/Spec Degrees	7	7	7	6	5	9	6	8	5	7	10.9%	-22.2%	0.0%
Doctoral Degrees**				0	0	1	0	1	2	1		0.0%	
Total	53	43	46	44	47	46	50	52	45	57	7.1%	23.9%	7.5%

*SCH, FTE, and university seminar counts, and ratios based upon them, changed in FY05 to consistently follow the instructor's appointment rather than the subject code.

‡ Faculty FTE and % Tenure Track calculations changed in FY03 from budgeted FTE to Fall actuals. Graduate FTE assumes each headcount graduate assistant paid through program 01 is .5 FTE

Excludes benefits expenditures

**Graduate degrees were aggregated prior to 2004-05 and shown in the masters line.

Immunology and Infectious Diseases

	2001-02	2002-03‡	2003-04	2004-05*	2005-06	2006-07	2007-08	2008-09#	2009-2010	2010-2011	Weighted Avg % Change /Yr (5 years)	5 year % change	10 year % change
Expenditures	121,162	126,551	161,209	164,120	169,548	172,748	175,735	183,697	182,463	188,785	2.2%	9.3%	55.8%
Faculty FTE	1.3	1.1	1.4	1.5	1.3	1.3	1.5	1.6	1.5	1.5	0.4%	9.0%	14.1%
TTT Fac FTE				1.1	0.8	0.8	1.0	1.1	0.7	1.0	7.6%	14.4%	
% Tenure Track	66%	64%	68%	72%	63%	63%	66%	69%	46%	66%	7.0%	4.9%	0.1%
GTA FTE	0.3	3.5	4.5	4.0	4.0	0.5	0.5	1.0	0.5	0.0	-32.5%	-100.0%	-100.0%
SCH Lower	320	334	362	368	395	435	658	439	445	304	-9.3%	-30.0%	-5.0%
SCH Upper	285	347	261	321	273	228	230	210	219	472	36.9%	107.0%	65.6%
SCH Grad	181	195	146	167	156	180	178	218	219	293	16.8%	62.8%	61.9%
Total FY SCH	786	876	769	856	824	843	1,066	867	883	1,069	7.5%	26.9%	36.0%
Univ Seminar SCH				0	0	0	0	0	0	0			
Research SCH				22	78	30	44	43	40	42	1.5%	40.0%	
% Taught by Ten Track													
SCH Lower	0%	0%	1%	0%	0%	46%	39%	34%	41%				
Sections Lower	0%	0%	50%	0%	0%	33%	41%	25%	40%				
Total SCH/ Faculty FTE	614.1	791.3	556.8	552.3	617.1	628.8	714.8	543.6	586.3	731.7	7.5%	16.4%	19.2%
w/ GTAs	501.5	190.1	130.8	154.2	154.4	457.9	535.3	334.1	440.2	731.7	38.4%	59.8%	45.9%
Undergrad FY FTE	20.2	22.7	20.8	23.0	22.3	22.1	29.6	21.7	22.1	25.9	5.3%	17.1%	28.3%
Graduate FY FTE	7.5	8.1	6.1	7.0	6.5	7.5	7.4	9.1	9.1	12.2	16.8%	62.8%	61.9%
Total FY FTE	27.7	30.8	26.9	29.9	28.8	29.6	37.0	30.7	31.3	38.1	7.9%	28.7%	37.4%
Expend/Student FTE	4,373	4,105	6,004	5,485	5,895	5,839	4,748	5,981	5,837	4,958	-3.0%	-15.1%	13.4%
StudFTE/FacultyFTE	21.6	27.8	19.4	19.3	21.5	22.1	24.8	19.3	20.8	26.1	7.9%	18.0%	20.4%
w/ GTAs	17.7	6.7	4.6	5.4	5.4	16.1	18.6	11.8	15.6	26.1	38.9%	62.1%	47.4%
Fresh/Soph Majors	36	56	43	39	30	28	27	36	39	50	17.4%	78.6%	38.9%
Jr/Sr/PostBach Majors	24	33	31	34	32	15	19	16	13	20	9.8%	33.3%	-16.7%
Second Majors	1	1	5	2	2	4	1	0	1	3		-25.0%	200.0%
Graduate Majors	17	18	17	16	18	13	14	14	11	14	2.6%	7.7%	-17.6%
Total Majors	78	108	96	91	82	60	61	66	64	87	11.2%	45.0%	11.5%
Majors/Faculty FTE	60.9	97.6	69.5	58.7	61.4	44.8	40.9	41.4	42.5	59.5	11.4%	33.0%	-2.3%
Bachelor's Degrees	11	11	12	7	16	9	8	5	5	6	-5.2%	-33.3%	-45.5%
Masters/Spec Degrees	4	2	3	0	2	1	1	0	0	0		-100.0%	-100.0%
Doctoral Degrees**				1	3	1	1	5	1	2	87.6%	100.0%	
Total	15	13	15	8	21	11	10	10	6	8	-3.9%	-27.3%	-46.7%

*SCH, FTE, and university seminar counts, and ratios based upon them, changed in FY05 to consistently follow the instructor's appointment rather than the subject code.

‡ Faculty FTE and % Tenure Track calculations changed in FY03 from budgeted FTE to Fall actuals. Graduate FTE assumes each headcount graduate assistant paid through program 01 is .5 FTE

Excludes benefits expenditures

**Graduate degrees were aggregated prior to 2004-05 and shown in the masters line.

Land Resources and Environmental Sciences

	2001-02	2002-03‡	2003-04	2004-05*	2005-06	2006-07	2007-08	2008-09#	2009-2010	2010-2011	Weighted Avg % Change /Yr (5 years)	5 year % change	10 year % change
Expenditures	407,059	445,310	463,780	454,993	551,642	565,340	587,818	575,816	626,222	691,378	6.1%	22.3%	69.8%
Faculty FTE	5.9	6.1	5.9	5.9	7.9	6.4	5.4	6.7	6.4	6.8	2.4%	6.6%	14.3%
TTT Fac FTE				5.5	7.2	6.0	5.4	6.5	6.3	6.7	3.1%	11.8%	
% Tenure Track	79%	77%	93%	94%	92%	95%	100%	98%	99%	99%	1.0%	4.9%	25.7%
GTA FTE	0.4	9.5	4.5	2.5	2.5	2.0	3.5	4.5	5.5	4.0	11.2%	100.0%	828.3%
SCH Lower	741	702	654	1,127	1,342	1,268	1,195	1,477	1,640	1,941	12.6%	53.1%	161.9%
SCH Upper	748	1,399	1,069	1,394	1,398	1,197	1,179	1,269	1,272	1,691	11.4%	41.3%	126.1%
SCH Grad	636	761	689	684	674	786	678	737	668	764	3.3%	-2.8%	20.1%
Total FY SCH	2,125	2,862	2,412	3,205	3,414	3,250	3,052	3,483	3,580	4,396	10.0%	35.2%	106.9%
Univ Seminar SCH				87	153	87	90	96	141	141	11.4%	62.1%	
Research SCH				3	67	87	67	73	48	84	16.6%	-3.4%	
% Taught by Ten Track													
SCH Lower	78%	26%	88%	100%	100%	100%	100%	100%	100%	100%	0.0%	0.0%	
Sections Lower	83%	33%	87%	100%	100%	100%	100%	100%	100%	100%	0.0%	0.0%	
Total SCH/ Faculty FTE	358.3	467.6	405.6	546.9	432.1	511.5	569.6	523.6	561.9	648.8	8.2%	26.8%	81.0%
w/ GTAs	334.1	183.2	230.9	383.3	328.3	389.0	344.5	312.3	301.6	407.9	8.7%	4.9%	22.1%
Undergrad FY FTE	49.6	70.0	57.4	84.0	91.3	82.2	79.1	91.5	97.1	121.1	11.8%	47.4%	143.9%
Graduate FY FTE	26.5	31.7	28.7	28.5	28.1	32.7	28.2	30.7	27.8	31.8	3.3%	-2.8%	20.1%
Total FY FTE	76.1	101.7	86.1	112.5	119.4	114.9	107.4	122.2	124.9	152.9	9.7%	33.1%	100.8%
Expend/Student FTE	5,347	4,377	5,384	4,043	4,619	4,920	5,475	4,711	5,014	4,522	-2.4%	-8.1%	-15.4%
StudFTE/FacultyFTE	12.8	16.6	14.5	19.2	15.1	18.1	20.0	18.4	19.6	22.6	7.9%	24.8%	75.8%
w/ GTAs	12.0	6.5	8.2	13.5	11.5	13.8	12.1	11.0	10.5	14.2	8.4%	3.2%	18.5%
Fresh/Soph Majors	43	45	45	41	35	27	25	37	47	52	17.8%	92.6%	20.9%
Jr/Sr/PostBach Majors	63	71	70	78	76	58	53	51	49	62	4.3%	6.9%	-1.6%
Second Majors	2	1	1	0	0	2	1	1	2	1		-50.0%	-50.0%
Graduate Majors	53	55	61	51	49	54	49	49	51	54	2.5%	0.0%	1.9%
Total Majors	161	172	177	170	160	141	128	138	149	169	6.1%	19.9%	5.0%
Majors/Faculty FTE	27.2	28.1	29.8	29.0	20.3	22.2	23.9	20.7	23.4	24.9	4.6%	12.4%	-8.1%
Bachelor's Degrees	15	21	15	33	26	25	15	17	13	21	11.3%	-16.0%	40.0%
Masters/Spec Degrees	8	13	18	12	6	9	5	11	7	4	-2.6%	-55.6%	-50.0%
Doctoral Degrees**				3	3	0	3	3	4	3			
Total	23	34	33	48	35	34	23	31	24	28	2.0%	-17.6%	21.7%

*SCH, FTE, and university seminar counts, and ratios based upon them, changed in FY05 to consistently follow the instructor's appointment rather than the subject code.

‡ Faculty FTE and % Tenure Track calculations changed in FY03 from budgeted FTE to Fall actuals. Graduate FTE assumes each headcount graduate assistant paid through program 01 is .5 FTE

Excludes benefits expenditures

**Graduate degrees were aggregated prior to 2004-05 and shown in the masters line.

Plant Sciences and Plant Pathology

	2001-02	2002-03‡	2003-04	2004-05*	2005-06	2006-07	2007-08	2008-09#	2009-2010	2010-2011	Weighted Avg % Change /Yr (5 years)	5 year % change	10 year % change
Expenditures	598,955	585,569	585,411	583,166	630,686	626,819	624,158	592,347	616,585	628,608	0.6%	0.3%	5.0%
Faculty FTE	9.1	9.4	7.9	7.6	8.7	8.4	8.1	8.5	8.1	8.4	0.2%	-0.3%	-7.7%
TTT Fac FTE				7.6	7.8	8.4	7.9	8.0	7.3	8.2	1.6%	-3.2%	
% Tenure Track	88%	89%	100%	100%	90%	100%	97%	93%	90%	97%	1.3%	-3.0%	9.9%
GTA FTE	0.3	6.0	2.0	2.0	2.0	0.0	0.5	1.0	1.0	1.5			458.2%
SCH Lower	1,454	2,039	1,863	2,844	2,227	2,419	2,420	2,604	2,374	2,860	6.6%	18.2%	96.7%
SCH Upper	2,898	2,820	2,842	2,702	2,473	2,211	2,227	2,367	2,721	2,558	2.6%	15.7%	-11.7%
SCH Grad	301	364	390	340	546	429	391	328	292	237	-15.0%	-44.8%	-21.3%
Total FY SCH	4,653	5,223	5,095	5,886	5,246	5,059	5,038	5,299	5,387	5,655	2.8%	11.8%	21.5%
Univ Seminar SCH				102	0	90	48	36	0	51			-43.3%
Research SCH				56	118	130	59	151	159	226	40.0%	73.8%	
% Taught by Ten Track													
SCH Lower	98%	99%	100%	100%	83%	97%	95%	90%	99%		2.6%	19.3%	
Sections Lower	100%	100%	100%	100%	86%	96%	94%	87%	97%		2.0%	12.8%	
Total SCH/ Faculty FTE	510.8	556.8	646.3	770.0	601.6	600.1	618.7	620.2	666.0	672.6	2.7%	12.1%	31.7%
w/ GTAs	496.1	339.6	515.5	610.3	489.4	600.1	582.9	555.2	592.8	570.8	0.7%	-4.9%	15.0%
Undergrad FY FTE	145.1	162.0	156.8	184.9	156.7	154.3	154.9	165.7	169.8	180.6	4.1%	17.0%	24.5%
Graduate FY FTE	12.5	15.2	16.3	14.2	22.7	17.9	16.3	13.7	12.2	9.9	-15.0%	-44.8%	-21.3%
Total FY FTE	157.6	177.1	173.1	199.0	179.4	172.2	171.2	179.4	182.0	190.5	2.6%	10.6%	20.9%
Expend/Student FTE	3,800	3,306	3,382	2,930	3,515	3,640	3,646	3,302	3,388	3,300	-1.8%	-9.3%	-13.2%
StudFTE/FacultyFTE	17.3	18.9	22.0	26.0	20.6	20.4	21.0	21.0	22.5	22.7	2.5%	10.9%	30.9%
w/ GTAs	16.8	11.5	17.5	20.6	16.7	20.4	19.8	18.8	20.0	19.2	0.5%	-5.9%	14.4%
Fresh/Soph Majors	76	72	64	72	59	67	54	58	53	58	0.6%	-13.4%	-23.7%
Jr/Sr/PostBach Majors	115	118	90	86	81	76	77	64	73	76	1.5%	0.0%	-33.9%
Second Majors	0	1	1	3	3	3	1	3	2	2	22.2%	-33.3%	
Graduate Majors	19	24	22	19	23	19	20	18	15	17	-2.5%	-10.5%	-10.5%
Total Majors	210	215	177	180	166	165	152	143	143	153	0.1%	-7.3%	-27.1%
Majors/Faculty FTE	23.1	22.9	22.5	23.5	19.0	19.6	18.7	16.7	17.7	18.2	0.0%	-7.0%	-21.1%
Bachelor's Degrees	34	52	40	33	32	24	28	24	29	25	-1.3%	4.2%	-26.5%
Masters/Spec Degrees	4	7	7	5	2	9	4	3	4	3	11.5%	-66.7%	-25.0%
Doctoral Degrees**				1	1	1	2	2	0	2		100.0%	
Total	38	59	47	39	35	34	34	29	33	30	-2.5%	-11.8%	-21.1%

*SCH, FTE, and university seminar counts, and ratios based upon them, changed in FY05 to consistently follow the instructor's appointment rather than the subject code.

‡ Faculty FTE and % Tenure Track calculations changed in FY03 from budgeted FTE to Fall actuals. Graduate FTE assumes each headcount graduate assistant paid through program 01 is .5 FTE

Excludes benefits expenditures

**Graduate degrees were aggregated prior to 2004-05 and shown in the masters line.

Entomology⁺

	2001-02	2002-03‡	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09#	2009-2010	2010-2011	Weighted Avg % Change /Yr (5 years)	5 year % change	10 year % change
Expenditures	98,746	112,973	104,083	104,502	0	0	0	0	0	0			
Faculty FTE	1.3	2.1	1.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0			
TTT Fac FTE				1.1	0.0	0.0	0.0	0.0	0.0	0.0			
% Tenure Track	100%	47%	91%	100%									
GTA FTE	0.4	3.5	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0			
SCH Lower	216	237	207	288	0	0	0	0					
SCH Upper	439	240	191	157	14	0	0	0					
SCH Grad	110	175	132	172	63	33	21	15					
Total FY SCH	765	652	530	617	77	33	21	15	0	0			
Univ Seminar SCH				96									
Research SCH				18									
% Taught by Ten Track													
SCH Lower	100%	100%	100%										
Sections Lower	100%	100%	100%										
Total SCH/ Faculty FTE	602.4	316.8	457.7	585.4									
w/ GTAs	469.6	117.3	245.6	300.4									
Undergrad FY FTE	21.8	15.9	13.3	14.8	0.5	0.0	0.0	0.0	0.0	0.0			
Graduate FY FTE	4.6	7.3	5.5	7.2	2.6	1.4	0.9	0.6	0.0	0.0			
Total FY FTE	26.4	23.2	18.8	22.0	3.1	1.4	0.9	0.6	0.0	0.0			
Expend/Student FTE	3,738	4,871	5,546	4,750									
StudFTE/FacultyFTE	20.8	11.3	16.2	20.9									
w/ GTAs	16.2	4.2	8.7	10.7									
Fresh/Soph Majors	0	0	0	0									
Jr/Sr/PostBach Majors	0	0	0	0									
Second Majors													
Graduate Majors	12	14	12	13	8	6	4	3					
Total Majors	12	14	12	13	8	6	4	3	0	0			
Majors/Faculty FTE	9.4	6.8	10.4	12.3									
Bachelor's Degrees	0	0	0	0	0	0	0	0	0	0			
Masters/Spec Degrees	1	4	3	4	1	5	1	2	1	1			
Doctoral Degrees**				0	0	0	0	0	0	0			
Total	1	4	3	4	1	5	1	2	1	1			

*SCH, FTE, and university seminar counts, and ratios based upon them, changed in FY05 to consistently follow the instructor's appointment rather than the subject code

‡ Faculty FTE and % Tenure Track calculations changed in FY03 from budgeted FTE to Fall actuals. Graduate FTE assumes each headcount graduate assistant paid through program 01 is .5

Excludes benefits expenditures

**Graduate degrees were aggregated prior to 2004-05 and shown in the masters line

+The department of Entomology was reorganized among existing departments in 2005. Expenditures, faculty, and some majors and degrees were moved to the new departments and are reflected on those departments' KPI reports. Credit hours in the ENTO rubric are reported here and also divided among those other departments from 2005-06 forward (they are not double counted in the college total). Some majors and degrees are shown on this report only; those associated in Banner with the new department are shown on the other departments' reports (degrees and majors are not shown on more than one page in this report).

Dean of Agriculture

	2001-02	2002-03‡	2003-04	2004-05*	2005-06	2006-07	2007-08	2008-09#	2009-2010	2010-2011	Weighted Avg % Change /Yr (5 years)	5 year % change	10 year % change
Expenditures	0	23,281	2,460	14,268	51,000	35,389	151,631	121,981	60,000	72,607	31.3%	105.2%	
Faculty FTE	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			-100.0%
TTT Fac FTE				0.0	0.0	0.0	0.0	0.0	0.0	0.0			
% Tenure Track													
GTA FTE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
SCH Lower	0	0	0	0	0	0	63	63	42	90			
SCH Upper	0	0	0	0	0	0	0	0	0	0			
SCH Grad	0	0	0	0	0	0	0	0	0	0			
Total FY SCH	0	0	0	0	0	0	63	63	42	90			
Univ Seminar SCH													
Research SCH													
% Taught by Ten Track													
SCH Lower													
Sections Lower													
Total SCH/ Faculty FTE	0.0												
w/ GTAs	0.0												
Undergrad FY FTE	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1	1.4	3.0			
Graduate FY FTE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
Total FY FTE	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1	1.4	3.0			
Expend/Student FTE							72,205	58,086	42,857	24,202			
StudFTE/FacultyFTE	0.0												
w/ GTAs	0.0												
Fresh/Soph Majors	5	6	8	5	1	3	3	5	1	1	5.3%	-66.7%	-80.0%
Jr/Sr/PostBach Majors	0	0	0	0	0	0	0	0	0	0			
Second Majors	0	0	0	0	0	0	0	1	0	0			
Graduate Majors	0	0	0	0	0	0	0	0	0	0			
Total Majors	5	6	8	5	1	3	3	6	1	1	11.1%	-66.7%	-80.0%
Majors/Faculty FTE	0.0												
Bachelor's Degrees	0	0	0	0	0	0	0	0	0	0			
Masters/Spec Degrees	0	0	0	0	0	0	0	0	0	0			
Doctoral Degrees**				0	0	0	0	0	0	0			
Total	0	0	0	0	0	0	0	0	0	0			

*SCH, FTE, and university seminar counts, and ratios based upon them, changed in FY05 to consistently follow the instructor's appointment rather than the subject code.

‡ Faculty FTE and % Tenure Track calculations changed in FY03 from budgeted FTE to Fall actuals. Graduate FTE assumes each headcount graduate assistant paid through program 01 is .5 FTE

Excludes benefits expenditures

**Graduate degrees were aggregated prior to 2004-05 and shown in the masters line.

College of Business

	2001-02	2002-03‡	2003-04	2004-05*	2005-06	2006-07	2007-08	2008-09#	2009-2010	2010-2011	Weighted Avg % Change /Yr (5 years)	5 year % change	10 year % change
Expenditures	2,189,064	2,470,802	2,540,980	2,503,326	2,976,498	3,120,255	3,568,239	3,493,580	3,640,007	3,686,775	3.4%	18.2%	68.4%
Faculty FTE	30.5	37.8	38.5	37.1	41.1	40.5	44.2	43.0	42.4	40.8	-1.1%	0.8%	33.9%
TTTFac FTE				20.9	22.5	19.6	24.0	23.0	23.0	21.0	-1.7%	7.1%	
% Tenure Track	62%	58%	58%	56%	55%	48%	54%	53%	54%	51%	-0.8%	6.2%	-17.0%
GTA FTE	0.4	2.0	2.5	2.5	2.5	2.5	3.0	4.5	2.5	2.5	0.8%	0.0%	500.2%
SCH Lower	7,002	7,119	6,838	7,476	7,970	8,004	7,503	8,163	8,781	9,294	4.9%	16.1%	32.7%
SCH Upper	12,751	13,473	12,670	12,539	12,862	13,575	13,997	14,537	13,657	12,955	-1.8%	-4.6%	1.6%
SCH Grad	1,096	955	874	1,169	1,290	1,032	1,272	1,468	1,502	1,252	-0.1%	21.3%	14.2%
Total FY SCH	20,849	21,547	20,382	21,184	22,122	22,611	22,772	24,168	23,940	23,501	0.6%	3.9%	12.7%
Univ Seminar SCH				801	894	807	816	822	903	918	2.8%	13.8%	
Research SCH				591	870	927	810	1,014	834	831	-1.1%	-10.4%	
% Taught by Ten Track													
SCH Lower	46%	44%	42%	38%	9%	7%	10%	20%	26%		37.2%	188.9%	
Sections Lower	64%	54%	53%	23%	19%	11%	9%	18%	23%		25.5%	21.1%	
Total SCH/ Faculty FTE	684.4	570.6	528.8	571.5	538.1	559.0	515.1	561.5	564.7	576.3	1.9%	3.1%	-15.8%
w/ GTAs	675.2	541.9	496.6	535.4	507.2	526.4	482.4	508.4	533.2	543.0	2.1%	3.1%	-19.6%
Undergrad FY FTE	658.4	686.4	650.3	667.2	694.4	719.3	716.7	756.7	747.9	741.6	0.7%	3.1%	12.6%
Graduate FY FTE	45.7	39.8	36.4	48.7	53.8	43.0	53.0	61.2	62.6	52.2	-0.1%	21.3%	14.2%
Total FY FTE	704.1	726.2	686.7	715.9	748.2	762.3	769.7	817.8	810.5	793.8	0.6%	4.1%	12.7%
Expend/Student FTE	3,109	3,402	3,700	3,497	3,978	4,093	4,636	4,272	4,491	4,644	2.9%	13.5%	49.4%
StudFTE/FacultyFTE	23.1	19.2	17.8	19.3	18.2	18.8	17.4	19.0	19.1	19.5	1.8%	3.3%	-15.8%
w/ GTAs	22.8	18.3	16.7	18.1	17.2	17.7	16.3	17.2	18.1	18.3	2.1%	3.3%	-19.6%
Fresh/Soph Majors	548	524	512	557	634	570	566	549	540	522	-2.9%	-8.4%	-4.7%
Jr/Sr/PostBach Majors	524	577	522	505	521	558	585	590	580	530	-2.0%	-5.0%	1.1%
Second Majors	8	7	7	11	12	8	12	13	9	23	49.8%	187.5%	187.5%
Graduate Majors	37	34	31	43	42	33	48	50	48	48	4.4%	45.5%	29.7%
Total Majors	1,117	1,142	1,072	1,116	1,209	1,169	1,211	1,202	1,177	1,123	-2.0%	-3.9%	0.5%
Majors/Faculty FTE	36.7	30.2	27.8	30.1	29.4	28.9	27.4	27.9	27.8	27.5	-0.8%	-4.7%	-24.9%
Bachelor's Degrees	211	226	218	228	215	206	236	213	246	184	-4.6%	-10.7%	-12.8%
Masters/Spec Degrees**	27	28	23	34	36	29	36	43	43	41	4.3%	41.4%	51.9%
Doctoral Degrees**			0	0	0	0	0	0	0	0			
Total	238	254	241	262	251	235	272	256	289	225	-3.4%	-4.3%	-5.5%

*SCH, FTE, and university seminar counts, and ratios based upon them, changed in FY05 to consistently follow the instructor's appointment rather than the subject code.

‡ Faculty FTE and % Tenure Track calculations changed in FY03 from budgeted FTE to Fall actuals. Graduate FTE assumes each headcount graduate assistant paid through program 01 is .5 FTE

Excludes benefits expenditures

**Graduate degrees were aggregated prior to 2004-05 and shown in the masters line.

College of Education and Health and Human Development

	2001-02	2002-03‡	2003-04	2004-05*	2005-06	2006-07	2007-08	2008-09#	2009-2010	2010-2011	Weighted Avg % Change /Yr (5 years)	5 year % change	10 year % change
Expenditures	3,410,329	3,791,081	3,754,974	3,823,895	3,964,715	4,205,586	4,376,419	4,177,639	4,308,695	4,103,455	-0.7%	-2.4%	20.3%
Faculty FTE	56.6	60.8	55.2	57.7	58.4	57.1	57.8	55.7	54.2	52.7	-2.3%	-7.6%	-6.9%
TTT Fac FTE				41.7	44.9	44.4	41.6	37.4	35.9	36.0	-3.9%	-18.9%	
% Tenure Track	81%	69%	72%	72%	77%	78%	72%	67%	66%	68%	-1.6%	-12.2%	-16.1%
GTA FTE	4.0	13.5	11.0	8.5	10.0	10.5	12.5	8.5	7.0	12.0	15.6%	14.3%	202.3%
SCH Lower	14,575	14,162	14,248	15,455	15,264	14,391	14,639	14,647	16,030	17,241	4.9%	19.8%	18.3%
SCH Upper	16,578	16,963	17,451	15,683	15,185	15,594	15,453	16,387	16,074	16,257	1.1%	4.3%	-1.9%
SCH Grad	4,599	4,643	4,985	4,593	4,514	4,274	4,647	4,717	4,812	4,203	-2.6%	-1.7%	-8.6%
Total FY SCH	35,752	35,768	36,684	35,731	34,963	34,260	34,739	35,751	36,916	37,701	2.2%	10.0%	5.5%
Univ Seminar SCH				132	198	186	144	240	234	321	21.6%	72.6%	
Research SCH				73	96	64	987	929	1,304	1,028	192.6%	1506.3%	
% Taught by Ten Track													
SCH Lower	21%	31%	30%	22%	20%	26%	39%	32%	36%		12.7%	78.7%	
Sections Lower	31%	46%	49%	42%	32%	33%	49%	36%	43%		8.2%	35.3%	
Total SCH/ Faculty FTE	631.6	588.0	664.2	619.7	599.1	600.4	601.3	642.2	681.4	715.2	4.7%	19.1%	13.2%
w/ GTAs	590.2	481.2	553.9	540.1	511.5	507.1	494.3	557.1	603.4	582.6	3.2%	14.9%	-1.3%
Undergrad FY FTE	1038.4	1037.5	1056.6	1037.9	1014.9	999.5	1003.1	1034.5	1070.1	1116.6	2.9%	11.7%	7.5%
Graduate FY FTE	191.6	193.5	207.7	191.4	188.1	178.1	193.6	196.5	200.5	175.1	-2.6%	-1.7%	-8.6%
Total FY FTE	1230.1	1231.0	1264.3	1229.3	1203.0	1177.6	1196.7	1231.0	1270.6	1291.7	2.1%	9.7%	5.0%
Expend/Student FTE	2,772	3,080	2,970	3,111	3,296	3,571	3,657	3,394	3,391	3,177	-2.7%	-11.0%	14.6%
StudFTE/FacultyFTE	21.7	20.2	22.9	21.3	20.6	20.6	20.7	22.1	23.5	24.5	4.5%	18.7%	12.8%
w/ GTAs	20.3	16.6	19.1	18.6	17.6	17.4	17.0	19.2	20.8	20.0	3.1%	14.5%	-1.7%
Fresh/Soph Majors	538	490	461	477	499	465	436	425	485	521	4.4%	12.0%	-3.2%
Jr/Sr/PostBach Majors	785	788	732	667	692	688	650	715	698	710	1.2%	3.2%	-9.6%
Second Majors	12	10	9	7	14	10	12	13	16	20	16.9%	100.0%	66.7%
Graduate Majors	168	182	257	238	223	233	277	299	344	403	14.1%	73.0%	139.9%
Total Majors	1,503	1,470	1,459	1,389	1,428	1,396	1,375	1,452	1,543	1,654	4.8%	18.5%	10.0%
Majors/Faculty FTE	26.6	24.2	26.4	24.1	24.5	24.5	23.8	26.1	28.5	31.4	7.4%	28.3%	18.2%
Bachelor's Degrees	299	262	268	255	252	250	239	226	269	243	0.1%	-2.8%	-18.7%
Masters/Spec Degrees**	78	57	92	93	47	91	88	108	104	106	10.0%	16.5%	35.9%
Doctoral Degrees**				9	7	9	5	9	9	5	-2.8%	-44.4%	
Total	377	319	360	357	306	350	332	343	382	354	1.5%	1.1%	-6.1%

*SCH, FTE, and university seminar counts, and ratios based upon them, changed in FY05 to consistently follow the instructor's appointment rather than the subject code.

‡ Faculty FTE and % Tenure Track calculations changed in FY03 from budgeted FTE to Fall actuals. Graduate FTE assumes each headcount graduate assistant paid through program 01 is .5 FTE

Excludes benefits expenditures

**Graduate degrees were aggregated prior to 2004-05 and shown in the masters line.

Education

	2001-02	2002-03‡	2003-04	2004-05*	2005-06	2006-07	2007-08	2008-09#	2009-2010	2010-2011	Weighted Avg % Change /Yr (5 years)	5 year % change	10 year % change
Expenditures	1,820,796	2,072,429	1,998,227	2,112,949	2,187,438	2,294,379	2,302,776	2,081,471	2,051,407	1,996,397	-2.8%	-13.0%	9.6%
Faculty FTE	29.3	32.4	29.9	28.3	30.4	30.0	29.9	28.9	27.7	25.8	-4.2%	-14.1%	-12.0%
TTT Fac FTE				19.4	21.2	21.1	19.9	19.2	17.6	18.4	-2.1%	-12.8%	
% Tenure Track	82%	62%	67%	69%	70%	70%	66%	66%	64%	71%	2.3%	1.6%	-13.0%
GTA FTE	2.5	4.0	4.5	4.0	4.0	4.5	5.0	2.5	1.5	5.0	59.4%	11.1%	103.1%
SCH Lower	2,974	2,432	2,670	2,654	2,844	2,635	2,589	2,919	2,989	3,738	10.8%	41.9%	25.7%
SCH Upper	9,721	10,546	11,376	9,637	8,418	8,476	8,066	8,082	7,614	7,796	-1.3%	-8.0%	-19.8%
SCH Grad	2,763	2,799	3,227	3,065	2,682	2,710	2,905	3,038	3,161	2,424	-4.7%	-10.5%	-12.3%
Total FY SCH	15,458	15,777	17,273	15,356	13,945	13,821	13,560	14,039	13,764	13,958	0.3%	1.0%	-9.7%
Univ Seminar SCH				132	198	186	144	240	234	321	21.6%	72.6%	
Research SCH				24	9	31	170	299	452	266	91.2%	758.1%	
% Taught by Ten Track													
SCH Lower	62%	38%	68%	62%	39%	45%	61%	54%	63%		9.2%	61.5%	
Sections Lower	58%	62%	79%	64%	47%	50%	61%	56%	60%		3.7%	27.7%	
Total SCH/ Faculty FTE	527.2	487.5	576.9	542.9	458.4	460.2	453.0	485.1	496.2	541.2	4.9%	17.6%	2.7%
w/ GTAs	486.4	433.9	501.5	475.6	405.1	400.3	388.2	446.5	470.7	453.3	2.7%	13.3%	-6.8%
Undergrad FY FTE	423.2	432.6	468.2	409.7	375.4	370.4	355.2	366.7	353.4	384.5	2.0%	3.8%	-9.1%
Graduate FY FTE	115.1	116.6	134.5	127.7	111.8	112.9	121.0	126.6	131.7	101.0	-4.7%	-10.5%	-12.3%
Total FY FTE	538.3	549.2	602.7	537.4	487.2	483.3	476.2	493.3	485.1	485.5	0.1%	0.5%	-9.8%
Expend/Student FTE	3,383	3,773	3,316	3,932	4,490	4,748	4,836	4,220	4,228	4,112	-2.8%	-13.4%	21.6%
StudFTE/FacultyFTE	18.4	17.0	20.1	19.0	16.0	16.1	15.9	17.0	17.5	18.8	4.5%	17.0%	2.5%
w/ GTAs	16.9	15.1	17.5	16.6	14.2	14.0	13.6	15.7	16.6	15.8	2.5%	12.7%	-6.9%
Fresh/Soph Majors	328	290	263	256	274	235	201	183	203	240	4.3%	2.1%	-26.8%
Jr/Sr/PostBach Majors	464	484	445	408	372	361	320	340	310	303	-3.6%	-16.1%	-34.7%
Second Majors	8	5	5	4	5	6	7	5	10	15	41.2%	150.0%	87.5%
Graduate Majors	101	108	172	166	134	155	183	211	270	309	18.8%	99.4%	205.9%
Total Majors	901	887	885	834	785	757	711	739	793	867	4.8%	14.5%	-3.8%
Majors/Faculty FTE	30.7	27.4	29.6	29.5	25.8	25.2	23.8	25.5	28.6	33.6	9.6%	33.4%	9.4%
Bachelor's Degrees	158	140	152	152	137	131	113	96	110	111	-0.9%	-15.3%	-29.7%
Masters/Spec Degrees**	41	36	53	63	27	54	64	61	78	73	13.5%	35.2%	78.0%
Doctoral Degrees**				9	6	9	5	9	9	5	-1.4%	-44.4%	
Total	199	176	205	224	170	194	182	166	197	189	2.0%	-2.6%	-5.0%

*SCH, FTE, and university seminar counts, and ratios based upon them, changed in FY05 to consistently follow the instructor's appointment rather than the subject code.

‡ Faculty FTE and % Tenure Track calculations changed in FY03 from budgeted FTE to Fall actuals. Graduate FTE assumes each headcount graduate assistant paid through program 01 is .5 FTE

Excludes benefits expenditures

**Graduate degrees were aggregated prior to 2004-05 and shown in the masters line.

Health and Human Development

	2001-02	2002-03‡	2003-04	2004-05*	2005-06	2006-07	2007-08	2008-09#	2009-2010	2010-2011	Weighted Avg % Change /Yr (5 years)	5 year % change	10 year % change
Expenditures	1,589,533	1,718,652	1,756,747	1,710,946	1,777,277	1,911,207	2,073,643	2,096,168	2,257,287	2,045,880	0.8%	7.0%	28.7%
Faculty FTE	27.3	28.5	25.3	29.2	27.9	27.0	27.8	26.7	26.4	26.9	-0.3%	-0.4%	-1.3%
TTT Fac FTE				22.3	23.7	23.3	21.8	18.2	18.3	17.6	-5.4%	-24.4%	
% Tenure Track	81%	77%	77%	76%	85%	86%	78%	68%	69%	65%	-5.1%	-24.1%	-19.0%
GTA FTE	1.5	9.5	6.5	4.5	6.0	6.0	7.5	6.0	5.5	7.0	6.2%	16.7%	364.2%
SCH Lower	11,601	11,730	11,578	12,801	12,420	11,757	12,050	11,728	13,041	13,503	3.6%	14.9%	16.4%
SCH Upper	6,857	6,417	6,075	6,046	6,766	7,118	7,387	8,305	8,460	8,461	3.8%	18.9%	23.4%
SCH Grad	1,836	1,844	1,758	1,528	1,832	1,564	1,742	1,679	1,651	1,779	2.0%	13.7%	-3.1%
Total FY SCH	20,294	19,991	19,411	20,375	21,018	20,439	21,179	21,712	23,152	23,743	3.4%	16.2%	17.0%
Univ Seminar SCH				0	0	0	0	0	0	0			
Research SCH				49	87	33	817	630	852	762	313.9%	2209.1%	
% Taught by Ten Track													
SCH Lower	12%	30%	21%	14%	16%	22%	34%	27%	30%		15.1%	87.5%	
Sections Lower	17%	38%	32%	29%	23%	25%	41%	22%	30%		12.3%	30.4%	
Total SCH/ Faculty FTE w/ GTAs	743.7 704.8	702.4 526.6	767.7 610.7	698.5 605.1	752.4 619.4	756.1 618.8	760.7 599.3	812.4 663.5	875.7 724.9	881.9 699.9	3.8% 3.0%	16.6% 13.1%	18.6% -0.7%
Undergrad FY FTE	615.3	604.9	588.4	628.2	639.5	629.2	647.9	667.8	716.7	732.1	3.6%	16.4%	19.0%
Graduate FY FTE	76.5	76.8	73.3	63.7	76.3	65.2	72.6	69.9	68.8	74.1	2.0%	13.7%	-3.1%
Total FY FTE	691.8	681.7	661.7	691.9	715.9	694.3	720.5	737.7	785.5	806.3	3.4%	16.1%	16.6%
Expend/Student FTE	2,298	2,521	2,655	2,473	2,483	2,753	2,878	2,841	2,874	2,537	-2.5%	-7.8%	10.4%
StudFTE/FacultyFTE w/ GTAs	25.4 24.0	24.0 18.0	26.2 20.8	23.7 20.5	25.6 21.1	25.7 21.0	25.9 20.4	27.6 22.5	29.7 24.6	29.9 23.8	3.7% 3.0%	16.6% 13.1%	18.1% -1.1%
Fresh/Soph Majors	210	200	198	221	225	230	235	242	282	281	5.3%	22.2%	33.8%
Jr/Sr/PostBach Majors	321	304	287	259	320	327	330	375	388	407	5.6%	24.5%	26.8%
Second Majors	4	5	4	3	9	4	5	8	6	5	-0.6%	25.0%	25.0%
Graduate Majors	67	74	85	72	89	78	94	88	74	94	5.4%	20.5%	40.3%
Total Majors	602	583	574	555	643	639	664	713	750	787	5.0%	23.2%	30.7%
Majors/Faculty FTE	22.1	20.5	22.7	19.0	23.0	23.6	23.9	26.7	28.4	29.2	5.4%	23.7%	32.5%
Bachelor's Degrees	141	122	116	103	115	119	126	130	159	132	1.9%	10.9%	-6.4%
Masters/Spec Degrees**	37	21	39	30	20	37	24	47	26	33	17.2%	-10.8%	-10.8%
Doctoral Degrees**				0	1	0	0	0	0	0			
Total	178	143	155	133	136	156	150	177	185	165	1.7%	5.8%	-7.3%

*SCH, FTE, and university seminar counts, and ratios based upon them, changed in FY05 to consistently follow the instructor's appointment rather than the subject code.

‡ Faculty FTE and % Tenure Track calculations changed in FY03 from budgeted FTE to Fall actuals. Graduate FTE assumes each headcount graduate assistant paid through program 01 is .5 FTE

Excludes benefits expenditures

**Graduate degrees were aggregated prior to 2004-05 and shown in the masters line.

Dean of Education, Health and Human Development

	2001-02	2002-03‡	2003-04	2004-05*	2005-06	2006-07	2007-08	2008-09#	2009-2010	2010-2011	Weighted Avg % Change /Yr (5 years)	5 year % change	10 year % change
Expenditures	0	0	0	0	0	0	0	0	0	61,178			
Faculty FTE	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0			
TTT Fac FTE				0.0	0.0	0.0	0.0	0.0	0.0	0.0			
% Tenure Track				0%									
GTA FTE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
SCH Lower	0	0	0	0	0	0	0	0					
SCH Upper	0	0	0	0	0	0	0	0					
SCH Grad	0	0	0	0	0	0	0	0					
Total FY SCH	0	0	0	0	0	0	0	0	0	0			
Univ Seminar SCH				0	0	0	0	0					
Research SCH				0	0	0	0	0	0	0			
% Taught by Ten Track													
SCH Lower													
Sections Lower													
Total SCH/ Faculty FTE w/ GTAs				0.0									
Undergrad FY FTE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
Graduate FY FTE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
Total FY FTE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
Expend/Student FTE													
StudFTE/FacultyFTE w/ GTAs				0.0									
Fresh/Soph Majors	0	0	0	0	0	0	0	0	0	0			
Jr/Sr/PostBach Majors	0	0	0	0	0	0	0	0	0	0			
Second Majors	0	0	0	0	0	0	0	0	0	0			
Graduate Majors	0	0	0	0	0	0	0	0	0	0			
Total Majors	0	0	0	0	0	0	0	0	0	0			
Majors/Faculty FTE				0.0									
Bachelor's Degrees	0	0	0	0	0	0	0	0	0	0			
Masters/Spec Degrees**	0	0	0	0	0	0	0	0	0	0			
Doctoral Degrees**				0	0	0	0	0	0	0			
Total	0	0	0	0	0	0	0	0	0	0			

*SCH, FTE, and university seminar counts, and ratios based upon them, changed in FY05 to consistently follow the instructor's appointment rather than the subject code.

‡ Faculty FTE and % Tenure Track calculations changed in FY03 from budgeted FTE to Fall actuals. Graduate FTE assumes each headcount graduate assistant paid through program 01 is .5 FTE

Excludes benefits expenditures

**Graduate degrees were aggregated prior to 2004-05 and shown in the masters line.

College of Letters and Science

	2001-02	2002-03‡	2003-04	2004-05*	2005-06	2006-07	2007-08	2008-09#	2009-2010	2010-2011	Weighted Avg % Change /Yr (5 years)	5 year % change	10 year % change
Expenditures	13,807,176	14,903,775	15,556,073	15,898,691	16,396,628	17,005,005	17,775,159	18,151,730	18,186,479	18,714,515	2.3%	10.1%	35.5%
Faculty FTE	189.1	208.5	215.8	212.3	218.4	213.9	215.0	213.2	214.6	219.1	0.6%	2.4%	15.9%
TTT Fac FTE				152.8	163.7	155.1	161.6	161.1	159.4	159.8	0.0	0.0	
% Tenure Track	84%	69%	67%	72%	75%	72%	75%	76%	74%	73%	-0.7%	0.6%	-12.9%
GTA FTE	35.0	107.0	103.0	111.0	97.0	96.5	94.5	101.5	85.5	88.5	-1.9%	-8.3%	153.1%
SCH Lower	108,700	112,129	114,609	101,226	106,288	105,080	99,965	97,819	102,694	113,035	3.5%	7.6%	4.0%
SCH Upper	27,717	28,324	28,785	27,991	29,597	29,980	29,892	29,748	29,472	31,682	2.2%	5.7%	14.3%
SCH Grad	6,119	6,457	6,466	6,383	6,885	6,672	6,254	6,470	6,577	6,180	-1.9%	-7.4%	1.0%
Total FY SCH	142,536	146,910	149,860	135,600	142,770	141,733	136,111	134,037	138,743	150,897	3.0%	6.5%	5.9%
Univ Seminar SCH				2,046	2,306	2,265	1,851	1,672	1,998	2,100	2.4%	-7.3%	
Research SCH				1,905	2,328	2,734	3,100	2,845	2,695	2,797	1.2%	2.3%	
% Taught by Ten Track													
SCH Lower	53%	48%	48%	44%	45%	37%	32%	35%	39%		1.3%	-12.9%	
Sections Lower	42%	33%	35%	35%	38%	32%	29%	34%	37%		4.8%	-2.3%	
Total SCH/ Faculty FTE	753.9	704.7	694.3	638.7	653.9	662.6	633.2	628.8	646.5	688.8	2.3%	4.0%	-8.6%
w/ GTAs	636.2	465.7	470.0	419.4	452.7	456.6	439.8	426.0	462.3	490.6	3.3%	7.5%	-22.9%
Undergrad FY FTE	4547.2	4681.8	4779.8	4307.2	4529.5	4502.0	4328.6	4252.2	4405.5	4823.9	3.2%	7.1%	6.1%
Graduate FY FTE	255.0	269.0	269.4	266.0	286.9	278.0	260.6	269.6	274.0	257.5	-1.9%	-7.4%	1.0%
Total FY FTE	4802.2	4950.8	5049.2	4573.2	4816.4	4780.0	4589.2	4521.8	4679.6	5081.4	2.9%	6.3%	5.8%
Expend/Student FTE	2,875	3,010	3,081	3,476	3,404	3,558	3,873	4,014	3,886	3,683	-0.4%	3.5%	28.1%
StudFTE/FacultyFTE	25.4	23.7	23.4	21.5	22.1	22.3	21.3	21.2	21.8	23.2	2.2%	3.8%	-8.7%
w/ GTAs	21.4	15.7	15.8	14.1	15.3	15.4	14.8	14.4	15.6	16.5	3.2%	7.3%	-22.9%
Fresh/Soph Majors	924	954	999	1,006	1,015	975	942	876	1,017	1,225	9.0%	25.6%	32.6%
Jr/Sr/PostBach Majors	1,128	1,172	1,224	1,147	1,198	1,263	1,219	1,185	1,169	1,244	1.1%	-1.5%	10.3%
Second Majors	62	65	71	86	121	137	147	162	139	150	2.7%	9.5%	141.9%
Graduate Majors	352	373	389	393	428	425	423	449	453	451	1.2%	6.1%	28.1%
Total Majors	2,466	2,564	2,683	2,632	2,762	2,800	2,731	2,672	2,778	3,070	3.9%	9.6%	24.5%
Majors/Faculty FTE	13.0	12.3	12.4	12.4	12.6	13.1	12.7	12.5	12.9	14.0	3.2%	7.1%	7.5%
Bachelor's Degrees	446	450	507	471	447	518	479	511	465	463	-1.2%	-10.6%	3.8%
Masters/Spec Degrees**	89	92	105	83	56	86	80	81	77	94	8.9%	9.3%	5.6%
Doctoral Degrees**				13	12	23	21	20	18	35	32.8%	52.2%	
Total	535	542	612	567	515	627	580	612	560	592	1.2%	-5.6%	10.7%

*SCH, FTE, and university seminar counts, and ratios based upon them, changed in FY05 to consistently follow the instructor's appointment rather than the subject code.

‡ Faculty FTE and % Tenure Track calculations changed in FY03 from budgeted FTE to Fall actuals. Graduate FTE assumes each headcount graduate assistant paid through program 01 is .5 FTE

Excludes benefits expenditures

**Graduate degrees were aggregated prior to 2004-05 and shown in the masters line.

Cell Biology and Neuroscience

	2001-02	2002-03‡	2003-04	2004-05*	2005-06	2006-07	2007-08	2008-09#	2009-2010	2010-2011	Weighted Avg % Change /Yr (5 years)	5 year % change	10 year % change
Expenditures	567,343	616,326	772,816	801,799	810,877	816,745	878,670	925,728	960,901	923,286	1.8%	13.0%	62.7%
Faculty FTE	6.6	8.1	9.4	7.6	9.6	9.1	11.4	8.9	10.1	9.0	-1.3%	-0.4%	37.4%
TTT Fac FTE				6.6	8.9	6.9	10.1	7.9	7.5	6.8	0.0	0.0	
% Tenure Track	89%	78%	85%	88%	92%	76%	89%	88%	74%	75%	-2.9%	-0.7%	-15.2%
GTA FTE	1.5	4.0	3.0	6.5	4.0	4.5	3.5	4.0	3.0	3.0	-5.9%	-33.3%	95.9%
SCH Lower	3,309	3,724	4,138	3,505	3,126	3,193	3,325	3,615	3,934	4,677	11.1%	46.5%	41.3%
SCH Upper	1,163	1,774	1,164	1,054	1,241	1,654	1,595	1,828	1,823	1,809	4.3%	9.4%	55.5%
SCH Grad	121	189	168	61	123	61	124	75	73	75	3.0%	23.9%	-38.0%
Total FY SCH	4,593	5,687	5,470	4,619	4,491	4,907	5,044	5,518	5,830	6,561	8.6%	33.7%	42.8%
Univ Seminar SCH				0	0	0	0	0	0	0			
Research SCH				0	0	75	149	88	147	54		-28.0%	
% Taught by Ten Track													
SCH Lower	100%	68%	100%	75%	100%	18%	36%	41%	32%		7.7%	-68.0%	
Sections Lower	100%	67%	100%	71%	100%	36%	44%	53%	32%		-9.1%	-68.0%	
Total SCH/ Faculty FTE	698.9	700.4	584.4	609.1	466.1	541.5	443.7	617.9	575.5	726.5	13.4%	34.2%	3.9%
w/ GTAs	566.9	469.2	442.6	328.0	329.3	361.8	339.2	426.7	444.0	545.3	13.7%	50.7%	-3.8%
Undergrad FY FTE	149.1	183.3	176.7	152.0	145.6	161.6	164.0	181.4	191.9	216.2	8.8%	33.8%	45.0%
Graduate FY FTE	5.0	7.9	7.0	2.5	5.1	2.5	5.2	3.1	3.0	3.1	3.0%	23.9%	-38.0%
Total FY FTE	154.1	191.1	183.7	154.5	150.7	164.1	169.2	184.5	194.9	219.3	8.5%	33.7%	42.3%
Expend/Student FTE	3,681	3,224	4,206	5,190	5,380	4,978	5,194	5,016	4,929	4,210	-5.9%	-15.4%	14.3%
StudFTE/FacultyFTE	23.5	23.5	19.6	20.4	15.6	18.1	14.9	20.7	19.2	24.3	13.4%	34.1%	3.6%
w/ GTAs	19.0	15.8	14.9	11.0	11.1	12.1	11.4	14.3	14.8	18.2	13.6%	50.7%	-4.2%
Fresh/Soph Majors	168	177	180	178	161	190	182	168	232	150	-2.5%	-21.1%	-10.7%
Jr/Sr/PostBach Majors	129	153	152	134	155	162	167	189	182	181	2.2%	11.7%	40.3%
Second Majors	1	1	2	1	5	2	2	4	5	6	29.3%	200.0%	500.0%
Graduate Majors	13	17	16	13	11	9	6	4	5	4	-12.3%	-55.6%	-69.2%
Total Majors	311	348	350	326	332	363	357	365	424	341	-1.4%	-6.1%	9.6%
Majors/Faculty FTE	47.3	42.9	37.4	43.0	34.5	40.1	31.4	40.9	41.9	37.8	1.6%	-5.7%	-20.2%
Bachelor's Degrees	51	49	64	46	47	68	57	64	65	60	1.1%	-11.8%	17.6%
Masters/Spec Degrees**	0	0	3	1	0	0	1	0	0	0			
Doctoral Degrees**				0	1	0	2	0	0	1			
Total	51	49	67	47	48	68	60	64	65	61	0.9%	-10.3%	19.6%

*SCH, FTE, and university seminar counts, and ratios based upon them, changed in FY05 to consistently follow the instructor's appointment rather than the subject code.

‡ Faculty FTE and % Tenure Track calculations changed in FY03 from budgeted FTE to Fall actuals. Graduate FTE assumes each headcount graduate assistant paid through program 01 is .5 FTE

Excludes benefits expenditures

**Graduate degrees were aggregated prior to 2004-05 and shown in the masters line.

Chemistry and Biochemistry

	2001-02	2002-03‡	2003-04	2004-05*	2005-06	2006-07	2007-08	2008-09#	2009-2010	2010-2011	Weighted Avg % Change /Yr (5 years)	5 year % change	10 year % change
Expenditures	1,781,114	1,897,436	1,950,216	1,898,940	2,074,649	2,004,504	2,190,158	2,245,298	2,335,634	2,573,565	6.0%	28.4%	44.5%
Faculty FTE	18.5	19.4	21.2	17.5	18.9	18.3	19.4	19.3	18.9	20.6	2.9%	12.3%	11.5%
TTT Fac FTE				11.7	14.0	12.3	13.4	14.0	12.9	14.5	0.0	0.2	
% Tenure Track	95%	74%	70%	67%	74%	67%	69%	73%	69%	71%	0.2%	5.1%	-25.4%
GTA FTE	11.0	20.5	19.5	21.0	15.0	11.0	15.0	17.5	12.5	17.5	12.1%	59.1%	59.4%
SCH Lower	10,006	10,879	11,101	10,821	10,760	10,745	10,412	10,358	11,640	12,874	6.3%	19.8%	28.7%
SCH Upper	3,350	3,300	3,255	3,334	3,348	3,467	3,524	3,481	3,517	4,293	7.8%	23.8%	28.1%
SCH Grad	1,082	1,067	764	742	842	760	824	957	870	867	1.2%	14.1%	-19.9%
Total FY SCH	14,438	15,246	15,120	14,897	14,950	14,972	14,760	14,796	16,027	18,034	6.3%	20.5%	24.9%
Univ Seminar SCH				0	0	0	0	0	0	0			
Research SCH				228	218	146	247	272	174	284	20.5%	94.5%	
% Taught by Ten Track													
SCH Lower	90%	93%	83%	56%	54%	21%	4%	14%	4%		18.3%	-92.6%	
Sections Lower	89%	91%	65%	50%	55%	30%	7%	22%	7%		13.7%	-87.3%	
Total SCH/ Faculty FTE	782.3	785.1	713.9	850.4	793.1	817.2	762.6	768.3	848.6	876.5	3.3%	7.3%	12.0%
w/ GTAs	490.6	381.9	371.7	386.8	441.7	510.6	429.6	402.5	510.6	473.6	2.4%	-7.2%	-3.4%
Undergrad FY FTE	445.2	472.6	478.5	471.8	470.3	473.7	464.5	461.3	505.2	572.2	6.6%	20.8%	28.5%
Graduate FY FTE	45.1	44.5	31.8	30.9	35.1	31.7	34.3	39.9	36.3	36.1	1.2%	14.1%	-19.9%
Total FY FTE	490.3	517.1	510.4	502.8	505.4	505.4	498.9	501.2	541.5	608.4	6.2%	20.4%	24.1%
Expend/Student FTE	3,633	3,669	3,821	3,777	4,105	3,966	4,390	4,480	4,313	4,230	0.0%	6.7%	16.4%
StudFTE/FacultyFTE	26.6	26.6	24.1	28.7	26.8	27.6	25.8	26.0	28.7	29.6	3.3%	7.2%	11.3%
w/ GTAs	16.7	13.0	12.5	13.1	14.9	17.2	14.5	13.6	17.3	16.0	2.3%	-7.3%	-4.1%
Fresh/Soph Majors	20	36	39	36	52	51	45	40	65	56	8.1%	9.8%	180.0%
Jr/Sr/PostBach Majors	29	39	35	38	44	53	51	46	57	69	12.3%	30.2%	137.9%
Second Majors	1	1	3	2	6	2	5	7	4	4	12.1%	100.0%	300.0%
Graduate Majors	56	54	51	49	58	51	58	65	70	73	6.9%	43.1%	30.4%
Total Majors	106	130	128	125	160	157	159	158	196	202	7.4%	28.7%	90.6%
Majors/Faculty FTE	5.7	6.7	6.0	7.1	8.5	8.6	8.2	8.2	10.4	9.8	4.8%	14.6%	70.9%
Bachelor's Degrees	11	11	14	13	16	18	17	20	20	22	7.0%	22.2%	100.0%
Masters/Spec Degrees**	11	13	13	2	1	5	2	2	3	2	20.9%	-60.0%	-81.8%
Doctoral Degrees**				2	3	6	4	3	8	8	41.7%	33.3%	
Total	22	24	27	17	20	29	23	25	31	32	9.5%	10.3%	45.5%

*SCH, FTE, and university seminar counts, and ratios based upon them, changed in FY05 to consistently follow the instructor's appointment rather than the subject code.

‡ Faculty FTE and % Tenure Track calculations changed in FY03 from budgeted FTE to Fall actuals. Graduate FTE assumes each headcount graduate assistant paid through program 01 is .5 FTE

Excludes benefits expenditures

**Graduate degrees were aggregated prior to 2004-05 and shown in the masters line.

Earth Science

	2001-02	2002-03‡	2003-04	2004-05*	2005-06	2006-07	2007-08	2008-09#	2009-2010	2010-2011	Weighted Avg % Change /Yr (5 years)	5 year % change	10 year % change
Expenditures	829,980	937,470	1,050,050	1,021,158	1,115,718	1,202,224	1,371,977	1,281,241	1,216,724	1,135,031	-2.5%	-5.6%	36.8%
Faculty FTE	11.9	10.0	13.7	12.1	13.8	15.1	15.2	13.9	13.4	11.9	-5.7%	-21.4%	-0.6%
TTT Fac FTE				10.7	13.0	14.0	14.0	12.1	12.0	10.5	-0.1	-0.3	
% Tenure Track	100%	90%	85%	88%	94%	93%	92%	87%	90%	88%	-0.9%	-4.6%	-11.6%
GTA FTE	2.5	7.0	5.5	6.5	7.5	7.5	7.0	8.5	8.0	8.0	1.8%	6.7%	223.9%
SCH Lower	7,050	6,796	6,096	5,306	5,366	5,415	5,167	5,127	5,092	5,323	0.6%	-1.7%	-24.5%
SCH Upper	1,861	1,767	1,875	1,839	1,890	2,040	2,319	1,803	2,160	2,124	2.6%	4.1%	14.1%
SCH Grad	346	327	556	571	684	725	605	643	675	665	0.3%	-8.3%	92.2%
Total FY SCH	9,257	8,890	8,527	7,716	7,940	8,180	8,091	7,573	7,927	8,112	0.8%	-0.8%	-12.4%
Univ Seminar SCH				0	48	0	0	0	48	0			
Research SCH				246	313	452	578	497	405	363	-4.5%	-19.7%	
% Taught by Ten Track													
SCH Lower	71%	78%	35%	76%	98%	97%	72%	74%	80%		0.1%	-18.4%	
Sections Lower	50%	79%	70%	89%	97%	89%	67%	63%	78%		0.9%	-19.6%	
Total SCH/ Faculty FTE	774.7	891.7	623.8	635.3	573.7	541.2	532.7	545.0	592.3	682.8	7.3%	26.2%	-11.9%
w/ GTAs	642.0	523.9	444.8	413.8	372.1	361.7	364.7	338.2	370.7	408.0	4.4%	12.8%	-36.4%
Undergrad FY FTE	297.0	285.4	265.7	238.2	241.9	248.5	249.5	231.0	241.7	248.2	0.9%	-0.1%	-16.4%
Graduate FY FTE	14.4	13.6	23.2	23.8	28.5	30.2	25.2	26.8	28.1	27.7	0.3%	-8.3%	92.2%
Total FY FTE	311.5	299.1	288.9	262.0	270.4	278.7	274.7	257.8	269.9	275.9	0.8%	-1.0%	-11.4%
Expend/Student FTE	2,665	3,135	3,635	3,898	4,127	4,314	4,994	4,970	4,509	4,113	-3.1%	-4.6%	54.4%
StudFTE/FacultyFTE	26.1	30.0	21.1	21.6	19.5	18.4	18.1	18.6	20.2	23.2	7.3%	26.0%	-10.9%
w/ GTAs	21.6	17.6	15.1	14.0	12.7	12.3	12.4	11.5	12.6	13.9	4.4%	12.6%	-35.7%
Fresh/Soph Majors	73	53	57	67	81	84	84	80	90	88	1.9%	4.8%	20.5%
Jr/Sr/PostBach Majors	108	118	111	102	95	90	93	100	107	119	7.2%	32.2%	10.2%
Second Majors	1	1	1	1	3	7	5	8	3	4	11.5%	-42.9%	300.0%
Graduate Majors	21	24	32	39	42	54	52	56	52	53	1.7%	-1.9%	152.4%
Total Majors	203	196	201	209	221	235	234	244	252	264	3.7%	12.3%	30.0%
Majors/Faculty FTE	17.0	19.7	14.7	17.2	16.0	15.5	15.4	17.6	18.8	22.2	10.4%	42.9%	30.8%
Bachelor's Degrees	37	37	45	31	39	28	29	34	29	32	1.6%	14.3%	-13.5%
Masters/Spec Degrees**	5	5	5	6	2	7	6	14	5	11	64.3%	57.1%	120.0%
Doctoral Degrees**				0	0	2	0	1	1	2		0.0%	
Total	42	42	50	37	41	37	35	49	35	45	8.5%	21.6%	7.1%

*SCH, FTE, and university seminar counts, and ratios based upon them, changed in FY05 to consistently follow the instructor's appointment rather than the subject code.

‡ Faculty FTE and % Tenure Track calculations changed in FY03 from budgeted FTE to Fall actuals. Graduate FTE assumes each headcount graduate assistant paid through program 01 is .5 FTE

Excludes benefits expenditures

**Graduate degrees were aggregated prior to 2004-05 and shown in the masters line.

Ecology

	2001-02	2002-03‡	2003-04	2004-05*	2005-06	2006-07	2007-08	2008-09#	2009-2010	2010-2011	Weighted Avg % Change /Yr (5 years)	5 year % change	10 year % change
Expenditures	965,371	980,950	1,050,814	1,196,252	1,169,388	1,173,622	1,173,421	1,145,702	1,185,251	1,204,937	1.0%	2.7%	24.8%
Faculty FTE	13.3	14.3	14.4	15.0	14.7	14.5	13.5	12.8	12.4	12.2	-3.4%	-15.6%	-8.4%
TTT Fac FTE				12.0	11.7	11.3	9.7	9.5	9.8	9.7	0.0	-0.1	
% Tenure Track	92%	76%	72%	80%	80%	78%	71%	74%	79%	79%	1.3%	1.0%	-14.2%
GTA FTE	1.5	8.5	7.5	7.0	4.0	5.0	4.5	6.0	5.5	5.0		0.0%	224.3%
SCH Lower	4,695	4,106	3,624	3,335	3,241	3,249	3,267	3,194	3,459	3,614	3.3%	11.2%	-23.0%
SCH Upper	2,143	2,005	1,781	1,751	1,829	1,524	1,628	1,531	1,526	1,581	-0.3%	3.7%	-26.2%
SCH Grad	686	732	885	851	839	689	534	547	630	593	-1.6%	-13.9%	-13.6%
Total FY SCH	7,524	6,843	6,290	5,937	5,910	5,462	5,430	5,272	5,615	5,788	1.6%	6.0%	-23.1%
Univ Seminar SCH				0	0	0	0	0	0	0			
Research SCH				71	81	119	87	118	100	111	6.3%	-6.7%	
% Taught by Ten Track													
SCH Lower	78%	82%	100%	100%	100%	64%	23%	24%	47%		15.5%	-53.0%	
Sections Lower	50%	64%	100%	100%	100%	47%	33%	25%	57%		23.2%	-43.0%	
Total SCH/ Faculty FTE	564.1	478.2	438.3	395.8	402.6	377.3	401.1	411.9	452.3	474.0	5.2%	25.6%	-16.0%
w/ GTAs	505.7	300.0	287.9	269.9	316.4	280.5	301.0	280.4	313.5	336.3	4.4%	19.9%	-33.5%
Undergrad FY FTE	227.9	203.7	180.2	169.5	169.0	159.1	163.2	157.5	166.2	173.2	2.1%	8.8%	-24.0%
Graduate FY FTE	28.6	30.5	36.9	35.5	35.0	28.7	22.3	22.8	26.3	24.7	-1.6%	-13.9%	-13.6%
Total FY FTE	256.5	234.2	217.0	205.0	204.0	187.8	185.4	180.3	192.4	197.9	1.5%	5.4%	-22.9%
Expend/Student FTE	3,763	4,189	4,842	5,836	5,733	6,249	6,328	6,354	6,160	6,089	-0.3%	-2.6%	61.8%
StudFTE/FacultyFTE	19.2	16.4	15.1	13.7	13.9	13.0	13.7	14.1	15.5	16.2	5.1%	24.9%	-15.8%
w/ GTAs	17.2	10.3	9.9	9.3	10.9	9.6	10.3	9.6	10.7	11.5	4.3%	19.2%	-33.3%
Fresh/Soph Majors	131	124	121	122	104	102	94	89	114	154	16.9%	51.0%	17.6%
Jr/Sr/PostBach Majors	143	114	124	113	125	105	121	106	104	112	0.5%	6.7%	-21.7%
Second Majors	5	3	4	5	8	6	10	5	6	8	13.7%	33.3%	60.0%
Graduate Majors	55	58	62	64	65	55	57	60	56	50	-4.8%	-9.1%	-9.1%
Total Majors	334	299	311	304	302	268	282	260	280	324	5.7%	20.9%	-3.0%
Majors/Faculty FTE	25.0	20.9	21.7	20.3	20.6	18.5	20.8	20.3	22.6	26.5	9.3%	43.3%	5.9%
Bachelor's Degrees	57	53	48	40	53	35	59	47	46	45	1.5%	28.6%	-21.1%
Masters/Spec Degrees**	9	12	16	7	10	8	11	5	3	11	71.0%	37.5%	22.2%
Doctoral Degrees**				3	4	3	4	7	1	5	128.3%	66.7%	
Total	66	65	64	50	67	46	74	59	50	61	5.2%	32.6%	-7.6%

*SCH, FTE, and university seminar counts, and ratios based upon them, changed in FY05 to consistently follow the instructor's appointment rather than the subject code.

‡ Faculty FTE and % Tenure Track calculations changed in FY03 from budgeted FTE to Fall actuals. Graduate FTE assumes each headcount graduate assistant paid through program 01 is .5 FTE

Excludes benefits expenditures

**Graduate degrees were aggregated prior to 2004-05 and shown in the masters line.

English

	2001-02	2002-03‡	2003-04	2004-05*	2005-06	2006-07	2007-08	2008-09#	2009-2010	2010-2011	Weighted Avg % Change /Yr (5 years)	5 year % change	10 year % change
Expenditures	1,141,247	1,240,849	1,209,389	1,310,659	1,341,708	1,385,960	1,271,968	1,481,104	1,394,812	1,490,803	3.2%	7.6%	30.6%
Faculty FTE	20.1	23.9	22.6	24.0	23.4	24.3	22.4	23.2	22.9	25.6	3.6%	5.4%	27.4%
TTT Fac FTE				15.8	14.2	13.5	11.7	13.8	12.9	14.4	0.0	0.1	
% Tenure Track	87%	66%	64%	66%	61%	55%	52%	60%	56%	56%	-0.2%	1.0%	-35.9%
GTA FTE	1.0	6.5	5.0	5.0	7.0	7.0	5.0	7.0	5.5	5.0	-4.6%	-28.6%	379.7%
SCH Lower	11,355	10,677	11,589	11,543	11,673	11,428	11,076	10,702	10,654	10,962	-0.4%	-4.1%	-3.5%
SCH Upper	2,623	2,559	2,550	2,336	2,576	2,543	2,295	2,446	2,255	2,919	7.7%	14.8%	11.3%
SCH Grad	199	263	254	231	282	320	267	291	315	250	-4.2%	-21.9%	25.6%
Total FY SCH	14,177	13,499	14,393	14,110	14,531	14,291	13,638	13,439	13,224	14,131	0.8%	-1.1%	-0.3%
Univ Seminar SCH				42	96	0	48	0	0	0			
Research SCH				387	504	429	411	366	351	418	1.5%	-2.6%	
% Taught by Ten Track													
SCH Lower	36%	32%	28%	32%	29%	23%	22%	22%	19%		-8.8%	-34.5%	
Sections Lower	100%	24%	25%	32%	28%	21%	21%	18%	18%		-8.0%	-35.7%	
Total SCH/ Faculty FTE	704.7	565.3	637.0	588.0	620.5	587.7	608.1	580.0	578.1	551.3	-2.4%	-6.2%	-21.8%
w/ GTAs	669.9	444.3	521.6	486.6	477.7	456.3	497.2	445.4	466.1	461.3	-0.3%	1.1%	-31.1%
Undergrad FY FTE	465.9	441.2	471.3	462.6	475.0	465.7	445.7	438.3	430.3	462.7	1.0%	-0.6%	-0.7%
Graduate FY FTE	8.3	11.0	10.6	9.6	11.8	13.3	11.1	12.1	13.1	10.4	-4.2%	-21.9%	25.6%
Total FY FTE	474.2	452.2	481.9	472.3	486.7	479.0	456.8	450.4	443.4	473.1	0.8%	-1.2%	-0.2%
Expend/Student FTE	2,407	2,744	2,510	2,775	2,757	2,893	2,784	3,288	3,146	3,151	2.3%	8.9%	30.9%
StudFTE/FacultyFTE	23.6	18.9	21.3	19.7	20.8	19.7	20.4	19.4	19.4	18.5	-2.5%	-6.3%	-21.7%
w/ GTAs	22.4	14.9	17.5	16.3	16.0	15.3	16.7	14.9	15.6	15.4	-0.3%	1.0%	-31.1%
Fresh/Soph Majors	89	93	112	86	90	77	99	105	82	104	7.2%	35.1%	16.9%
Jr/Sr/PostBach Majors	138	133	134	129	146	137	120	118	111	134	2.9%	-2.2%	-2.9%
Second Majors	6	3	2	4	6	8	8	9	10	14	21.0%	75.0%	133.3%
Graduate Majors	13	18	17	15	20	20	15	21	20	18	0.1%	-10.0%	38.5%
Total Majors	246	247	265	234	262	242	242	253	223	270	4.3%	11.6%	9.8%
Majors/Faculty FTE	12.2	10.3	11.7	9.8	11.2	10.0	10.8	10.9	9.7	10.5	0.4%	5.8%	-13.9%
Bachelor's Degrees	54	43	60	40	44	56	43	49	40	47	2.4%	-16.1%	-13.0%
Masters/Spec Degrees**	5	5	10	2	7	7	6	7	10	10	12.9%	42.9%	100.0%
Doctoral Degrees**				0	0	0	0	0	0	0			
Total	59	48	70	42	51	63	49	56	50	57	3.3%	-9.5%	-3.4%

*SCH, FTE, and university seminar counts, and ratios based upon them, changed in FY05 to consistently follow the instructor's appointment rather than the subject code.

‡ Faculty FTE and % Tenure Track calculations changed in FY03 from budgeted FTE to Fall actuals. Graduate FTE assumes each headcount graduate assistant paid through program 01 is .5 FTE

Excludes benefits expenditures

**Graduate degrees were aggregated prior to 2004-05 and shown in the masters line.

History and Philosophy

	2001-02	2002-03‡	2003-04	2004-05*	2005-06	2006-07	2007-08	2008-09#	2009-2010	2010-2011	Weighted Avg % Change /Yr (5 years)	5 year % change	10 year % change
Expenditures	1,038,646	1,122,471	1,232,287	1,291,820	1,306,732	1,384,548	1,601,583	1,501,635	1,492,047	1,647,532	4.5%	19.0%	58.6%
Faculty FTE	18.8	19.9	20.1	21.9	20.1	19.6	22.6	20.6	20.5	22.8	3.8%	16.6%	21.8%
TTT Fac FTE				17.6	17.6	17.1	19.5	18.1	18.5	20.3	0.0	0.2	
% Tenure Track	95%	79%	82%	80%	88%	87%	86%	88%	90%	89%	0.5%	2.3%	-5.8%
GTA FTE	0.8	3.0	2.0	2.5	4.0	2.0	2.0	2.5	3.5	5.0	26.6%	150.0%	539.1%
SCH Lower	11,022	13,063	14,180	11,622	12,662	11,725	10,522	8,694	9,703	10,032	-1.1%	-14.4%	-9.0%
SCH Upper	3,207	3,260	3,354	3,829	4,050	4,283	4,106	4,274	4,216	4,393	1.7%	2.6%	37.0%
SCH Grad	437	335	349	361	410	364	332	418	438	460	6.2%	26.4%	5.3%
Total FY SCH	14,666	16,658	17,883	15,812	17,122	16,372	14,960	13,386	14,357	14,885	-0.4%	-9.1%	1.5%
Univ Seminar SCH				177	134	147	93	93	93	144	14.1%	-2.0%	
Research SCH				405	226	227	349	376	279	371	12.9%	63.4%	
% Taught by Ten Track													
SCH Lower	61%	52%	70%	70%	77%	68%	57%	38%	42%		-9.5%	-45.5%	
Sections Lower	76%	54%	69%	62%	76%	69%	60%	38%	40%		-10.4%	-47.4%	
Total SCH/ Faculty FTE	782.0	835.8	887.9	723.4	853.6	835.6	662.1	650.9	700.0	651.7	-3.5%	-22.0%	-16.7%
w/ GTAs	750.7	726.5	807.7	649.1	711.6	758.2	608.3	580.4	598.0	534.7	-5.8%	-29.5%	-28.8%
Undergrad FY FTE	474.3	544.1	584.5	515.0	557.1	533.6	487.6	432.3	464.0	480.8	-0.5%	-9.9%	1.4%
Graduate FY FTE	18.2	14.0	14.5	15.0	17.1	15.2	13.8	17.4	18.3	19.2	6.2%	26.4%	5.3%
Total FY FTE	492.5	558.1	599.0	530.1	574.1	548.8	501.4	449.7	482.2	500.0	-0.3%	-8.9%	1.5%
Expend/Student FTE	2,109	2,011	2,057	2,437	2,276	2,523	3,194	3,339	3,094	3,295	5.4%	30.6%	56.2%
StudFTE/FacultyFTE	26.3	28.0	29.7	24.2	28.6	28.0	22.2	21.9	23.5	21.9	-3.5%	-21.8%	-16.6%
w/ GTAs	25.2	24.3	27.1	21.8	23.9	25.4	20.4	19.5	20.1	18.0	-5.8%	-29.3%	-28.8%
Fresh/Soph Majors	50	51	61	73	97	99	83	86	78	99	5.2%	0.0%	98.0%
Jr/Sr/PostBach Majors	101	94	107	109	112	157	143	131	135	145	3.1%	-7.6%	43.6%
Second Majors	11	5	6	5	11	19	15	17	16	18	7.3%	-5.3%	63.6%
Graduate Majors	26	21	21	18	25	21	26	30	30	24	-1.5%	14.3%	-7.7%
Total Majors	188	171	195	205	245	296	267	264	259	286	2.8%	-3.4%	52.1%
Majors/Faculty FTE	10.0	8.6	9.7	9.4	12.2	15.1	11.8	12.8	12.6	12.5	-0.3%	-17.1%	24.9%
Bachelor's Degrees	42	36	36	45	44	65	51	61	51	65	9.0%	0.0%	54.8%
Masters/Spec Degrees**	11	7	9	8	5	6	3	7	12	4	18.2%	-33.3%	-63.6%
Doctoral Degrees**				0	0	0	0	0	0	0			
Total	53	43	45	53	49	71	54	68	63	69	6.2%	-2.8%	30.2%

*SCH, FTE, and university seminar counts, and ratios based upon them, changed in FY05 to consistently follow the instructor's appointment rather than the subject code.

‡ Faculty FTE and % Tenure Track calculations changed in FY03 from budgeted FTE to Fall actuals. Graduate FTE assumes each headcount graduate assistant paid through program 01 is .5 FTE

Excludes benefits expenditures

**Graduate degrees were aggregated prior to 2004-05 and shown in the masters line.

Mathematical Sciences

	2001-02	2002-03‡	2003-04	2004-05*	2005-06	2006-07	2007-08	2008-09#	2009-2010	2010-2011	Weighted Avg % Change /Yr (5 years)	5 year % change	10 year % change
Expenditures	2,380,409	2,498,625	2,538,488	2,731,877	2,905,151	2,880,607	2,917,487	3,142,455	3,087,710	3,133,298	1.7%	8.8%	31.6%
Faculty FTE	30.5	35.4	35.8	34.6	36.1	30.6	34.1	34.5	34.4	35.9	2.1%	17.2%	17.8%
TTT Fac FTE				23.7	27.1	22.6	23.2	25.6	24.6	23.6	0.0	0.0	
% Tenure Track	93%	69%	66%	68%	75%	74%	68%	74%	72%	66%	-3.0%	-10.9%	-29.3%
GTA FTE **	8.6	22.5	24.5	27.5	28.5	32.0	29.0	28.0	26.0	23.0	-6.9%	-28.1%	168.7%
SCH Lower	28,009	28,617	28,539	24,682	27,620	26,369	25,337	25,169	25,219	29,673	5.0%	12.5%	5.9%
SCH Upper	1,127	1,280	1,239	1,155	1,266	1,359	1,342	1,189	1,100	1,092	-4.2%	-19.7%	-3.1%
SCH Grad	1,362	1,425	1,342	1,459	1,592	1,481	1,427	1,410	1,347	1,234	-5.2%	-16.7%	-9.4%
Total FY SCH	30,498	31,322	31,120	27,296	30,478	29,209	28,106	27,768	27,666	31,999	4.1%	9.6%	4.9%
Univ Seminar SCH				0	48	0	0	0	138	138			
Research SCH				3	6	34	59	15	18	59	107.3%	73.5%	
% Taught by Ten Track													
SCH Lower	29%	23%	20%	21%	23%	25%	16%	29%	30%		17.4%	30.4%	
Sections Lower	30%	22%	20%	21%	24%	25%	15%	32%	30%		21.6%	25.0%	
Total SCH/ Faculty FTE	1001.4	884.3	870.3	788.5	844.3	954.0	825.1	805.3	803.8	891.9	2.2%	-6.5%	-10.9%
w/ GTAs	781.7	540.8	516.4	439.4	471.8	466.5	445.7	444.4	457.9	543.5	6.3%	16.5%	-30.5%
Undergrad FY FTE	971.2	996.6	992.6	861.2	962.9	924.3	889.3	878.6	877.3	1025.5	4.6%	11.0%	5.6%
Graduate FY FTE	56.8	59.4	55.9	60.8	66.3	61.7	59.5	58.7	56.1	51.4	-5.2%	-16.7%	-9.4%
Total FY FTE	1028.0	1055.9	1048.5	922.0	1029.2	986.0	948.8	937.4	933.4	1076.9	4.0%	9.2%	4.8%
Expend/Student FTE	2,316	2,366	2,421	2,963	2,823	2,922	3,075	3,352	3,308	2,910	-1.6%	-0.4%	25.6%
StudFTE/FacultyFTE	33.8	29.8	29.3	26.6	28.5	32.2	27.9	27.2	27.1	30.0	2.1%	-6.8%	-11.1%
w/ GTAs	26.3	18.2	17.4	14.8	15.9	15.7	15.0	15.0	15.4	18.3	6.2%	16.2%	-30.6%
Fresh/Soph Majors	33	31	32	28	34	27	24	20	25	39	19.1%	44.4%	18.2%
Jr/Sr/PostBach Majors	52	59	61	49	61	69	60	40	40	45	-3.4%	-34.8%	-13.5%
Second Majors	5	10	8	9	12	9	14	14	9	15	18.4%	66.7%	200.0%
Graduate Majors	71	68	74	78	90	94	90	88	88	78	-4.5%	-17.0%	9.9%
Total Majors	161	168	175	164	197	199	188	162	162	177	-0.3%	-11.1%	9.9%
Majors/Faculty FTE	5.3	4.7	4.9	4.7	5.5	6.5	5.5	4.7	4.7	4.9	-2.1%	-24.1%	-6.7%
Bachelor's Degrees	15	25	19	19	26	25	23	28	12	13	-9.4%	-48.0%	-13.3%
Masters/Spec Degrees**	16	26	21	18	9	22	30	19	24	22	11.4%	0.0%	37.5%
Doctoral Degrees**				3	1	5	3	2	6	2	45.8%	-60.0%	
Total	31	51	40	40	36	52	56	49	42	37	-6.3%	-28.8%	19.4%

*SCH, FTE, and university seminar counts, and ratios based upon them, changed in FY05 to consistently follow the instructor's appointment rather than the subject code.

‡ Faculty FTE and % Tenure Track calculations changed in FY03 from budgeted FTE to Fall actuals. Graduate FTE assumes each headcount graduate assistant paid through program 01 is .5 FTE

Excludes benefits expenditures

**Graduate degrees were aggregated prior to 2004-05 and shown in the masters line.

Microbiology

	2001-02	2002-03‡	2003-04	2004-05*	2005-06	2006-07	2007-08	2008-09#	2009-2010	2010-2011	Weighted Avg % Change /Yr (5 years)	5 year % change	10 year % change
Expenditures	691,691	800,182	917,482	892,324	809,735	880,608	882,839	841,624	756,300	775,343	-2.2%	-12.0%	12.1%
Faculty FTE	9.2	8.2	12.1	8.8	8.9	9.4	10.1	6.7	8.1	7.6	-1.9%	-19.5%	-17.1%
TTT Fac FTE				7.5	7.2	7.2	8.2	6.5	6.3	5.7	-0.1	-0.2	
% Tenure Track	75%	73%	77%	85%	80%	76%	81%	97%	78%	75%	-2.2%	-1.5%	-0.7%
GTA FTE	1.3	2.0	3.0	3.0	3.0	3.5	3.0	2.0	1.5	1.5	-14.1%	-57.1%	18.7%
SCH Lower	2,328	2,542	2,901	2,026	2,234	2,060	1,845	1,978	2,074	2,229	3.3%	8.2%	-4.3%
SCH Upper	1,528	1,648	2,124	1,944	2,191	2,288	2,117	2,343	1,913	1,992	-2.1%	-12.9%	30.4%
SCH Grad	333	391	493	352	317	452	383	371	386	372	0.0%	-17.7%	11.7%
Total FY SCH	4,189	4,581	5,518	4,322	4,742	4,800	4,345	4,692	4,373	4,593	0.3%	-4.3%	9.6%
Univ Seminar SCH				0	0	0	0	0	0	0			
Research SCH				94	152	141	164	75	39	34	-26.2%	-75.9%	
% Taught by Ten Track													
SCH Lower	35%	40%	51%	54%	63%	54%	42%	33%	26%		-18.0%	-58.7%	
Sections Lower	25%	50%	50%	50%	60%	71%	50%	45%	11%		-30.0%	-81.7%	
Total SCH/ Faculty FTE	456.3	559.3	456.4	489.6	530.8	508.2	431.4	698.5	539.3	603.8	8.0%	18.8%	32.3%
w/ GTAs	401.1	449.6	365.7	365.4	397.4	370.8	332.4	538.2	455.1	504.3	10.0%	36.0%	25.7%
Undergrad FY FTE	128.5	139.7	167.5	132.3	147.5	144.9	132.1	144.0	132.9	140.7	0.4%	-2.9%	9.5%
Graduate FY FTE	13.9	16.3	20.5	14.7	13.2	18.8	16.0	15.5	16.1	15.5	0.0%	-17.7%	11.7%
Total FY FTE	142.4	156.0	188.0	147.0	160.7	163.8	148.0	159.5	149.0	156.2	0.3%	-4.6%	9.7%
Expend/Student FTE	4,857	5,131	4,879	6,070	5,039	5,377	5,964	5,277	5,076	4,964	-2.2%	-7.7%	2.2%
StudFTE/FacultyFTE	15.5	19.0	15.6	16.7	18.0	17.3	14.7	23.7	18.4	20.5	7.9%	18.4%	32.4%
w/ GTAs	13.6	15.3	12.5	12.4	13.5	12.7	11.3	18.3	15.5	17.2	10.0%	35.6%	25.8%
Fresh/Soph Majors	32	33	32	50	43	41	36	32	42	44	5.8%	7.3%	37.5%
Jr/Sr/PostBach Majors	45	49	49	53	55	63	77	78	61	59	-2.7%	-6.3%	31.1%
Second Majors	1	1	0	1	0	2	2	1	3	4		100.0%	300.0%
Graduate Majors	16	19	25	22	23	28	25	23	20	25	3.3%	-10.7%	56.3%
Total Majors	94	102	106	126	121	134	140	134	126	132	0.5%	-1.5%	40.4%
Majors/Faculty FTE	10.2	12.5	8.8	14.3	13.5	14.2	13.9	19.9	15.5	17.4	6.7%	22.3%	69.5%
Bachelor's Degrees	16	19	19	21	20	23	18	31	21	16	-4.0%	-30.4%	0.0%
Masters/Spec Degrees**	6	0	6	0	0	2	2	4	1	1		-50.0%	-83.3%
Doctoral Degrees**				2	1	5	3	2	0	4		-20.0%	
Total	22	19	25	23	21	30	23	37	22	21	-0.4%	-30.0%	-4.5%

*SCH, FTE, and university seminar counts, and ratios based upon them, changed in FY05 to consistently follow the instructor's appointment rather than the subject code.

‡ Faculty FTE and % Tenure Track calculations changed in FY03 from budgeted FTE to Fall actuals. Graduate FTE assumes each headcount graduate assistant paid through program 01 is .5 FTE

Excludes benefits expenditures

**Graduate degrees were aggregated prior to 2004-05 and shown in the masters line.

Modern Languages and Literatures

	2001-02	2002-03‡	2003-04	2004-05*	2005-06	2006-07	2007-08	2008-09#	2009-2010	2010-2011	Weighted Avg % Change /Yr (5 years)	5 year % change	10 year % change
Expenditures	553,113	636,241	608,454	620,023	710,562	726,383	737,081	779,403	863,555	820,676	2.7%	13.0%	48.4%
Faculty FTE	8.8	14.8	13.6	14.7	16.2	16.4	15.4	15.2	15.0	15.1	-1.2%	-8.0%	72.2%
TTT Fac FTE				7.0	8.7	8.0	8.0	9.0	10.5	9.5	0.0	0.2	
% Tenure Track	84%	54%	54%	48%	54%	49%	52%	59%	70%	63%	4.6%	29.1%	-25.3%
GTA FTE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
SCH Lower	3,559	3,620	3,755	4,343	4,638	4,672	4,312	4,535	5,376	5,590	6.3%	19.6%	57.1%
SCH Upper	984	980	1,048	1,128	1,441	1,434	1,470	1,638	1,437	1,809	7.9%	26.2%	83.8%
SCH Grad	6	6	3	9	12	6	9	18	12	6	-2.2%	0.0%	0.0%
Total FY SCH	4,549	4,606	4,806	5,480	6,091	6,112	5,791	6,191	6,825	7,405	6.3%	21.2%	62.8%
Univ Seminar SCH				0	0	45	0	0	0	0		-100.0%	
Research SCH				4	70	44	141	183	145	109	19.1%	147.7%	
% Taught by Ten Track													
SCH Lower	34%	28%	32%	24%	23%	10%	16%	21%	45%		50.6%	95.7%	
Sections Lower	0%	32%	35%	31%	28%	17%	14%	27%	45%		37.6%	60.7%	
Total SCH/ Faculty FTE	519.5	310.8	352.2	373.7	376.5	372.6	375.7	408.2	453.8	491.0	7.5%	31.8%	-5.5%
w/ GTAs	519.5	310.8	352.2	373.7	376.5	372.6	375.7	408.2	453.8	491.0	7.5%	31.8%	-5.5%
Undergrad FY FTE	151.4	153.3	160.1	182.4	202.6	203.5	192.7	205.8	227.1	246.6	6.3%	21.2%	62.9%
Graduate FY FTE	0.3	0.3	0.1	0.4	0.5	0.3	0.4	0.8	0.5	0.3	-2.2%	0.0%	0.0%
Total FY FTE	151.7	153.6	160.2	182.7	203.1	203.8	193.1	206.5	227.6	246.9	6.3%	21.1%	62.8%
Expend/Student FTE	3,646	4,143	3,797	3,393	3,498	3,564	3,817	3,774	3,794	3,324	-3.1%	-6.7%	-8.8%
StudFTE/FacultyFTE	17.3	10.4	11.7	12.5	12.6	12.4	12.5	13.6	15.1	16.4	7.5%	31.7%	-5.5%
w/ GTAs	17.3	10.4	11.7	12.5	12.6	12.4	12.5	13.6	15.1	16.4	7.5%	31.7%	-5.5%
Fresh/Soph Majors	18	29	37	40	37	28	18	16	25	15	-6.9%	-46.4%	-16.7%
Jr/Sr/PostBach Majors	49	55	51	58	62	62	58	50	41	53	1.3%	-14.5%	8.2%
Second Majors	14	20	24	38	43	64	63	75	61	49	-4.7%	-23.4%	250.0%
Graduate Majors	0	0	0	0	0	0	0	0	0	0			
Total Majors	81	104	112	136	142	154	139	141	127	117	-5.7%	-24.0%	44.4%
Majors/Faculty FTE	9.3	7.0	8.2	9.3	8.8	9.4	9.0	9.3	8.4	7.8	-4.6%	-17.4%	-16.1%
Bachelor's Degrees	25	37	28	41	26	31	41	45	37	29	-4.4%	-6.5%	16.0%
Masters/Spec Degrees**	0	0	0	0	0	0	0	0	0	0			
Doctoral Degrees**				0	0	0	0	0	0	0			
Total	25	37	28	41	26	31	41	45	37	29	-4.4%	-6.5%	16.0%

*SCH, FTE, and university seminar counts, and ratios based upon them, changed in FY05 to consistently follow the instructor's appointment rather than the subject code.

‡ Faculty FTE and % Tenure Track calculations changed in FY03 from budgeted FTE to Fall actuals. Graduate FTE assumes each headcount graduate assistant paid through program 01 is .5 FTE

Excludes benefits expenditures

**Graduate degrees were aggregated prior to 2004-05 and shown in the masters line.

Native American Studies

	2001-02	2002-03‡	2003-04	2004-05*	2005-06	2006-07	2007-08	2008-09#	2009-2010	2010-2011	Weighted Avg % Change /Yr (5 years)	5 year % change	10 year % change
Expenditures	326,751	353,226	318,166	337,901	432,100	500,190	499,541	508,775	511,768	562,312	4.9%	12.4%	72.1%
Faculty FTE	4.5	4.8	3.9	5.0	5.0	5.3	5.5	5.0	5.0	5.0	-0.8%	-4.8%	10.8%
TTT Fac FTE				3.0	4.0	4.0	5.0	5.0	5.0	5.0	0.0	0.3	
% Tenure Track	100%	84%	100%	60%	80%	76%	91%	100%	100%	100%	4.3%	31.3%	0.0%
GTA FTE	0.0	2.0	2.5	2.0	2.0	1.5	1.0	2.0	1.5	2.0	18.3%	33.3%	
SCH Lower	1,869	1,830	1,863	2,087	2,618	3,220	2,550	2,355	2,547	2,712	1.6%	-15.8%	45.1%
SCH Upper	1,539	1,309	1,296	915	554	551	660	653	709	763	7.2%	38.5%	-50.4%
SCH Grad	142	179	246	275	144	97	99	140	163	289	36.5%	197.9%	103.5%
Total FY SCH	3,550	3,318	3,405	3,277	3,316	3,868	3,309	3,148	3,419	3,764	3.9%	-2.7%	6.0%
Univ Seminar SCH				48	48	96	0	0	51	51		-46.9%	
Research SCH				37	37	39	34	19	26	24	-2.9%	-38.5%	
% Taught by Ten Track													
SCH Lower	0%	16%	18%	20%	21%	12%	54%	31%	56%		80.1%	166.7%	
Sections Lower	0%	22%	29%	29%	42%	22%	56%	40%	58%		34.9%	38.1%	
Total SCH/ Faculty FTE	786.4	698.5	880.5	655.4	663.2	736.8	601.6	629.6	683.8	752.8	4.9%	2.2%	-4.3%
w/ GTAs	786.4	491.6	534.8	468.1	473.7	573.0	509.1	449.7	526.0	537.7	2.8%	-6.2%	-31.6%
Undergrad FY FTE	113.6	104.6	105.3	100.1	105.7	125.7	107.0	100.3	108.5	115.8	2.5%	-7.8%	2.0%
Graduate FY FTE	5.9	7.5	10.3	11.5	6.0	4.0	4.1	5.8	6.8	12.0	36.5%	197.9%	103.5%
Total FY FTE	119.5	112.1	115.6	111.5	111.7	129.7	111.1	106.1	115.3	127.9	4.2%	-1.4%	7.0%
Expend/Student FTE	2,734	3,151	2,753	3,030	3,867	3,855	4,495	4,795	4,438	4,397	1.2%	14.1%	60.8%
StudFTE/FacultyFTE	26.5	23.6	29.9	22.3	22.3	24.7	20.2	21.2	23.1	25.6	5.2%	3.5%	-3.4%
w/ GTAs	26.5	16.6	18.1	15.9	16.0	19.2	17.1	15.2	17.7	18.3	3.2%	-5.0%	-31.0%
Fresh/Soph Majors	0	0	0	0	0	0	0	0	0	0			
Jr/Sr/PostBach Majors	0	0	0	0	0	0	0	0	0	0			
Second Majors	0	0	0	0	0	0	0	0	0	0			
Graduate Majors	9	12	13	17	9	4	5	8	13	27	64.2%	575.0%	200.0%
Total Majors	9	12	13	17	9	4	5	8	13	27	64.2%	575.0%	200.0%
Majors/Faculty FTE	2.0	2.5	3.4	3.4	1.8	0.8	0.9	1.6	2.6	5.4	66.5%	608.8%	170.8%
Bachelor's Degrees	0	0	0	0	0	0	0	0	0	0			
Masters/Spec Degrees**	0	3	1	11	7	2	0	3	0	7		250.0%	
Doctoral Degrees**				0	0	0	0	0	0	0			
Total	0	3	1	11	7	2	0	3	0	7		250.0%	

*SCH, FTE, and university seminar counts, and ratios based upon them, changed in FY05 to consistently follow the instructor's appointment rather than the subject code.

‡ Faculty FTE and % Tenure Track calculations changed in FY03 from budgeted FTE to Fall actuals. Graduate FTE assumes each headcount graduate assistant paid through program 01 is .5 FTE

Excludes benefits expenditures

**Graduate degrees were aggregated prior to 2004-05 and shown in the masters line.

Physics

	2001-02	2002-03‡	2003-04	2004-05*	2005-06	2006-07	2007-08	2008-09#	2009-2010	2010-2011	Weighted Avg % Change /Yr (5 years)	5 year % change	10 year % change
Expenditures	1,513,299	1,674,132	1,585,181	1,604,110	1,654,223	1,758,882	1,844,058	1,912,550	1,907,647	1,971,199	2.9%	12.1%	30.3%
Faculty FTE	17.9	16.6	15.4	16.1	18.3	17.4	16.8	16.3	17.1	18.1	1.8%	3.6%	1.0%
TTT Fac FTE				15.1	16.0	15.7	15.5	14.3	15.1	15.5	0.0	0.0	
% Tenure Track	94%	86%	94%	94%	87%	90%	92%	88%	88%	86%	-1.2%	-4.8%	-9.0%
GTA FTE	5.6	14.5	14.5	17.5	11.5	12.0	14.0	13.5	13.5	12.0	-1.9%	0.0%	113.7%
SCH Lower	10,093	9,937	10,287	9,731	10,095	10,163	9,891	9,690	10,050	11,333	4.5%	11.5%	12.3%
SCH Upper	700	919	771	685	741	800	864	847	807	776	-1.3%	-2.9%	10.9%
SCH Grad	858	951	885	957	1,106	1,128	1,099	1,117	1,060	704	-12.4%	-37.6%	-17.9%
Total FY SCH	11,651	11,807	11,943	11,373	11,941	12,091	11,854	11,654	11,917	12,813	2.6%	6.0%	10.0%
Univ Seminar SCH				0	45	48	0	64	60	0		-100.0%	
Research SCH				108	160	196	167	130	148	168	3.3%	-14.3%	
% Taught by Ten Track													
SCH Lower	98%	63%	87%	70%	49%	61%	59%	53%	55%		-0.8%	12.2%	
Sections Lower	92%	59%	93%	75%	64%	69%	67%	71%	67%		-0.8%	4.7%	
Total SCH/ Faculty FTE	650.9	710.8	775.4	706.1	652.5	693.2	705.9	713.4	696.4	708.8	0.8%	2.2%	8.9%
w/ GTAs	495.5	379.5	399.4	338.4	400.7	410.7	385.0	390.6	389.3	426.0	2.7%	3.7%	-14.0%
Undergrad FY FTE	359.8	361.9	368.6	347.2	361.2	365.4	358.5	351.2	361.9	403.6	4.1%	10.5%	12.2%
Graduate FY FTE	35.8	39.6	36.9	39.9	46.1	47.0	45.8	46.5	44.2	29.3	-12.4%	-37.6%	-17.9%
Total FY FTE	395.5	401.5	405.5	387.1	407.2	412.4	404.3	397.8	406.1	433.0	2.3%	5.0%	9.5%
Expend/Student FTE	3,826	4,170	3,909	4,144	4,062	4,265	4,561	4,808	4,698	4,553	0.7%	6.8%	19.0%
StudFTE/FacultyFTE	22.1	24.2	26.3	24.0	22.3	23.6	24.1	24.4	23.7	23.9	0.5%	1.3%	8.4%
w/ GTAs	16.8	12.9	13.6	11.5	13.7	14.0	13.1	13.3	13.3	14.4	2.3%	2.8%	-14.4%
Fresh/Soph Majors	23	24	29	27	29	25	31	26	31	49	23.5%	96.0%	113.0%
Jr/Sr/PostBach Majors	38	47	42	38	37	42	47	49	46	36	-5.5%	-14.3%	-5.3%
Second Majors	5	5	5	2	4	4	2	1	2	5	60.0%	25.0%	0.0%
Graduate Majors	48	47	45	47	53	56	58	59	60	52	-2.8%	-7.1%	8.3%
Total Majors	114	123	121	114	123	127	138	135	139	142	2.4%	11.8%	24.6%
Majors/Faculty FTE	6.4	7.4	7.9	7.1	6.7	7.3	8.2	8.3	8.1	7.9	0.8%	7.9%	23.3%
Bachelor's Degrees	7	15	16	13	8	19	13	17	17	17	11.1%	-10.5%	142.9%
Masters/Spec Degrees**	19	10	12	11	4	9	6	8	8	8	10.6%	-11.1%	-57.9%
Doctoral Degrees**				3	2	2	5	5	2	13	187.3%	550.0%	
Total	26	25	28	27	14	30	24	30	27	38	20.9%	26.7%	46.2%

*SCH, FTE, and university seminar counts, and ratios based upon them, changed in FY05 to consistently follow the instructor's appointment rather than the subject code.

‡ Faculty FTE and % Tenure Track calculations changed in FY03 from budgeted FTE to Fall actuals. Graduate FTE assumes each headcount graduate assistant paid through program 01 is .5 FTE

Excludes benefits expenditures

**Graduate degrees were aggregated prior to 2004-05 and shown in the masters line.

Political Science

	2001-02	2002-03‡	2003-04	2004-05*	2005-06	2006-07	2007-08	2008-09#	2009-2010	2010-2011	Weighted Avg % Change /Yr (5 years)	5 year % change	10 year % change
Expenditures	432,614	481,357	464,698	423,648	488,129	529,114	517,171	568,713	529,499	509,330	-0.9%	-3.7%	17.7%
Faculty FTE	6.2	7.5	7.1	5.9	6.5	6.4	6.4	8.4	7.0	7.0	1.6%	9.1%	12.8%
TTT Fac FTE				4.0	6.3	5.8	5.8	6.8	6.8	6.8	0.0	0.2	
% Tenure Track	100%	80%	84%	68%	96%	90%	90%	81%	96%	96%	2.8%	7.6%	-3.6%
GTA FTE	0.2	0.5	1.0	0.5	0.5	1.0	1.0	0.5	0.5	0.5	-3.3%	-50.0%	188.1%
SCH Lower	2,214	2,628	2,544	2,271	2,226	2,394	2,487	2,754	2,223	2,319	-0.5%	-3.1%	4.7%
SCH Upper	1,714	2,123	2,132	2,112	2,220	1,904	1,783	1,733	1,748	1,708	-2.9%	-10.3%	-0.4%
SCH Grad	285	360	279	287	369	369	346	327	438	496	11.5%	34.4%	74.0%
Total FY SCH	4,213	5,111	4,955	4,670	4,815	4,667	4,616	4,814	4,409	4,523	-0.9%	-3.1%	7.4%
Univ Seminar SCH				0	0	0	0	0	0	0			
Research SCH				42	12	219	90	97	122	150	123.2%	-31.5%	
% Taught by Ten Track													
SCH Lower	40%	51%	45%	26%	37%	27%	53%	73%	100%		40.9%	170.3%	
Sections Lower	40%	50%	57%	33%	40%	33%	57%	71%	100%		33.8%	150.0%	
Total SCH/ Faculty FTE	678.7	681.5	695.4	795.8	740.8	727.4	719.5	574.5	629.9	646.1	-0.9%	-11.2%	-4.8%
w/ GTAs	660.2	638.9	609.8	733.4	687.9	629.3	622.4	542.1	587.9	603.1	-0.2%	-4.2%	-8.7%
Undergrad FY FTE	130.9	158.4	155.9	146.1	148.2	143.3	142.3	149.6	132.4	134.2	-1.9%	-6.3%	2.5%
Graduate FY FTE	11.9	15.0	11.6	12.0	15.4	15.4	14.4	13.6	18.3	20.7	11.5%	34.4%	74.0%
Total FY FTE	142.8	173.4	167.5	158.1	163.6	158.6	156.8	163.2	150.6	154.9	-0.6%	-2.4%	8.5%
Expend/Student FTE	3,029	2,777	2,774	2,680	2,984	3,335	3,299	3,485	3,516	3,288	-0.2%	-1.4%	8.5%
StudFTE/FacultyFTE	23.0	23.1	23.5	26.9	25.2	24.7	24.4	19.5	21.5	22.1	-0.6%	-10.5%	-3.8%
w/ GTAs	22.4	21.7	20.6	24.8	23.4	21.4	21.1	18.4	20.1	20.7	0.1%	-3.5%	-7.7%
Fresh/Soph Majors	61	68	60	68	67	48	62	50	59	69	8.6%	43.8%	13.1%
Jr/Sr/PostBach Majors	53	67	82	67	74	78	66	58	63	63	-1.8%	-19.2%	18.9%
Second Majors	1	1	1	3	4	6	6	6	6	2	-18.9%	-66.7%	100.0%
Graduate Majors	8	23	22	18	22	22	20	25	30	37	16.9%	68.2%	362.5%
Total Majors	123	159	165	156	167	154	154	139	158	171	3.9%	11.0%	39.0%
Majors/Faculty FTE	19.8	21.2	23.2	26.6	25.7	24.0	24.0	16.6	22.6	24.4	5.7%	1.8%	23.3%
Bachelor's Degrees	23	27	46	35	34	46	32	27	28	27	-5.0%	-41.3%	17.4%
Masters/Spec Degrees**	2	4	7	8	6	12	10	8	7	14	30.4%	16.7%	600.0%
Doctoral Degrees**				0	0	0	0	0	0	0			
Total	25	31	53	43	40	58	42	35	35	41	1.7%	-29.3%	64.0%

*SCH, FTE, and university seminar counts, and ratios based upon them, changed in FY05 to consistently follow the instructor's appointment rather than the subject code.

‡ Faculty FTE and % Tenure Track calculations changed in FY03 from budgeted FTE to Fall actuals. Graduate FTE assumes each headcount graduate assistant paid through program 01 is .5 FTE

Excludes benefits expenditures

**Graduate degrees were aggregated prior to 2004-05 and shown in the masters line.

Psychology

	2001-02	2002-03‡	2003-04	2004-05*	2005-06	2006-07	2007-08	2008-09#	2009-2010	2010-2011	Weighted Avg % Change /Yr (5 years)	5 year % change	10 year % change
Expenditures	731,400	745,741	818,307	739,925	678,962	778,345	762,825	782,096	918,275	833,877	2.8%	7.1%	14.0%
Faculty FTE	11.3	11.0	11.5	12.0	11.7	11.1	9.0	9.4	10.4	10.3	0.7%	-6.5%	-8.3%
TTT Fac FTE				6.0	4.7	5.0	7.0	7.0	8.0	7.0	0.1	0.4	
% Tenure Track	69%	55%	61%	50%	40%	45%	78%	75%	77%	68%	6.5%	49.7%	-2.5%
GTA FTE	1.0	3.5	5.0	5.0	3.5	4.5	5.0	5.0	4.5	5.0	4.4%	11.1%	393.4%
SCH Lower	7,827	8,250	7,365	3,834	3,936	4,055	3,796	3,576	3,958	4,926	9.2%	21.5%	-37.1%
SCH Upper	3,087	2,742	2,998	2,589	2,695	2,920	3,046	3,102	3,565	3,721	6.9%	27.4%	20.5%
SCH Grad	250	217	225	221	165	218	189	143	166	157	-2.0%	-28.0%	-37.2%
Total FY SCH	11,164	11,209	10,588	6,644	6,796	7,193	7,031	6,821	7,689	8,804	7.7%	22.4%	-21.1%
Univ Seminar SCH				0	0	0	0	0	0	0			
Research SCH				119	142	280	291	330	389	417	16.9%	48.9%	
% Taught by Ten Track													
SCH Lower	6%	9%	5%	7%	3%	3%	15%	14%	14%		74.4%	366.7%	
Sections Lower	8%	5%	5%	7%	4%	5%	22%	20%	25%		74.4%	525.0%	
Total SCH/ Faculty FTE	990.3	1019.0	920.7	553.7	579.9	651.0	781.2	727.6	741.1	852.0	7.6%	30.9%	-14.0%
w/ GTAs	908.6	773.0	641.7	390.8	446.5	462.6	502.2	474.5	516.9	574.2	6.4%	24.1%	-36.8%
Undergrad FY FTE	363.8	366.4	345.4	214.1	221.0	232.5	228.1	222.6	250.8	288.2	8.0%	24.0%	-20.8%
Graduate FY FTE	10.4	9.0	9.4	9.2	6.9	9.1	7.9	6.0	6.9	6.5	-2.0%	-28.0%	-37.2%
Total FY FTE	374.2	375.4	354.8	223.3	227.9	241.6	235.9	228.6	257.7	294.8	7.7%	22.0%	-21.2%
Expend/Student FTE	1,954	1,986	2,306	3,313	2,979	3,222	3,233	3,422	3,564	2,829	-4.0%	-12.2%	44.7%
StudFTE/FacultyFTE	33.2	34.1	30.9	18.6	19.4	21.9	26.2	24.4	24.8	28.5	7.5%	30.5%	-14.1%
w/ GTAs	30.5	25.9	21.5	13.1	15.0	15.5	16.9	15.9	17.3	19.2	6.3%	23.7%	-36.9%
Fresh/Soph Majors	115	122	115	100	105	124	101	96	112	151	13.8%	21.8%	31.3%
Jr/Sr/PostBach Majors	112	122	126	116	100	98	103	120	126	122	4.1%	24.5%	8.9%
Second Majors	6	10	7	7	9	4	7	11	8	13	31.3%	225.0%	116.7%
Graduate Majors	16	12	11	13	10	11	11	10	9	10	-0.1%	-9.1%	-37.5%
Total Majors	249	266	259	236	224	237	222	237	255	296	8.3%	24.9%	18.9%
Majors/Faculty FTE	22.1	24.2	22.5	19.7	19.1	21.4	24.7	25.3	24.6	28.6	8.1%	33.6%	29.7%
Bachelor's Degrees	53	49	60	62	50	39	45	40	57	61	12.0%	56.4%	15.1%
Masters/Spec Degrees**	5	7	2	9	5	6	3	4	4	4	1.3%	-33.3%	-20.0%
Doctoral Degrees**				0	0	0	0	0	0	0			
Total	58	56	62	71	55	45	48	44	61	65	10.5%	44.4%	12.1%

*SCH, FTE, and university seminar counts, and ratios based upon them, changed in FY05 to consistently follow the instructor's appointment rather than the subject code.

‡ Faculty FTE and % Tenure Track calculations changed in FY03 from budgeted FTE to Fall actuals. Graduate FTE assumes each headcount graduate assistant paid through program 01 is .5 FTE

Excludes benefits expenditures

**Graduate degrees were aggregated prior to 2004-05 and shown in the masters line.

Sociology and Anthropology

	2001-02	2002-03‡	2003-04	2004-05*	2005-06	2006-07	2007-08	2008-09#	2009-2010	2010-2011	Weighted Avg % Change /Yr (5 years)	5 year % change	10 year % change
Expenditures	638,142	703,476	685,172	720,232	699,761	739,710	784,803	811,006	766,086	776,971	0.9%	5.0%	21.8%
Faculty FTE	11.6	12.3	11.7	13.3	11.8	11.7	12.0	12.2	10.8	10.9	-2.1%	-7.0%	-5.9%
TTT Fac FTE				12.0	10.5	11.7	10.5	11.5	9.4	10.5	0.0	-0.1	
% Tenure Track	91%	87%	77%	90%	89%	100%	88%	95%	87%	97%	2.3%	-3.4%	6.0%
GTA FTE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
SCH Lower	5,364	5,460	5,919	4,341	4,305	4,596	4,365	4,581	5,157	5,004	3.1%	8.9%	-6.7%
SCH Upper	2,691	2,658	3,192	3,275	3,407	3,106	3,003	2,781	2,616	2,606	-4.2%	-16.1%	-3.2%
SCH Grad	12	15	17	7	0	3	15	8	0	12		300.0%	0.0%
Total FY SCH	8,067	8,133	9,128	7,623	7,712	7,705	7,383	7,370	7,773	7,622	0.2%	-1.1%	-5.5%
Univ Seminar SCH				0	144	132	96	24	0	0		-100.0%	
Research SCH				161	341	255	282	210	352	235	1.6%	-7.8%	
% Taught by Ten Track													
SCH Lower	83%	80%	62%	74%	40%	60%	67%	70%	72%		8.1%	80.0%	
Sections Lower	80%	83%	80%	70%	70%	75%	82%	70%	75%		1.3%	7.1%	
Total SCH/ Faculty FTE	695.2	659.6	782.8	571.7	651.9	656.3	613.2	605.7	722.7	698.3	3.0%	6.4%	0.4%
w/ GTAs	695.2	659.6	782.8	571.7	651.9	656.3	613.2	605.7	722.7	698.3	3.0%	6.4%	0.4%
Undergrad FY FTE	268.5	270.6	303.7	253.9	257.1	256.7	245.6	245.4	259.1	253.7	0.2%	-1.2%	-5.5%
Graduate FY FTE	0.5	0.6	0.7	0.3	0.0	0.1	0.6	0.3	0.0	0.5		300.0%	0.0%
Total FY FTE	269.0	271.2	304.4	254.2	257.1	256.9	246.2	245.7	259.1	254.2	0.2%	-1.0%	-5.5%
Expend/Student FTE	2,372	2,594	2,251	2,834	2,722	2,880	3,187	3,301	2,957	3,057	0.9%	6.1%	28.9%
StudFTE/FacultyFTE	23.2	22.0	26.1	19.1	21.7	21.9	20.4	20.2	24.1	23.3	3.0%	6.4%	0.4%
w/ GTAs	23.2	22.0	26.1	19.1	21.7	21.9	20.4	20.2	24.1	23.3	3.0%	6.4%	0.4%
Fresh/Soph Majors	111	113	124	131	115	79	83	68	62	82	3.4%	3.8%	-26.1%
Jr/Sr/PostBach Majors	128	120	148	141	132	146	113	100	96	97	-5.3%	-33.6%	-24.2%
Second Majors	5	4	8	8	10	4	8	4	6	8	23.8%	100.0%	60.0%
Graduate Majors	0	0	0	0	0	0	0	0	0	0			
Total Majors	239	237	280	280	257	229	204	172	164	187	-1.9%	-18.3%	-21.8%
Majors/Faculty FTE	20.6	19.2	24.0	21.0	21.7	19.5	16.9	14.1	15.2	17.1	0.5%	-12.2%	-16.8%
Bachelor's Degrees	52	49	50	65	40	64	51	48	42	29	-13.5%	-54.7%	-44.2%
Masters/Spec Degrees**	0	0	0	0	0	0	0	0	0	0			
Doctoral Degrees**				0	0	0	0	0	0	0			
Total	52	49	50	65	40	64	51	48	42	29	-13.5%	-54.7%	-44.2%

*SCH, FTE, and university seminar counts, and ratios based upon them, changed in FY05 to consistently follow the instructor's appointment rather than the subject code.

‡ Faculty FTE and % Tenure Track calculations changed in FY03 from budgeted FTE to Fall actuals. Graduate FTE assumes each headcount graduate assistant paid through program 01 is .5 FTE

Excludes benefits expenditures

**Graduate degrees were aggregated prior to 2004-05 and shown in the masters line.

Letters and Science Miscellaneous

	2001-02	2002-03‡	2003-04	2004-05*	2005-06	2006-07	2007-08	2008-09#	2009-2010	2010-2011	Weighted Avg % Change /Yr (5 years)	5 year % change	10 year % change
Expenditures	216,056	215,293	354,553	308,023	198,933	243,563	341,577	224,400	260,269	356,355	16.6%	46.3%	64.9%
Faculty FTE	0.0	2.2	3.5	3.8	3.3	4.7	1.2	6.9	8.6	7.0	88.1%	49.7%	
TTT Fac FTE				0.2	0.0	0.0	0.0	0.0	0.0	0.0			
% Tenure Track	0%	7%	5%	4%	0%	0%	0%	0%	0%	0%			
GTA FTE	0.0	12.5	10.0	7.0	6.5	5.0	4.5	5.0	0.0	1.0		-80.0%	
SCH Lower	0	0	708	1,779	1,789	1,797	1,614	1,491	1,608	1,767	2.5%	-1.7%	
SCH Upper	0	0	6	45	147	108	140	99	80	96	-2.1%	-11.1%	
SCH Grad	0	0	0	0	0	0	0	5	4	0			
Total FY SCH	0	0	714	1,824	1,936	1,905	1,754	1,595	1,692	1,863	2.0%	-2.2%	
Univ Seminar SCH				1,779	1,743	1,797	1,614	1,491	1,608	1,767	2.7%	-1.7%	
Research SCH				0	66	78	51	69	0	0		-100.0%	
% Taught by Ten Track													
SCH Lower													
Sections Lower													
Total SCH/ Faculty FTE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
w/ GTAs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
Undergrad FY FTE	0.0	0.0	23.8	60.8	64.5	63.5	58.5	53.0	56.3	62.1	2.1%	-2.2%	
Graduate FY FTE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.0			
Total FY FTE	0.0	0.0	23.8	60.8	64.5	63.5	58.5	53.2	56.4	62.1	2.0%	-2.2%	
Expend/Student FTE	0	0	0	0	0	0	0	0	1	2			
StudFTE/FacultyFTE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
w/ GTAs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
Fresh/Soph Majors	0	0	0	0	0	0	0	0	0	125			
Jr/Sr/PostBach Majors	3	2	2	0	0	1	0	0	0	9		800.0%	200.0%
Second Majors													
Graduate Majors	0	0	0	0	0	0	0	0	0	0			
Total Majors	3	2	2	0	0	1	0	0	0	134		13300.0%	4366.7%
Majors/Faculty FTE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
Bachelor's Degrees	3	0	2	0	0	1	0	0	0	0		-100.0%	-100.0%
Masters/Spec Degrees**	0	0	0	0	0	0	0	0	0	0			
Doctoral Degrees**				0	0	0	0	0	0	0			
Total	3	0	2	0	0	1	0	0	0	0		-100.0%	-100.0%

*SCH, FTE, and university seminar counts, and ratios based upon them, changed in FY05 to consistently follow the instructor's appointment rather than the subject code.

‡ Faculty FTE and % Tenure Track calculations changed in FY03 from budgeted FTE to Fall actuals. Graduate FTE assumes each headcount graduate assistant paid through program 01 is .5 FTE

Excludes benefits expenditures

**Graduate degrees were aggregated prior to 2004-05 and shown in the masters line.

Pre-Med majors appear in CLS starting in 2010-11.

College of Nursing

	2001-02	2002-03‡	2003-04	2004-05*	2005-06	2006-07	2007-08	2008-09#	2009-10	2010-11	Weighted Avg % Change /Yr (5 years)	5 year % change	10 year % change
Expenditures	2,989,297	3,462,226	3,454,301	3,637,138	4,198,569	4,421,036	4,398,893	4,373,590	4,693,945	4,590,634	1.4%	3.8%	53.6%
Faculty FTE	54.5	49.0	53.2	55.8	66.7	67.1	62.7	62.5	56.8	59.3	-1.9%	-11.6%	8.9%
TTT Fac FTE				16.0	22.1	15.2	13.3	15.8	14.6	14.4	0.0	0.0	
% Tenure Track	30%	28%	28%	29%	33%	23%	21%	25%	26%	24%	-0.4%	7.9%	-18.5%
GTA FTE	0.6	1.5	3.0	3.5	2.0	2.5	3.0	3.5	4.0	4.0	11.5%	60.0%	596.2%
SCH Lower	2,168	2,264	2,960	3,409	3,298	3,367	3,102	3,172	3,039	3,120	-0.7%	-7.3%	43.9%
SCH Upper	6,998	7,442	8,156	9,653	10,282	9,657	9,876	10,039	9,623	9,530	-1.2%	-1.3%	36.2%
SCH Grad	495	578	505	617	708	778	1,102	1,159	1,282	1,603	18.4%	106.0%	223.8%
Total FY SCH	9,661	10,284	11,621	13,679	14,288	13,802	14,080	14,370	13,944	14,253	0.4%	3.3%	47.5%
Univ Seminar SCH				0	0	0	0	0	0	0			
Research SCH				3	0	291	534	531	513	515		77.0%	
% Taught by Ten Track													
SCH Lower	56%	45%	43%	27%	26%	0%	0%	28%	20%			-23.1%	
Sections Lower	58%	28%	25%	32%	26%	0%	0%	23%	18%			-30.8%	
Total SCH/ Faculty FTE	177.4	209.9	218.4	245.0	214.2	205.8	224.6	230.0	245.3	240.4	2.5%	16.8%	35.5%
w/ GTAs	175.5	203.7	206.8	230.5	208.0	198.4	214.3	217.8	229.2	225.2	1.9%	13.5%	28.3%
Undergrad FY FTE	305.5	323.5	370.5	435.4	452.7	434.1	432.6	440.4	422.1	421.7	-1.1%	-2.9%	38.0%
Graduate FY FTE	20.6	24.1	21.0	25.7	29.5	32.4	45.9	48.3	53.4	66.8	18.4%	106.0%	223.8%
Total FY FTE	326.2	347.6	391.6	461.1	482.2	466.6	478.5	488.7	475.5	488.5	0.7%	4.7%	49.8%
Expend/Student FTE	9,165	9,960	8,822	7,888	8,708	9,476	9,193	8,950	9,872	9,398	0.8%	-0.8%	2.5%
StudFTE/FacultyFTE	6.0	7.1	7.4	8.3	7.2	7.0	7.6	7.8	8.4	8.2	2.9%	18.4%	37.6%
w/ GTAs	5.9	6.9	7.0	7.8	7.0	6.7	7.3	7.4	7.8	7.7	2.2%	15.1%	30.2%
Fresh/Soph Majors	213	260	288	271	253	268	224	233	256	332	11.5%	23.9%	55.9%
Jr/Sr/PostBach Majors	351	379	456	510	547	506	534	540	530	540	0.6%	6.7%	53.8%
Second Majors	1	1	0	1	1	0	0	0	2	1			0.0%
Graduate Majors	19	21	20	23	27	33	45	54	65	76	21.4%	130.3%	300.0%
Total Majors	584	661	764	805	828	807	803	827	853	949	5.0%	17.6%	62.5%
Majors/Faculty FTE	10.7	13.5	14.4	14.4	12.4	12.0	12.8	13.2	15.0	16.0	7.1%	33.0%	49.3%
Bachelor's Degrees	104	119	123	139	191	170	168	179	171	162	-2.5%	-4.7%	55.8%
Masters/Spec Degrees**	8	8	6	11	12	7	11	13	15	20	23.7%	185.7%	150.0%
Doctoral Degrees**				0	0	0	0	0	0	0			
Total	112	127	129	150	203	177	179	192	186	182	-0.8%	2.8%	62.5%

*SCH, FTE, and university seminar counts, and ratios based upon them, changed in FY05 to consistently follow the instructor's appointment rather than the subject code.

‡ Faculty FTE and % Tenure Track calculations changed in FY03 from budgeted FTE to Fall actuals. Graduate FTE assumes each headcount graduate assistant paid through program 01 is .5 FTE

Excludes benefits expenditures

**Graduate degrees were aggregated prior to 2004-05 and shown in the masters line.