

## Departmental Base Budget Overview

Department **Letters & Science Dean's Reserve**

Executive **Provost**

Index **415011**

Program **01**

**Base Budgets:**

										10-Year % Change
2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	
26,449	305,161	138,306	172,099	259,308	140,969	802,805	414,096	800,364	416,095	1473.20%

The L&S Dean's Reserve houses funds for:

1. In FY2005-FY2006, the UPBAC-funded Base increases (GTA stipend increases, GTA Base FTE increases and Base Operation increases) were briefly held in the Dean's Reserve and distributed to the departments in Fall 2005. Other funds in this Index typically come from vacant faculty lines within the college that are briefly held in the Dean's Reserve and re-distributed as faculty lines are filled.
2. On-going non-department specific commitments—these funds are committed for such things as the Women's Studies Program, partial GTA medical insurance costs (funded by UPBAC in FY03), and staffing of the University Core 2.0.

## Departmental Base Budget Overview

Department	<b>Microbiology</b>	Executive	<b>Provost</b>							
Index	<b>415100</b>	Program	<b>01</b>							
<b>Base Budgets:</b>			<b>10-Year % Change</b>							
<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>	
711,696	708,208	699,244	775,483	820,882	801,964	755,129	773,238	830,334	746,968	4.96%

Our department's primary mission is to train undergraduate, graduate and postdoctoral students for careers in microbiology. This training must be of the highest caliber and will be reflected in our graduates' future careers, future enrollment, alumni commitment and reputation. Our secondary (and related) mission is to conduct cutting-edge research in microbiology-related fields. In FY2008, the Department generated ~\$1.4 million in research and sponsored funds, an approximately 30% increase over the previous year. This value does not include recent large grants by Fields of the Microbiology Department that are through the Center for Biofilm Engineering. In addition, our former Department Head was the principal investigator on the five year, \$16.6 million Montana INBRE program, involving Microbiology Faculty as mentors and providing continuing support for the department's genomics center, bioinformatics research and training laboratory and environmental health laboratory. Our genomics center, established initially through NSF and the Murdock foundation, has been extremely successful, and is in constant use by approximately 30 different faculty groups, both on and off campus. Our bioinformatics teaching and research core has also been successful, resulting in new hires for a system administrator and a new search for a research specialist in bioinformatics. The bioinformatics facility serves large grants including EPSCOR, FIBR, TBI, INBRE, and COBRE.

In January 2008, we had 48 students in the Microbiology Option, 46 in the Medical Technology Options and 8 in the Environmental Health Option. We were responsible for 10 students in the Microbial Systems Option of the Biotechnology Program, and 12 students in the microbiology minor. Twelve students were in the first cohort of the new Montana Medical Laboratory Science Training program. We anticipate similar or higher numbers of undergraduates this coming year, after transfers our fully accounted for, as recruitment remains a major focus for the department. There were 15 graduate students in the Ph.D. program and 8 in the MS Program. Four students earned Ph.D. degrees and four students earned M.S. degrees in 2007/2008.

Our base budget currently supports salaries for eight tenure track faculty, our director of laboratory sciences and a three quarter time academic coordinator. We have outstanding junior faculty in infectious disease, immunology and bioinformatics (Burrill, Halonen, Dlakic) with critical disciplines for training today's microbiologists. They join senior faculty members Jesaitis, Franklin and McClure to form an excellent team for teaching and research in the biomedical sciences. Other critical programs include environmental microbiology, environmental health and epidemiology, and medical laboratory sciences (MLS). Two tenure track faculty members (Geesey and Fields) cover environmental microbiology and environmental health. We have also received state funding to expand our clinical laboratory sciences program to provide complete clinical training in-state to help fill the acute shortage of Medical Laboratory Scientists in Montana.

Microbiology is a unique discipline that affects every aspect of our lives, from infectious disease to production of the foods we eat. The discipline has received considerable national attention since the bioterrorist events of 2001. However, there has also been an increasing awareness of the field of emerging and resurgent disease, and the need for trained microbiologists to address the field (SARS, Avian Flu and West Nile are excellent examples). The department's future plans therefore include developing a faculty line in virology and epidemiology. The department represents a unique training environment for future microbiologists, with the opportunity for students to immerse themselves in the discipline, including work experience in leading research labs.

## Departmental Base Budget Overview

Department **Chemistry & Biochemistry**

Executive **Provost**

Index **415200**

Program **01**

**Base Budgets:**

2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	10-Year % Change
1,765,066	1,788,902	1,706,795	1,813,802	1,840,017	1,868,395	1,835,247	1,949,826	2,014,948	2,112,327	19.67%

The Chemistry and Biochemistry Department provides instruction, research, and outreach in several contexts. A large introductory chemistry program serves students in many disciplines throughout the university at several levels tailored to the needs of the various disciplines. Intermediate level courses provide more advanced instruction for students requiring a deeper understanding of chemistry. Advanced undergraduate courses teach state-of-the-art knowledge to students whose career goals include the chemistry industry, professional or graduate education, and teaching. Courses at the M.S. and Ph.D. level prepare students to be leaders in education and research in academia and industry. By participating in the productive, nationally competitive research programs of the department's faculty, students acquire knowledge of the most modern ideas and techniques in chemistry and biochemistry. The department's active research programs make contributions toward solving technological problems that face the state and nation, and lead to economic development. They also provide specialized expertise that supports programs of other departments. Outreach activities are aimed at furthering community awareness of the research and educational missions of the department. The faculty of the department is engaged in a variety of teaching, research, and service activities aimed at achieving these departmental goals.

## Departmental Base Budget Overview

Department	<b>Ecology</b>					Executive	<b>Provost</b>				
Index	<b>415300</b>					Program	<b>01</b>				
<b>Base Budgets:</b>										<b>10-Year % Change</b>	
<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>		
1,294,693	775,943	876,388	915,348	869,815	981,752	1,027,172	1,105,381	1,084,992	1,143,443	-11.68%	

**Note:** The 2001 Budget reflects the Dept. of Biological Sciences split to two separate departments: Dept. of Ecology and Dept. of Cell Biology & Neuroscience.

The Ecology Department provides undergraduate and graduate education and research that advance our understanding of the interactions between living organisms and their environments. This ecological knowledge is critical to the conservation and management of the State's resources, including fish, wildlife, plants and the ecosystems and landscapes that sustain them. Montana's natural resources are highly diverse and of substantial economic interest to the State; thus, our department's contributions have major impacts on many complex issues. Our educational and scientific contributions reach beyond the borders of Montana, however, and include innovative basic and applied ecological research in regional, national, and international issues. Recent research has shown that our faculty leads the world in ecological research in the Greater Yellowstone ecosystem.

The Ecology Department has one of the highest enrollments of undergraduates and the highest graduate student enrollment/FTE of any department in the College of Letters and Science (CLS), with approximately 255 undergraduate majors in four options, and 62 graduate students (currently 35 M.S., 27 Ph.D.) --- the largest research-based graduate program in CLS or Agriculture. The 10 tenure-track faculty members (three additional lines currently open), two Federal cooperators, and adjuncts in our department teach more than 2259 enrolled students during spring, summer and fall semesters, for a total of over 6872 SCH. Ecology teaches the largest enrollment biology course on campus (BIOL 101IN), and teaches three CORE 2.0 classes in total. The Ecology Department has the lowest relative expenditure per SCH or FTE of any department on campus. Our faculty advises an average of five graduate students per tenure track faculty member, comprising approximately 15% of all graduate students in the College of Letters and Science. Our teaching and research programs address issues that are central to the purpose of a land-grant institution, particularly to Montana. A large portion of the over \$2.8 million expended by our department on research each year is obtained outside of Montana and spent in Montana, often in remote locations. Thus, our highly active program provides direct economic benefits to many rural Montana communities. The quality of the faculty and the location of the Ecology Department make us highly competitive with peer institutions to meet the challenges of scientific inquiry and natural resource management in the 21st century. Consequently, the department has developed a strong national reputation for linking fundamental ecology with wildlife conservation and management, aquatic endangered and invasive species, and land use impacts on native ecosystems. This status is reflected by the fact that NSF funding is the second largest source of research funding in the department, and by our successful efforts to achieve a NEON site in the Greater Yellowstone.

Variation in the base budget since the split of the Biology Department is due to multiple retirements and the hiring of a new Department Head in 2004. A high departmental priority is to fill our three existing open positions and to add a new tenure track line to (1) teach required upper division courses currently taught by adjunct instructors, (2) expand and leverage the department research program, and (3) increase graduate enrollment. We anticipate filling at least two of the three open positions in 2009.

## Departmental Base Budget Overview

Department	<b>Cell Biology &amp; Neuroscience</b>	Executive	<b>Provost</b>							
Index	<b>415350</b>	Program	<b>01</b>							
<b>Base Budgets:</b>										
<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>10-Year % Change</b>
0	362,695	474,952	532,837	685,098	699,688	755,173	851,890	809,611	833,793	0.00%

**Note:** The 2001 Budget reflects the Dept. of Biological Sciences split to two separate departments: Dept. of Ecology and Dept. of Cell Biology & Neuroscience.

**Department Mission:** The Department of Cell Biology and Neuroscience (CBN) performs three inter-related and complementary roles: undergraduate and graduate instruction, research and/or scholarship, and public service and/or outreach. The department offers two undergraduate curricular options: Biomedical Sciences, and Cell Biology and Neuroscience. The Cell Biology and Neuroscience option provides a general education in the biological sciences with an emphasis on cell biology, developmental biology, anatomy/physiology and neuroscience. The Biomedical Sciences option provides students with the necessary training to satisfy the entrance requirements of most medical, dental, and other health-professional schools and for graduate study in biomedically-oriented disciplines. The department also provides service courses through the New Core Curriculum, and to the College of Nursing, the College of Education, Health and Human Development and to several other departments and curricula. Many faculty in CBN also have substantial teaching commitments in the WWAMI program. The department offers both M.S. and Ph.D. degrees in Biological Sciences with an emphasis on neuroscience and developmental biology. Faculty in the department are recognized nationally for excellence in research and perform service responsibilities for their profession, for the state and for the university and by involvement in outreach/continuing education offerings. In FY 07, research expenditures for CBN totaled: \$2M.

**There are 11 tenure track faculty and 1 permanent adjunct in the department: 9.55 FTE are in L&S and 2.05 FTE are in WWAMI. The department includes approximately 350 undergraduate majors with a high retention rate and many are from out of state and 4 graduate students.**

**New contributions to undergraduate teaching:** In 2002 MSU received a prestigious award from the Howard Hughes Medical Institute to revise and revitalize the undergraduate biology curriculum and access to research opportunities. In 2006, we received another 4 year award to continue the process of revision, work towards a vertically integrated curriculum that will span the full four years of undergraduate education, and create a new teaching laboratory for upper level undergraduates who will be taking hands-on research courses in their junior and senior years. This award also provides funding for continuing the successful undergraduate research program, the Complex Biological Systems Summer Undergraduate Research Program which has funded 10-20 undergraduate students per year since 2003, and an innovative exchange of undergraduate researchers and assessment information across the four-institution Northwest Network (with UW, OSU, & UM). The department continues to develop new courses in response to student feedback, specifically this year we are launching a new course in anatomy and physiology for first year students, an advanced physiology course for juniors and seniors and, in collaboration with the Modern Languages Department, a Medical Spanish class. We have established a department seminar series highlighting our research and bringing in outside collaborators. We are now in the second round of funding from the National Science Foundation Research Experience for Undergraduates program that has served 38 students since the summer of 2005, and has funds to host programs through at least the summer of 2010.

## Departmental Base Budget Overview

Department	<b>Physics</b>					Executive	<b>Provost</b>				
Index	<b>415400</b>					Program	<b>01</b>				
<b>Base Budgets:</b>										<b>10-Year % Change</b>	
<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>		
1,507,043	1,429,520	1,465,281	1,577,437	1,527,372	1,588,208	1,533,517	1,614,997	1,675,167	1,703,904	13.06%	

The Department of Physics is committed to providing the highest quality physics education to students in the Montana State University campus environment. Meeting this goal requires successful, nationally competitive, research programs that contribute to the body of physics knowledge, improve our understanding of science education, and forge links between fundamental knowledge and applied technology.

As a provider of instruction and student research opportunities in the most fundamental of the natural sciences, the Department serves

- Students desiring Core or elective natural science credit
- Students in professional fields who need a basic knowledge of the physical world
- Undergraduate physics majors preparing for graduate work or employment
- Masters and doctoral students pursuing advanced education and research

Research programs focus on optical science and technology; condensed matter physics and nanotechnology; astrophysics, relativity, and cosmology; solar physics and space science; and science education. All of these research programs enhance our instructional programs by directly involving students and faculty in problems and techniques at the frontiers of knowledge. We encourage profession-based outreach to the public schools, to local industry, and to professional organizations that support science and science education.

## Departmental Base Budget Overview

Department	<b>Earth Sciences</b>	Executive	<b>Provost</b>							
Index	<b>415500</b>	Program	<b>01</b>							
<b>Base Budgets:</b>			<b>10-Year % Change</b>							
<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>	
799,541	807,805	784,803	817,438	876,441	818,487	861,951	968,931	1,186,309	1,148,852	43.69%

The Department of Earth Sciences supports the broad land grant mission of the College of Letters and Science at Montana State University including undergraduate and graduate instruction, research, and service. The department offers undergraduate Bachelor of Science degree options in Geography, Geology, Geohydrology, Geographic Information Science/Planning, Paleontology, and Snow Science as well as doctoral and master of science graduate degrees. The role of the Department is to offer courses, conduct research, and provide service integrating geologic, geographic and geobiologic principles to better understand the Earth and its inhabitants. The department houses 14 faculty, 2 staff, 3 research associates, and 13 adjuncts, who work with 206 undergraduate majors, 37 Master of Science students and 15 Ph.D. students. The Department has a Fulbright scholar and two Presidential scholars.

Teaching is one of the Department's key missions at Montana State University. Teaching focuses on the Earth as a dynamic system with interactions between humans and the atmosphere, hydrosphere, biosphere, surface and interior of the solid Earth. Every student has a faculty advisor and every faculty member advises students. Scholarship and creative activity are considered critical to advancement of our understanding of the Earth system, and as a vital component of undergraduate and graduate education. The Department is working actively with the University to expand teaching-laboratory space in Gaines Hall by 2010.

All faculty have active research and creative programs with continuous records of accomplishment. Nationally and internationally recognized research emphases include dinosaur paleontology through in collaboration with the Museum of the Rockies, earth surface processes in conjunction with the U.S. Geological Survey Northern Rocky Mountain Science Center, geochemistry and surface science with the Imaging and Chemical Analysis Laboratory (ICAL), geographic information science analysis of Earth with the Spatial Science Center, as well as the study of snow and ice in collaboration with the SubZero facility. Several in the department participate in the new Energy Research Institute through the Big Sky Carbon Sequestration Partnership and the Zero Emissions Research and Technology program as well as with the Board of Research Commercialization. Graduate students and faculty participate in the NSF IGERT Geobiologic Systems program at MSU as well as the NSF GK12 program in the Big Sky Institute. In addition research is conducted on topics in historical geography, biogeography, paleoecology, international economics, structure-tectonics, earthquake studies, volcanology, and hydrogeology through close interactions with both federal and state agencies. Corporate sponsorship of instruction and research has increased dramatically. There is a program for Research and Teaching Excellence in Earth Sciences funded by Marathon Oil. The Department attracts fully-funded Indonesian ExxonMobil employees to our Masters program. Scholarships and fellowships for students have been developed with ConocoPhillips, and Marathon Oil.

The faculty serve as chairs and members of many international, national, state, regional and local boards related to book awards, program reviews, Major NSF initiatives (NEON, Earth Scope, DUSEL), science education, science policy, National Science Foundation research initiatives, and national park protection.

## Departmental Base Budget Overview

Department **GIAC Instructional**

Executive **Provost**

Index **415501**

Program **01**

**Base Budgets:**

2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	10-Year % Change
0	0	0	0	0	0	53,592	55,033	47,316	0	0.00%

**NOTE: As of FY2006, moved from Index 4R1270.**

The Spatial Sciences Center is a Montana University System Center. A permanent director (Rick Lawrence) has been appointed in 2008. The instructional component of the Center continues to be an important function and currently supports four classes in Earth Sciences, four classes in Land Resources and Environmental Sciences, and two courses in Ecology. SSC staff includes two tenure track faculty, one research faculty, two additional instructional faculty, one program manager, and a systems administrator. The FTE supports one SSC staff (0.25 FTE support for a systems administrator). This support is one third of last year's support for this position and eliminates support for a GIS technician previously provided to support institutional GIS needs. The systems administrator provides all systems support for the Center computer lab, which supports the courses listed above. SSC staff collaborates with research and teaching faculty, and provide technical expertise in GIS, Remote Sensing, GPS, spatial data analysis, and dedicated systems support to undergraduate and graduate students, faculty, and staff on campus. The SSC staff also maintains a large network of computers dedicated to GIS, GPS, and Remote Sensing instruction and research.

SSC staff and the Director are active in the Montana GIS Community, representing MSU and the University education system on the Montana Land Information Advisory Council, the Montana InterAgency GIS Technical Working Group, the Montana Association of Geographic Information Professionals, and the Montana GIS Users Group. The Center also leads MontanaView, a statewide consortium of universities, agencies, and non-profit entities advancing education and other activities related to spatial sciences throughout Montana, and AmericaView, a national consortium of which MontanaView is a member.



## Departmental Base Budget Overview

Department	<b>History &amp; Philosophy</b>	Executive	<b>Provost</b>							
Index	<b>415600</b>	Program	<b>01</b>							
<b>Base Budgets:</b>			<b>10-Year % Change</b>							
<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>	
945,077	941,598	977,648	1,043,048	1,074,591	1,116,997	1,165,743	1,239,121	1,350,457	1,373,306	45.31%

The Department of History and Philosophy offers B.A. degrees in History and Philosophy. The Department also offers M.A. and Ph.D. degrees in History, with emphases in the history of science and technology, environmental history, the history of the United States, and public history. The Department offers five major options, including History, Teaching, Japan Studies, Religious Studies, and SETS (Science, the Environment, Technology, and Society). The Department is also home to several non-teaching minors, including Museum Studies and Latin American and Latino Studies, and plays a major role in the Liberal Studies, American Studies, and Women's Studies programs. In the heart of Yellowstone country, the Department facilitates student exploration and discovery of our region, but the Department also provides a gateway to areas beyond Yellowstone, with courses of advanced study related to South Asia, East Asia, Latin America, Europe, the Islamic world, and the ancient world. Internships at historical societies, museums, and Yellowstone are also an important part of the educational experience. In short, our primary mission is to offer the highest quality instruction to MSU students.

The Department provides students with the tools to think rigorously, to research and thereby generate knowledge empirically, and to articulate their thoughts coherently. For these reasons, the Department's programs are among the most sought-after majors in the College of Letters and Science and even across campus. In the Spring Semester of 2008, we had 206 majors in history and 32 in philosophy, and 23 graduate students in our history graduate program, specifically 13 M.A. students and 10 Ph.D. students. With the advent of Core 2.0, the Department continues to offer a large share of Humanities Inquiry, Contemporary Issues in Science, Research, and Diversity Core courses. The centrality of the Department to the core teaching mission of the university is unparalleled.

The Department's centrality to the university's research and outreach mission is equally unparalleled. The Department organizes and funds two major public lectures that have become fixtures in the community, the Stegner Lecture and the Hausser Lecture, which bring eminent scholars to Bozeman to give popular presentations that are free and open to the public. In April 2008, this included a sold-out lecture by Dr. Jane Goodall at the Brick Breeden Fieldhouse. Members of the Department continue to collaborate with the Bozeman Public Schools on implementing its Teaching American History Grants—awarded through the U.S. Department of Education. The Department is also in its second year of a three-year National Science Foundation grant to investigate copper mining in Montana and Japan. In addition, Department faculty members continue their successes in publishing books and securing internal funding. Faculty receive Scholarship and Creativity Grants from the VPR, BEST Awards from the Provost and Vice President for Research, and Research and Creativity Awards from the College. As an example of its national reputation for scholarly excellence, the Department plans to continue to organize Michael P. Malone Memorial Conferences. The Fifth Annual Conference, titled "Japan's Natural Legacies," was held in Fall 2008 and was supported by Montana State's College of Letters and Science, Harvard University, and the University of Notre Dame. The Sixth Annual Conference will be jointly funded and organized with Stanford University.

Finally, faculty members continue to carry a heavy service load in terms of university committees, professional responsibilities, and civic engagement. To cite only a few examples: faculty from the Department have been centrally involved in the University Promotion and Tenure Task Force, Diversity Steering Committee, Faculty Affairs, Undergraduate and Graduate Studies Committees, Scholarship and Creativity Committee, and multiple other committees. They direct such programs as Liberal Studies, American Studies, and Women's Studies and, thereby, provide critical leadership in the humanities at MSU. They collaborate across disciplinary lines, with philosophy faculty working with scientists to explore ethics in the sciences at MSU. Faculty members have been active on professional boards, including the THE PACIFIC PHILOSOPHICAL QUARTERLY; and, faculty members have served on the Montana Historical Society Board of Trustees and on the Livingston Hospital Ethics Committee.

## Departmental Base Budget Overview

Department **Regent's Professor**

Executive **Provost**

Index **415610**

Program **01**

**Base Budgets:**

Base Budgets:										10-Year % Change
2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	
12,455	12,455	12,455	12,455	12,455	12,455	12,455	12,455	12,457	0	-100.00%

The Regents Professorship, held by Professor Gordon Brittan, is the highest honor the Board of Regents can bestow on faculty at this university. In this case, it recognizes Professor Brittan's international reputation for his work on Kant and Descartes. More than this, it recognizes Professor Brittan's reputation for distinguished teaching and his unequalled commitment to public service. Indeed, it is worth noting that Prof. Brittan received the first annual MSU award for Distinguished Service.

## Departmental Base Budget Overview

Department	<b>Mathematics</b>					Executive	<b>Provost</b>				
Index	<b>415700</b>					Program	<b>01</b>				
<b>Base Budgets:</b>										<b>10-Year % Change</b>	
<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>		
1,897,943	1,893,099	1,954,773	2,243,469	2,295,407	2,282,589	2,351,906	2,382,213	2,506,904	2,864,325	50.92%	

**Overview:** The Department of Mathematical Sciences is one of the leading departments in mathematics, mathematics education, and statistics in the Rocky Mountain region. The department offers B.S., M.S., and Ph.D. degrees in applied mathematics, mathematics, mathematics education, and statistics. Graduates are following careers in industry, government, and academia. In the fall of 2000 we had 67 undergraduate majors while today we have 99, of which 3 are Presidential Scholars and 10 are in the Honors Program. In the fall of 2000 we had 57 graduate majors while today we have 102 graduate majors, of which 35 are in our online MSMME program. In 2007 we awarded 22 B.S. degrees, 28 M.S. degrees, and 2 Ph.D. degrees.

**Relation to the University:** The department has a multifaceted role on and off campus and is a core contributor to research and teaching missions across campus. **Teaching:** We have the largest instructional component on campus, teaching 9% of the total student credit hours that are delivered by MSU at the second lowest cost per student FTE of all departments at MSU. These credit hours are delivered in over 300 department courses. The departmental teaching role supports the core curriculum, business, engineering, nursing, and science programs across campus, as well as our own program. The quality of our instruction at all levels is maintained by faculty that are as excellent in the classroom as in their research. Faculty in our department have received numerous teaching awards, including the Cox Faculty Award for Creative Scholarship & Teaching, the President's Excellence in Teaching Award, the Alumni Association/Chamber of Commerce Awards for Excellence in Teaching, and the CLS Outstanding Faculty and GTA Awards. **Research:** Our teaching mission is complemented by outstanding research programs. Interdisciplinary research programs involve the CBE, CCB, CLTW, Interagency Grizzly Bear Study Team, Northern Rocky Mountain Science Center; Northern Yellowstone Carnivore Working Group, SIMMS, Whitebark Pine Monitoring Working Group, and WTI. Cooperative on-campus research programs involve the departments of Agricultural Economics & Economics, Animal & Range Sciences, Cell Biology & Neuroscience, Chemical Engineering, Civil Engineering, Earth Sciences, Ecology, Education, Land Resources & Environmental Sciences, Microbiology, Nursing, Physics, and Psychology. Ongoing external research affiliations include AFOSR; Argonne National Laboratory; Center for Adaptive Optics; Los Alamos National Laboratory; Maui Space Surveillance System; Maui High Performance Computing Center; Hilo Observatory; Montana Department of Transportation; Montana Department of Fish, Wildlife & Parks; National Park Service in Yellowstone; NIH; NSF; Commissioner for Higher Education; Pacific Northwest National Laboratory; SAMSI; US Department of Education; US Department of Energy; US Fish & Wildlife Service; and US Geological Survey. Clearly our research impacts the University's research mission at its deepest levels. **Service:** Our faculty consult on research projects across campus and provide professional development training for in-service teachers.

**Significant Changes to Budget:** In FY03, a longstanding commitment from the Provost's Office of \$150,000 to fund the delivery of MATH 105 was put in our base budget. Other base budget adjustments include FY06 funding for 18 extra sections (which had been delivered for more than 10 years) totaling \$100,000 and FY09 funding for 23 extra sections (which had been delivered for more than 8 years) totaling \$140,000. In addition, our FY09 base budget also increased since three vacant faculty lines were finally filled after a 2-3 year delay. With the FY03, FY06, and FY09 extra section adjustments included, our 10-year % change would have been merely 37.08% or only 3.2% per year.

## Departmental Base Budget Overview

Department	<b>Psychology</b>					Executive	<b>Provost</b>				
Index	<b>415810</b>					Program	<b>01</b>				
<b>Base Budgets:</b>										<b>10-Year % Change</b>	
<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>		
588,294	536,354	583,672	613,580	632,185	643,306	500,333	643,668	678,331	719,385	22.28%	

Psychology is the scientific study of behavioral and cognitive processes, including interdisciplinary and societal applications. The mission of the Department of Psychology at MSU is to promote exploration, discovery, and dissemination of psychological knowledge, to provide an environment in which scientific research and teaching are integrated and valued, to provide challenging and diverse learning opportunities in support of student success, and to serve the people of Montana by sharing our expertise and collaborating with others. Students of psychology influence many aspects of life. They enhance the well-being of individuals and families, manage businesses and organizations, help build communities, and assure the effective functioning of the nation.

The Department of Psychology offers a B.S. degree that prepares students for employment in applied settings or for graduate study in psychology and related fields or professions, such as medicine, law, and business. The undergraduate curriculum emphasizes theories, terminology, methods, and research findings. In May 2008, we conferred 52 B.S. degrees. We also offer a M.S. degree that trains graduate students to enter a Ph.D. program or to conduct psychological research in private and public organizations. A strong program in psychological science is essential to our efforts because it helps us attract and retain high-quality faculty, provide advanced training opportunities for students, and enhance the research experiences of our undergraduate students. In May 2008, we awarded 4 M.S. degrees.

Psychology currently has 7 tenure-track faculty. Two of our faculty (Dr. Jessi Smith and Dr. Michelle Meade) are relatively new to the department, having joined in August, 2006. We are in the process of hiring a new Department Chair, who will join us in August, 2009.

Psychology serves about 240 undergraduate students and 11 graduate students. Each faculty member advises about 30 undergraduate students and 2 graduate students. We provide two large-enrollment core courses—Introductory Psychology (PSY 100IS) and Contemporary Issues in Human Sexuality (PSY 201D)—along with Senior Thesis Capstone (PSY 493R). We serve other colleges; for example, nine PSY courses are part of a teaching minor and a component of the elementary education program accreditation in the Department of Education. Undergraduate SCHs increased over the past year. Our program is also very cost effective: The average expenditure of instructional dollars per undergraduate SCH is about 70% of the average for comparable psychology departments.

In addition to teaching, Psychology has continued to show steady growth in extramural funding: Extramural grant expenditures increased; for example, from \$15,002 in 2000, to \$51,410 in 2005, and to \$71,902 in 2008. We expect this increase to amplify as we hire new faculty.

Psychology faculty chair the Faculty Senate and the Institutional Animal Care and Use Committee. Faculty review submissions to many professional journals and are members of various professional organizations. They are all research-active, with several peer-reviewed articles (journal articles and book chapters) already published in 2008 and others that are in press or under review as of October, 2008.

## Departmental Base Budget Overview

Department	<b>Modern Languages</b>					Executive	<b>Provost</b>				
Index	<b>415820</b>					Program	<b>01</b>				
<b>Base Budgets:</b>										<b>10-Year % Change</b>	
<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>		
438,528	448,093	465,759	495,368	457,576	475,538	540,908	505,131	523,554	632,165	44.16%	

Presently, we have 9 tenure track positions, with an expected hires in Mandarin and German in FY09, and 8 adjunct faculty teaching from 30 to 50 classes depending on tenure-track leaves, sabbaticals, and course releases. The position in Mandarin is thanks to our Title VI Grant and funding from the Provost. We also have one retired faculty member serving as coordinator of our language resource center. (Our base allocation does not include complete funding for the cost of our adjuncts and extra sections, a cost which varies between \$75,000 and \$110,000 per academic year.) The Modern Languages & Literatures Department curricula are central to the University's goals of "emphasizing the centrality of the liberal arts and sciences to undergraduate education; fostering interdisciplinary educational opportunities; developing critical and creative thinking, effective communication, and multicultural and global awareness." Our courses prepare students to enter graduate school, the foreign language teaching profession and international business and industry.

We have a Commerce option and International Business minor that combines language study with course work in the College of Business and other departments in the College of Letters and Science. We added Japanese in AY2000 (as part of the Japanese Studies minor) and first-year Arabic as a distance learning program through the Office of International Programs. We recently received approval for the Latin American and Latino Studies minor created in conjunction with the Department of History. Language departments have seen an increase in overall enrollments over the past ten years with no sign that this trend will end. Our department reflects those increases in every language area, especially Spanish.

Overall, the department has more than doubled the number of degrees granted over the past 15 years and this figure does not include students who have declared a second major in one of our languages or the numerous minors. Currently we are directing our efforts toward the development of intern/service opportunities abroad in conjunction with our various MSU-sponsored Study Abroad Programs and the International Studies major. In addition to the persistent pressure for increased offerings in Spanish, the demand for greater understanding of other cultures and languages in the wake of world events of the past few years cannot help but increase demand for all of our programs.

## Departmental Base Budget Overview

Department	<b>Political Science</b>					Executive	<b>Provost</b>				
Index	<b>415830</b>					Program	<b>01</b>				
<b>Base Budgets:</b>										<b>10-Year % Change</b>	
<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>		
358,120	361,256	369,246	388,368	395,014	364,053	426,040	459,505	440,604	502,764	40.39%	

The mission of the Department of Political Science is threefold. First, the Department provides quality undergraduate education in Political Science and graduate education in Public Administration. Second, Department faculty engage in research and creative activity contributing to the general advancement of knowledge about the human condition and human institutions, to the growth of knowledge in the field of political science and allied disciplines, and to the development of empirical and applied knowledge that serves to meet the knowledge and professional needs of the state and local governments. The needs of state and local governments are met not only through applied faculty research, but through the outreach, training, and public education efforts of the Local Government Center. Finally, faculty members serve the community by offering their time and expertise to the media and public interest groups.

The Department serves both its own majors and the broader student and university community by teaching a variety of courses that can be used to fulfill University Core requirements in Social Science. Additionally, students from other majors and colleges, such as those specializing in the social science broad field in the College of Education, are required to take a number of political science courses. The Department has expanded its internship program to include positions in local public interest advocacy organizations, aides to the Montana Legislature when in session, and working with the Senate Finance Committee and the offices of Montana's congressional delegation in Washington, D.C.

The Master's in Public Administration program currently has 20 students enrolled and actively pursuing degrees, and confers, on average, eight graduate degrees each year, with most graduates going on to public sector employment, and most often in the state of Montana. The Professional Paper requirement completed by all students during their last semester of the program often provide the link between the academic and professional practice experience, and many address topics of concern specifically to public policy issues we face in Montana.

The Department employs eight full-time tenure track faculty, one full-time Director of the Local Government Center, and several adjuncts who teach additional sections of University Core courses, or, as needed, to replace tenured or tenure-track faculty on leave. One adjunct faculty is a globally recognized expert in Central Asia and teaches courses of regional specialty. The Department's Senior Capstone course (Pols 460) provides students with applied research skills and is required for all graduating seniors, including approximately 30-35 students per year for each of the past two years. The topics of research projects frequently have direct bearing on the employment or post-graduate studies undertaken by students upon graduation from MSU.

## Departmental Base Budget Overview

Department	<b>English</b>	Executive	<b>Provost</b>							
Index	<b>415840</b>	Program	<b>01</b>							
<b>Base Budgets:</b>										
<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>10-Year % Change</b>
984,780	995,272	1,045,048	1,084,384	1,055,677	1,101,125	1,132,152	1,349,018	1,188,187	1,305,624	32.58%

**Departmental Mission:** The Department of English constitutes a core academic discipline and contributes to the mission of the college, the university, and the state of Montana through its instructional, research, and service and outreach roles, activities that are closely intertwined.

**Relation to University:** Instruction in English has been part of MSU since its founding as a land-grant college in 1893. The third article of the “Rules” for the college specifies that the “leading features of the course of instruction” shall include “the English Language,” interpreted as composition, rhetoric / language, and literature. English still constitutes a core discipline, with its courses in composition and literature recognized as important parts of the university core and its programs in both literature and teaching acknowledged as essential to any university.

**Services Provided:** The Department of English offers a focused undergraduate program for majors and minors who aspire to enter careers in higher education, secondary education, and a broad range of professions. Additionally, the Department contributes to liberal arts education through core courses and other offerings in literature, language, and writing. Through its oversight role and ongoing collaboration with the Writing Center and the writing-across-the-curriculum program, as well as its instructional program in writing, the English Department supports the University's commitment to develop and foster the writing and critical thinking skills of students. Consistent with these objectives, the Department offers undergraduate majors in both Literature and in English Teaching, and minors in three options: Literature, Writing, and Teaching. Graduates from the English Teaching Option take up positions as secondary school teachers throughout the state and the country. Graduates from the Literature Option successfully enter graduate schools to pursue advanced degrees, secure good jobs in editing, publishing, and business, or pursue other vocations for which their English degree has well prepared them. Additionally, the department has taken the lead in developing state writing standards to be used for state-wide assessment of student writing at a variety of levels. The department also offers an MA in English, a unique, broad-field degree that focuses on the interconnectedness of writing, teaching, and literary studies. This successful program has grown rapidly since its inception in 1999 to approximately twenty students a year. It offers GTA positions to approximately fourteen students each year. In terms of numbers, the department offers composition to thousands of MSU-Bozeman students each year, fills many sections of literature core courses, has approximately 250 undergraduate majors, 40 undergraduate minors, and has a growing MA program. Its faculty has earned a local, national, and international reputation for excellence in scholarship and teaching. Demand at both the undergraduate and graduate levels is strong. Continued growth is currently limited only by number of faculty.

## Departmental Base Budget Overview

Department	<b>Native American Studies</b>					Executive	<b>Provost</b>				
Index	<b>415850</b>					Program	<b>01</b>				
<b>Base Budgets:</b>										<b>10-Year % Change</b>	
<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>		
230,653	233,072	239,690	256,407	264,766	270,321	325,648	402,865	399,272	446,794	93.71%	

Native American Studies (NAS) is central to Montana State University's mission; specifically "MSU is committed to enhancing educational and professional opportunities for all protected classes and has a special dedication to the developing progressive options for Montana's Native American population."

NAS has developed a first class retention program for Native American students over its 30-year history. (It should be noted that, without NAS involvement in recruitment, New Student Services acknowledges a decline in Native American student enrollment between 1998 and 2000.) NAS has recently committed to once again help recruit Native American students for MSU. As a result of recruitment efforts, the Fall Semester 2008 Native student enrollment is approximately 370, the largest ever Native student enrollment at Montana State University. The Master's of Arts in Native American Studies is currently in its ninth year and has an enrollment of 9 students (plus 1 non-degree).

NAS has been one of the "work horse" departments of MSU for the delivery of Core courses needed by students to graduate. NAS courses serve pre-service education majors who are mandated by State law to take coursework that enhances their understanding of the unique cultures and history of Montana's Native people (*Indian Education for All*).

For the last decade, NAS has worked hard to assist other departments and colleges at MSU to secure extramural funding in support Native American students, the University, and the state. This effort has meant millions of dollars for our university and state. NAS, after 30 years of development, is one of the top 5 Centers of its kind in higher education and is now a model emulated and studied by other universities wishing to extend services to the Native Americans in their respective state.

NAS established one of the first Endowed Chairs in NAS in the United States and recruited Henrietta Mann, one of the premier scholars and leaders in Native American Studies, to fill it. Two years ago the Department named her successor, Bill Yellowtail, former Montana State Senator and a past Regional Director of the Environmental Protection Agency.

To further enhance the services benefiting Native students at Montana State University, Native American Studies sought and received authorization to build an American Indian Student Center. The site for the \$8 million Student Center is at the eastern edge of MSU's Centennial Mall, south of Hannon Hall. NAS has, at the same time, launched a \$2 million scholarship campaign.



## Departmental Base Budget Overview

Department	<b>Sociology</b>	Executive	<b>Provost</b>							
Index	<b>415900</b>	Program	<b>01</b>							
<b>Base Budgets:</b>										
<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>10-Year % Change</b>
577,424	570,489	583,620	613,173	577,069	625,092	541,766	658,541	663,995	764,721	32.44%

The department offers Bachelor of Science degrees in Anthropology and Sociology and presently has 180 majors. Our research-active faculty provide students with a high-quality undergraduate education about the society and culture of which they are a part. This includes multi-cultural understanding and appreciation for different ways of living, the intricacies and subtleties of other ways of thinking, and variations in rules of social interaction and social structure. Through rational inquiry, logical thinking, critical analysis and careful reading of primary sources, Sociology and Anthropology confront the enduring questions humankind faces as we look to the future. Our instructional efforts are closely linked with research activities: We emphasize students' independent discovery of knowledge, and every major engages in at least two independent research projects before graduating. .

Department faculty have been very productive researchers despite having no graduate program. Over the past three years, they have published 2 books, 9 book chapters, 24 peer-reviewed articles, 6 book reviews, and given 47 papers at professional conferences. Over the same time period, faculty received 21 internal grants including support from the VPR Scholarship & Creativity Fund, and served as PI or co-PI on 12 external grants, including funding from the National Science Foundation, the Japan Foundation and the Bureau of Land Management. Faculty serve on editorial boards of two journals and as editor of one professional newsletter. Faculty have submitted applications for external funding to the NSF, the Bureau of Land Management and the American Educational Research Association. Current faculty research activity is focused on understanding prehistoric hunter-gatherer peoples in Montana, the origins of domesticated agriculture in Jordan, structural causes of organizational deviance, the adaptive strategies of Marshall Islanders who have taken up residence on the Big Island of Hawaii, human resources workers and legal consciousness, police organizational predictors of drug arrest rates, sibling violence, economic and social aspects of transnational families, the backlash against democratic reforms in post-WWII Japan, human rights movements among indigenous peoples, hospital-level organizational factors as they relate to health disparities and the effects of race and class on schooling and crime. Overall, the department is developing significant strengths in the areas of global and international studies, social inequality and family. In addition, Project Archaeology – a national program of the Bureau of Land Management that is housed in our department –provides opportunities for faculty and students to be active in grant-funded curricular development related to archaeology.

Within the University, our faculty continue to participate in CORE 2.0 including membership on and/or chairing steering committees that evaluate new core course proposals; the delivery of innovative inquiry, diversity, contemporary issues in science, and research and creative experience courses; and teaching the University Seminar. In addition, faculty have taught Liberal Studies Seminars and Capstone courses. Department faculty sit on several important College and University committees such as P&T and Grievance and also contribute their service to the community. For example, our faculty have been involved with the design of data management systems for the state courts and the Local Government Center and have participated on the Community Corrections Board of Gallatin County and the City of Bozeman Historical Preservation Board.

## Departmental Base Budget Overview

Department **Liberal Studies**

Executive **Provost**

Index **419180**

Program **01**

**Base Budgets:**

2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	10-Year % Change
0	0	0	0	0	0	0	0	12,483	12,908	0.00%

## Departmental Base Budget Overview

Department **GIAC Instructional**

Executive **Provost**

Index **4R1270**

Program **01**

**Base Budgets:**

2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	10-Year % Change
42,935	43,966	50,017	52,828	52,317	52,601	0	0	0	0	-100.00%

**NOTE:** As of FY2006, moved to Index 415501.