

Annual Report on Indicators of Success for 2008-09  
Department and College Reports

**STUDENT SUCCESS INDICATORS**

NAME of Department: Geology

NAME of College: College of Science

Overview of Department

**Budget implications, general education and service courses, unique regional or statewide programs, etc**  
(Maximum characters allowed: 1500)

**Mission Statement:**

The Geological Sciences Department aspires to provide the highest quality education in Earth Science and its applications. Through hands-on learning methods, faculty-mentored research, and exposure to current technology, students shall acquire skills applicable to careers in Earth Science and related disciplines. The Department's programs emphasize understanding of Earth system processes and their interrelationships, thereby providing students a global perspective needed for problem solving, decision making, and leadership roles in a rapidly-changing world confronted with environmental challenges.

**Frontiers and Opportunities in Geological Sciences:**

Geoscientists of 2019 will confront regional, national, and global issues related to strained water resources, natural hazards mitigation, shortages of mineral and energy resources, and site evaluations of infrastructure projects or housing tracts. Their endeavors must interface with the environmental challenge of maintaining quality of life while managing development in an increasingly populated world. The Geological Sciences Department produces graduates who understand the science behind active Earth processes and bring quantitative problem-solving skills to the table in an interdisciplinary work environment. They must effectively communicate with engineers, environmental scientists and planners/developers while educating the public about linkages between the solid Earth and its hydrosphere, atmosphere, and biosphere. Particularly important emerging fields include those related to water resources exploration and management or the environmental challenges of cleaning up contaminated groundwater sites

The bilingual abilities of many Cal Poly Pomona students offer prime opportunities to export geologic expertise and knowledge of environmental issues to Latin American and Pacific Rim countries. The number of geoscience jobs in industry will grow by 22% from 2006 to 2016, much faster than the projected total of a 10% increase for all occupations, according to the U.S. Bureau of Labor Statistics. Retirement statistics indicate an increasing demand to fill jobs vacated by geologists hired in the 1970's.

**Department Faculty:**

The Geological Sciences Department consists of seven tenured or tenure-stream faculty: four Professors, one Associate Professor and one tenure-track Assistant Professor. The remaining position is a vacant Assistant Professor position. The Department Chair receives 0.5 re-assigned time such that the Department has a regular faculty compliment of 6.5 FTEF (including the vacant position). Five faculty are research-active, contributing to an impressive degree of professional

activity (publications, grant submissions, senior-thesis supervision, mentoring of students with research projects and professional presentations, proposal reviews, etc). Three faculty designed one or more new courses during 2008-09. A well-trained complement of 3 to 5 part-time instructors contribute to teaching of the general education and service courses described below.

#### Degree Programs and New Curriculum Initiatives :

The Department offers two undergraduate degree programs in Geology and Integrated Earth Studies. During Fall of 2008, we reorganized curricula for both programs into Emphasis Areas ("Tracks") to highlight identified strategic growth areas. Proposed revisions to the Geology degree program will create separate tracks in "Geology," "Environmental and Earthquake Geophysics," and "Engineering Geology." The Integrated Earth Studies degree program will include tracks in "Earth and Environment" and "Water Resources." The consultation process is finished for both curriculum proposals. The proposals currently await ratification by Academic Senate.

#### General Education and Service Courses:

Six out of thirteen GE courses that satisfy the Category B-1 (Physical Science) requirement are taught by the Geological Science Department. These courses include Astronomy, Oceanography, Physical Geology, and Earth, Time and Life. Laboratory courses that satisfy the B-3 Physical Sciences Laboratory requirement include GSC 141L and GSC 151L. Geology also teaches 5 of the approved Category B-5 Science Synthesis courses: Natural Disasters, Blue Planet, Meteorology, Exploring the Oceans, and Engineering Geology I. All of these courses are popular and fully enrolled despite significant alternatives available to students.

The Geology Department teaches two important service courses. To satisfy the demand of the Civil Engineering Department, 9 to 12 sections of Engineering are offered each year. Geology also teaches three sections of Earth Science (SCI 212/L) yearly to fulfill science education requirements of the pre-credential K-12 teachers.

#### Enrollment Data:

FTE taught by the Geology Department has grown ~40% since 2004. For several years Geology has been teaching well in excess of its tenure stream capacity. The proportion of Department FTE taught by part-time faculty has increased from 25% to 38% since 2004; the part-time WTU fraction has increased from 17% to 33%. Part-time instructors have accommodated the higher targets and higher demand for GSC courses, while the ratio of FTE to WTU has increased from 1.60 to 1.97. Meanwhile, tenure stream faculty have devoted a greater proportion of their work efforts to non-teaching activities in response to growing expectations for grant success, faculty-directed student research, and committee service. A new tenure-track faculty member is needed to reduce dependency on part-time instructors, especially in core areas of the curriculum for which qualified instructors are difficult to find.

#### Strategic Planning Initiatives:

An intensive strategic planning effort was undertaken by Geology faculty early Fall Quarter, 2008. Analysis of employment trends, alumni feedback, faculty assessment of student outcomes, and the current national emphasis on Earth's environment resulted in new initiatives to develop strategic growth areas and promote the Department's mission. Listed below are several key initiatives along with actions taken during 2008-09 to move toward long-range Department goals:

1. Reorganize the Geology and Integrated Earth Studies degree programs into distinctive Emphasis areas as follows:

--Create three Emphasis Areas or "Tracks" under the Geology degree named: "Geology," "Environmental and Earthquake Geophysics," and "Engineering Geology"

--Create two Emphasis Areas or "Tracks" under the Integrated Earth Studies degree named: "Earth

and Environment,” and “Water Resources”

(The consultation process for both curriculum proposals is complete. The proposals currently await ratification by Academic Senate for incorporation into the 2010-11 catalog)

2. Fill the seventh vacant faculty position in the strategic area of Hydrogeology and Sedimentary Processes. (a hiring proposal for tenure-track Assistant Professor was submitted to Dean in May, 2009)

3. Initiate and develop new graduate program to expand research capability, promote the teacher-scholar model and train future teachers of the geoscience workforce (the Geology graduate proposal has been approved by Academic Senate and awaits endorsement of President Ortiz).

4. Develop and enhance inter-department and inter-college collaborations:

--The Departments of Geological Sciences and Civil Engineering continue to forge cooperative and collaborative ties. Geology is responsible for teaching Engineering Geology I (GSC 321/321L), a required course for all Civil Engineering majors and all Geology and Integrated Earth Studies majors. Two Geology faculty team-taught Engineering Geology II (GSC 415/415L) during Fall quarter of 2008. This advanced course attracted a motivated group of senior and masters level CE students and senior level Geology majors. A new Geology Minor for CE majors offers a broad spectrum of quantitative courses appropriate for engineering students interested in the Geotechnical profession. Two new Emphasis Areas (tracks) in Engineering Geology and Environmental/Earthquake Geophysics foster stronger connections with the College of Engineering and open the door for future course offerings on related topics.

--Two Geological Sciences faculty (Marshall and Nourse) have designed a new course in Watershed Restoration to be team-taught during Spring, 2010 for Regenerative Studies as part of the RS410/L series. This course will be added to a spectrum of interdisciplinary courses proposed from the new Water Resources track in the Integrated Earth Studies major

---Geology teaches two GIS courses (GSC 310/L and GSC 311/L) in the Geography Department's GIS lab. These courses are a component of the interdisciplinary GIS minor. The proposed revision of the Integrated Earth Studies degree program incorporates several geography courses and underscores the interdisciplinary nature of the IES degree

5. Design and implement new 100 level General Education courses entitled “Living in Earthquake Country,” “Earth's Water,” and “Science of Global Climate Change” to increase visibility of the Department to entry-level students and educate students about local seismic hazards and current global environmental issues.

-- a new GE Category B-1 course, Earthquake Country, has passed consultation and awaits Academic Senate approval

6. Promote the Geological Sciences Department programs and related career opportunities at local feeder schools and through online material.

--a new Geology Department brochure was created October, 2008

--several variations of a promotional Powerpoint slide show were designed November, 2008

--multiple recruitment presentations were given at Mt. San Antonio College, Crafton Hills College, Citrus College, and Pasadena City College

--the Geology Department website has been updated and modernized

Department Accomplishments and Highlights of 2008-09:

1. New Equipment Acquisitions:

--Seistronix seismic refraction instrumentation, geophone receivers and software for imaging Earth's

#### outer layers

--Ten new computers and flat-panel monitors for the Geology Department student computer lab  
-- Various surveying equipment (GPS receivers, Brunton compasses, sight levels and stadia rods) for use in field mapping courses

#### 2. Funded Grant Proposals:

-- Department of Education CCRAA grant provides ~\$55,000 to purchase ground penetrating radar instrumentation and digital surveying equipment for use in Geology field courses  
-- Five other grants, totaling \$146,000, are currently active

#### 3. Masters Degree in Geology:

-- the Geology graduate proposal has been approved by Academic Senate and awaits endorsement of President Ortiz

#### 4. Department Sponsorship of Events on Campus:

--hosted Southern California "Shakeout" exercise in November, 2008. This campus activity raised the level of awareness of earthquake hazards

-- Dr. Edward Medley, the Geological Society of America 2007-08 Jahn's Distinguished Lecturer, presented two talks to the campus community on contemporary applications of Engineering Geology

5. Faculty mentored student research has resulted in 15 publications and conference presentations in which students were authors or coauthors

6. The 2009 College of Science valedictorian was a double major in Geology and Integrated Earth Studies (see below)

### Status of First Year Experience Program

#### **A narrative description that describes the status of First year Experience Program**

Maximum characters allowed: 1000)

Two Geology faculty (Klasik and Marshall) were contributing members of the curriculum design committee for the First Year Experience course in the College of Science. Geology faculty are prepared to teach sections of SCI 101/A and SCI 102/A when asked.

### Status of Assessment of Advising

#### **A narrative description that includes identifying the status of the program: development, adoption, implementation, analysis, or feedback;**

**If at feedback stage, then describe changes in proactive that have been made**

(Maximum characters allowed: 1000)

The Geological Sciences Department Five Year Assessment Plan includes a specific requirement for student advising. Advising holds are placed on all Geoscience students every quarter. Each major must discuss their academic plan and academic progress with a GSC faculty advisor prior to quarterly preregistration. This process was implemented several years ago and has facilitated student curricular planning, improved student graduation rate and streamlined time to graduation. Students have learned the importance of pre-registering for courses at the earliest possible time. A significant change implemented in Spring of 2008 was the posting of a schedule of all GSC courses to be taught during the next year. This schedule, although somewhat tentative, should facilitate student curriculum planning efforts, particularly for courses offered only once every two years.

#### General Advising Activities:

Dr. Klasik acted as advisor to Geoscience undergraduate majors and Geology's SEES students. Dr. Nourse interacted with both on-campus and off-campus students interested with changing majors, transferring into the programs or applying for admission to the program.

In other areas of assessment, Geology faculty have linked course learning outcomes to Learning Objectives outlined in the Assessment Plan. Geology faculty are collecting data for analysis as outlined in the Five Year Plan. Faculty are meeting and discussing common norms for assessing learning outcome objectives. Rubrics are in place to assess senior theses. An exit survey has been updated and utilized spring 2009. Current activities and results are described in the Undergraduate Programs and Learning Outcomes section of this Annual Report.

#### Academic Standing: At-Risk Students

##### See Performance Measure Chart

(Maximum characters allowed: 1000)

The spring quarter '09 Active Student Report identifies three geoscience students out of a total of 36 who have GPA's below 2.0. None of the three are disqualified. One is on academic probation--she will graduate this summer after putting the finishing touches on her senior thesis. The remaining two are subject to disqualification. One of these has discussed academic and personal issues with her academic advisor. A decision was made to change major from Geology to IES--without the calculus requirements this should facilitate graduation

All geoscience students have advising holds placed every quarter. Each geoscience majors must discuss his/her academic plan and academic progress with a faculty advisor prior to quarterly registering. At risk students are advised regarding course strategies designed to progress through the major as well as improve their GPA. Students are referred to the College of Science Advising Center for additional GPA-related strategies. Students and faculty are becoming familiar with the GPA calculator and the use of repeating / replacing courses. New University policies regarding course repeats and course withdrawals have been communicated to all faculty advisors.

#### Other Student Achievement

**This is a narrative describing students in special programs (McNair, Honors, etc.) and student participation in special conferences of other external recognition**

(Maximum characters allowed: 1500)

##### 1. Julian McVie Award:

Lauren Ray Carey, a double major in Geology and Integrated Earth Studies, was this year's recipient of the McVie Award. Graduating as the College of Science's top scholar with a GPA of 3.95, Lauren spoke at the commencement ceremony on June 12, 2009

##### 2. College of Science Dean's List

--Fall Quarter, 2008:

Lauren Carey

Liliana Nunez

--Winter Quarter, 2009:

Lauren Carey

Kelly Kinder

Brian Oliver  
Jeffrey Pepin  
Melissa McDonald  
Liliana Nunez  
Matthew Willis  
--Spring Quarter, 2009  
Lauren Carey  
Lilibeth Wenceslao  
Kelly Kinder  
Samantha Engle  
Audra Hanks

--Students Making Dean's List all Three Quarters (Fall, Winter and Spring):

Lauren Carey

### 3. Student-authored presentations at professional conferences:

--Bruns, Jessica J., Anderson, Cami Jo, and. Jessey, David R., 2009, Basaltic volcanism in the southern Owens Valley, California, in Landscape Evolution at an Active Plate Margin, Reynolds, R.E., and Jessey, D.R., eds., California Desert Studies Center Symposium Volume and Field Guide, Zzyzx, CA, pp. 98-106.

--Carey, Lauren, and Nourse, Jonathan A, 2008, Baseflow Recession of Springs in Icehouse Canyon, San Gabriel Mountains, CA, poster presentation for Southern California Conference on Undergraduate Research, California State Polytechnic University, Pomona, November 22.

--Wicks, L., Oliver, B., Heaton, D., Avant, T., Khalighi, A., and Nourse, Jonathan A, 2008, Delineation of the SCE hydroelectric Diversion System and Eroded Segments of the Old Mount Baldy Road in San Antonio Canyon Using GPS / GIS Technology, poster presentation for Southern California Conference on Undergraduate Research, California State Polytechnic University, Pomona, November 22.

--Marshall, J.S., \*LaFromboise, E.J., \*Utick, J.D., \*Khaw, F., \*Morrish, S.C., \*Piestrzeniewicz, P., Protti, M., Gardner, T.W., Sak, P.B., Fisher, D.M., and Spotila, J.A., 2008, Coastal tectonics of the Nicoya Peninsula seismic gap, Costa Rica: Geological Society of America, Abstracts with Programs, v. 40, Abstract 163-5.

--Marshall, J.S., \*LaFromboise, E.J., \*Utick, J.D., \*Khaw, F., \*Morrish, S.C., \*Piestrzeniewicz, P., \*Gilbert, R.C., Gardner, T.W., and Protti, J.M., 2008, Tectonic geomorphology and forearc deformation along the Nicoya Peninsula seismic gap, Costa Rica: Memoria: Programa y Resúmenes, IX Congreso Geológico de América Central, 02-04 Julio, 2008, San José, Costa Rica, p. 122.

\* indicates student coauthors

### 4. Student Scholarship Recipients, May, 2008:

--Matthew Willis: \$3000 Grace Teal Memorial Scholarship

--Kelly Kinder: \$750 Henderson-Valles academic scholarship

--Lauren Carey: \$1000 Ernest Prete scholarship

--Jessica Bruns: \$750 Margaret Van Buskirk Memorial Scholarship

--Jeff Pepin: \$450 AEG Brunton Compass Award

--Brent Retzinger: \$450 AEG Brunton Compass Award

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**Institutional Reputation**

NAME of Department: Geology

NAME of College: College of Science

**Gifts – 3 year comparison**

This includes all cash gifts such as annual fund, scholarships, donations

See Performance Measure Chart

(Maximum characters allowed: 200)

Cash-\$7,310  
Annual Fund- \$1875.00  
Total- \$9185.00

**In-Kind Gift- 3 year comparison**

See Performance Measure Chart

(Maximum characters allowed: 200)

GIK- \$796.95  
Grant Total- \$9981.95

**Students involved in the Community**

This category encompasses service learning, internships, volunteer work, etc.; in the narrative briefly describe the opportunities provided through course work, clubs, events, etc.

(Maximum characters allowed: 500)

**Service Learning:**

--Dr. Jeffrey Marshall directed three Service Learning Practical Teaching Experiences for pre-service teachers enrolled in Earth Sciences Education (SCI 212). During each teaching experience, Cal Poly Pomona students engaged elementary school kids in hands-on learning activities in the classroom of teacher A.M. Katze, Redwood Elementary School, Fontana. Students emphasized practical activities that vividly portrayed a wide variety of dynamic processes encountered in Earth sciences. Specific dates were December 1, 2008; March 4, 2009; and May 18, 2009. This was the 8th year for Dr. Marshall's unique program.

**Internships and Research Apprenticeships:**

--Orange County Water District continues to employ Geology majors as interns. Typical work duties include entry of hydrochemical and water level measurements into hydrologic data bases and assistance of hydrogeologist in the field. The most recent student interns were Allison Ruotolo and Reynicole Gilbert

--Andrew Kieta is employed as an intern at Jet Propulsion Lab in Pasadena, working on a project that

compares spectroscopic data acquired from real desert landscapes to remote sensing data from Mars  
--Christina Heinlein is employed as a SURF research assistant at JPL, working on image processing of Mars Orbiter data

--Logan Wicks works as a intern with RMT Inc., (an Environmental consulting firm). His job duties include soil sampling and monitoring of water wells in southern California and the San Francisco Bay area.

--Lauren Carey will finish 1 1/2 years work as an intern with the Hydrology Division at Inland Empire Utilities Agency in Rancho Cucamonga this August, 2009. The internship provided practical experience and perspective useful for Lauren's pursuit of a Masters degree in Hydrology at the University of Idaho

--Matthew Willis is employed as an Ames Research Associate during summer of 2009. He has been conducting field work in Washington State, measuring carbon flux in the Okanogan National Forest. Matt will continue on as a graduate student in Cal Poly Pomona's Regenerative Studies program during Fall, 2009

#### Geology Club:

Geology Club continues its many activities, many of which involve the campus community and local Geological and Engineering associations. Noteworthy events hosted by Geology Club include:

--Fall, 2008 field trip to Trona to collect specimens of halite and other evaporite minerals

--Winter, 2009 field trip to Robinson Mine and Round Mountain Mine to tour world class copper and gold mining enterprises

--November 4, 2008 presentation of an Earthquake Hazards Information Booth during the "Southern California ShakeOut" exercise. This booth educated campus community about how to prepare for and respond to future earthquakes.

--Association of Environmental and Engineering Geologists (AEG), Inland Empire Chapter Meeting and Lecture, sponsored by the Cal Poly Pomona Geology Club, Kellogg West Conference Center, April 15, 2009

--Campus lecture by 2008-09 GSA-AEG Jahn's Distinguished Lecturer, Dr. Edmund Medley, Geology Speaker Series, Cal Poly Pomona, April 16, 2009.

#### Campus Community Partnerships

This narrative should identify groups, individuals, and organizations with whom the department had an active relationship; include a description of the impact.

(Maximum characters allowed: 1000)

--The Geology Department hosted a lecture by Ken Hudnut of southern California Earthquake Center (SCEC) on November 4, 2008 to publicize the "Southern California ShakeOut" exercise. This lecture, presented at Bronco Student Center, increased campus awareness of local earthquake hazards and established a new relationship between SCEC and the Geology Department. On the same day, Geology Club presented an Earthquake Hazards Information Booth to educate campus about how to prepare for and respond to future earthquakes.

--Dr. Marshall served as Science Content Expert for Cortez Elementary School Teacher Training Workshops, College of Science Center for Education and Equity in Mathematics, Science, and Technology (CEEMaST), June 29-July 2, 2009. Local elementary school teachers gained new insights into methodologies for teaching Earth Science content.

--Dr. Nourse led a field trip for the National Association of Geology Teachers on April 18, 2009, to illustrate examples of natural hazards in the San Gabriel Mountains. In attendance were 15



educators from community colleges and high schools in California. The trip was an opportunity to share teaching experiences and methodologies with other instructors.

--Drs. Marshall and Nourse were interviewed by a reporter of Poly Post Newspaper, May 19, 2009, on earthquake hazards at Cal Poly Pomona (article published 5/26/09, "Earthquake shakes up concern among students", The Poly Post, Cal Poly Pomona University, v. 64, no. 29, p. 5). This article provided the campus community with factual information about the San Jose fault zone and the University's efforts to reduce hazards associated with buildings located near the fault.

--Dr. Marshall was interviewed by a reporter of Tico Times Newspaper, San José, Costa Rica, on earthquake hazards of the Nicoya Peninsula, January 15, 2009, to educate the Costa Rican public about the history and causes of seismic activity in the region

--Drs. Nourse and Marshall were invited participants at Pomona College Geology Department's Annual Woodford-Eckis Banquet and Lecture, February 18, 2009. This event provided new networking opportunities with local geology educators and industry professionals

--Dr. Marshall led a tour of Tujunga Wash and Los Angeles River stream restoration sites for Dr. Jill Singer, National Science Foundation (NSF) Division of Undergraduate Education Program Director and former President Council on Undergraduate Research (CUR), Nov. 23, 2008. The tour opened the door for future NSF support for undergraduate research projects.

#### **Accreditations or Program Reviews**

Describe the results of the external review.  
(Maximum characters allowed: 500)

The 2006 Geological Sciences Department Assessment Plan was approved by Academic Senate in autumn of 2008 after being endorsed by the Dean of College of Science in December of 2006 and residing in the Office of Academic Affairs for a year or so. The Department began implementing this plan during fall quarter of 2006 and has been making good progress since. Current activities and results are described in the Undergraduate Programs and Learning Outcomes section of this Annual Report.

#### **Alumni Relations**

Include activities such as: organized efforts to reach alumni; participation in Professor for a Day; recommendation of distinguished alumni; interaction with alumni  
(Maximum characters allowed: 500)

#### **Alumni Newsletter:**

The Geology Department published its annual newsletter, entitled "The Mylonite," in November, 2008. This was distributed to 300 Geology alumni and friends.

#### **Alumni Fundraising Efforts:**

A new Field Experiences fund, initiated in Spring of 2008, has grown to greater than \$2000 from generous donations of 18 individuals. Alumni contributions to this fund are intended to offset the costs of field work or field trips associated with faculty-mentored research or laboratory courses.

#### **Alumni Reunions:**

--The department held its annual Alumni Reunion at Cahuilla Park in Claremont on May 2, 2009.

This Bar-B-Q/potluck was attended by about 60 alumni, current students and family members. One of the Department's benefactors, Peter Valles (Class of 1977) was in attendance to present the annual Henderson-Valles scholarship award. Three additional scholarship awards were given to deserving students.

--An informal alumni gathering was held at Warehouse Pizza in La Verne on September 6, 2008. Approximately 30 alumni, most from the geotechnical industry, assembled to compare notes on current job opportunities and trends in the industry. Drs. Nourse and Marshall were in attendance to provide updates on Department curriculum and students

Data Bases:

--The Geological Sciences Department Alumni data base has been revised and completely updated. 267 alumni are now accounted for.

--The Department has begun compiling an Employer data base to better guide its students in their job searches. This data base contains contact info for numerous people from industry who have hired our students in the past. Many of the contacts are Geology alumni

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**PERFORMANCE MEASURES- Student Success**

NAME of Department: Geology

NAME of College: College of Science

Performance Measures	Fall 2005	Fall 2006	Fall 2007	Fall 2008	Comments
<b>Student Success</b>					
Number of Majors	29	38	36	28	Significant gains were made in 2008-09. Department records indicate addition of 10 new majors after concerted recruitment/promotional activities. We have also recruited 5 transfer students for Winter and Spring, 2010 admission, but the current freeze on mid-term applications has stalled these efforts.
Number of 2 <sup>nd</sup> Majors	1	0	1	2	Department records indicate 4 double majors in Spring, 2009
Number of Post Bac Students	1	1	1	1	
Grad Rate 6 yr FTS-Dept	33.3%	0.0%	0.0%	0.0%	
Grad Rate 6 yr FTS- Univ	33.3%	0.0%	0.0%	33.3%	
Grad Rate 3yr Transfer- Dept	0.0%	33.3%	33.3%	0.0%	
Grad Rate 3yr Transfer-Univ	0.0%	0.0%	66.7%	0.0%	
Degrees Awarded- Bachelor's	4	7	6	4	Data Warehouse indicates 8 Bachelor's degrees awarded Between Summer, 2008 and Winter, 2009
Degrees Awarded- Master's	0	0	0	0	
Persistence Rate 1 <sup>st</sup> to 2 <sup>nd</sup> - Dept	100.0%		60.0%	100.0%	
Persistence Rate 1 <sup>st</sup> to 2 <sup>nd</sup> -Univ	100.0%		100.0%	100.0%	
# FTS Admitted	10	15	6	7	
# FTS Enrolled in FYE					
% At-Risk 2.0 and Below	3.8%	13.8%	7.1%	4.5%	
% At-Risk 2.0-2.2	11.5%	13.8%	21.4%	9.1%	

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**PERFORMANCE MEASURES- Faculty & Staff Development**

NAME of Department: Geology

NAME of College: College of Science

Performance Measures	Fall 2005	Fall 2006	Fall 2007	Fall 2008	Comments
<b>Faculty &amp; Staff Development</b>					
FTET in General Education	143	142	174		
FTET in Service Courses	0	0	0		GSC 321 should count as a service course as well as aGE category B5 Science Synthesis course. SCI 212 is a service course.
FTET in Major	5.9	8.5	8.3		
FTET in Post-Bac Level	0	0	0		
FTEF Tenured/Tenure-Track	87	83.3	102	6	One faculty member was on sabbatical Fall, 2008
FTEF Temporary Faculty				1.07	
% FTET by T/TT Faculty	57%	54%	56%	67.2%	
% FTET by Temporary Faculty	1.9	3	3.2	32.8%	
Student to Faculty Ratio	23.58	26.36	21.59	20.96	
Major to Faculty Ratio	51.00	61.00	61.00	4.70	

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**PERFORMANCE MEASURES-** Institutional Reputation

NAME of Department: Geology

NAME of College: College of Science

Performance Measures- Fiscal Year	2005-06	2006-07	2007-08	2008-09	Comments
<b>Institutional Reputation</b>					
Cash Gifts	\$31,139.00	\$15,500.00	\$4,855.00		
In-Kind Gifts	\$4,163.33	\$16,506.45	\$30,513.00		
Annual Fund	\$3,265.00	\$2,053.00	\$525.00		
Grants Submitted Value	\$197,161.00	\$453,628.00	\$523,125.00	\$516,969.00	
# Grants Submitted	1	2	6	7	
\$ Value of Grants Submitted	\$197,161.00	\$453,628.00	\$523,125.00	\$516,969.00	
# of Active Grants	1	2	4	5	
\$ Value of Active Grants	\$29,785.88	\$50,204.18	\$18,088.91	\$66,599.12	
\$ Value of ICR	\$0.00	\$8,333.00	\$5,267.00	\$16,217.00	

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PERFORMANCE MEASURE COMMENTS

NAME of Department: Geology

NAME of College: College of Science

**Commentary or specific data from Performance Measures Chart**  
(Maximum characters allowed: 1000)

Number of GSC Majors:

The data indicate 30 GSC active majors for Fall Quarter, 2008. Significant gains were made during 2008-09. Department records indicate addition of 10 new majors after concerted recruitment/promotional activities. The official GSC major List Serve recorded 39 majors in August, 2009. At least one of our double majors is not counted in that list. We also recruited 6 or 7 transfer students for Winter and Spring, 2010 admission, but the current freeze on mid-term applications has stalled these efforts.

Grants:

Grant productivity has increased progressively since 2004-05. The Geology Department had 5 active grants in 2008-09, contributing significant indirect costs to the university. Two of these grants included buyout of tenure-track faculty teaching time at the full salary+benefits rate. Seven new grants were submitted during 2008-09. One Geology faculty member is an active participant in the ADVANCE grant program. The Geology Department is also involved in the CCRAA grant program.

**Conclusion and pathway to the future**  
(Maximum characters allowed: 1000)

The Geological Sciences Department developed a comprehensive a strategic plan during 2008-2009. Below are some excerpts.

Frontiers and Opportunities in Geological Sciences:

Geoscientists of 2019 will confront regional, national, and global issues related to strained water resources, natural hazards mitigation, shortages of mineral and energy resources, and site evaluations of infrastructure projects or housing tracts. Their endeavors must interface with the environmental challenge of maintaining quality of life while managing development in an increasingly populated world. The Geological Sciences Department produces graduates who understand the science behind active Earth processes and bring quantitative problem-solving skills to the table in an interdisciplinary work environment. They must effectively communicate with engineers, environmental scientists and planners/developers while educating the public about linkages between the solid Earth and its hydrosphere, atmosphere, and biosphere. Particularly important emerging fields include those related to water resources exploration and management or the environmental challenges of cleaning up contaminated groundwater sites

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geologic expertise and knowledge of environmental issues to Latin American and Pacific Rim countries. The number of geoscience jobs in industry will grow by 22% from 2006 to 2016, much faster than the projected total of a 10% increase for all occupations, according to the U.S. Bureau of Labor Statistics. Retirement statistics indicate an increasing demand to fill jobs vacated by geologists hired in the 1970's.

#### New Geology Department Initiatives:

Analysis of employment trends, alumni feedback, faculty assessment of student outcomes, and the current national emphasis on Earth's environment resulted in new initiatives to develop strategic growth areas and promote the Department's mission. Listed below are several key initiatives along with actions taken during 2008-09 to move toward long-range Department goals:

1. Reorganize the Geology and Integrated Earth Studies degree programs into distinctive Emphasis areas as follows:

--Create three Emphasis Areas or "Tracks" under the Geology degree named: "Geology," "Environmental and Earthquake Geophysics," and "Engineering Geology"

--Create two Emphasis Areas or "Tracks" under the Integrated Earth Studies degree named: "Earth and Environment," and "Water Resources"

(The consultation process for both curriculum proposals is complete. The proposals currently await ratification by Academic Senate for incorporation into the 2010-11 catalog)

2. Fill the seventh vacant faculty position in the strategic area of Hydrogeology and Sedimentary Processes. (a hiring proposal for tenure-track Assistant Professor was submitted to Dean in May, 2009)

3. Initiate and develop new graduate program to expand research capability, promote the teacher-scholar model and train future teachers of the geoscience workforce (the Geology graduate proposal has been approved by Academic Senate and awaits endorsement of President Ortiz).

4. Develop and enhance inter-department and inter-college collaborations:

--The Departments of Geological Sciences and Civil Engineering continue to forge cooperative and collaborative ties. Geology is responsible for teaching Engineering Geology I (GSC 321/321L), a required course for all Civil Engineering majors and all Geology and Integrated Earth Studies majors. Two Geology faculty team-taught Engineering Geology II (GSC 415/415L) during Fall quarter of 2008. This advanced course attracted a motivated group of senior and masters level CE students and senior level Geology majors. A new Geology Minor for CE majors offers a broad spectrum of quantitative courses appropriate for engineering students interested in the Geotechnical profession. Two new Emphasis Areas (tracks) in Engineering Geology and Environmental/Earthquake Geophysics foster stronger connections with the College of Engineering and open the door for future course offerings on related topics.

--Two Geological Sciences faculty (Marshall and Nourse) have designed a new course in Watershed Restoration to be team-taught during Spring, 2010 for Regenerative Studies as part of the RS410/L series. This course will be added to a spectrum of interdisciplinary courses proposed from the new Water Resources track in the Integrated Earth Studies major

---Geology teaches two GIS courses (GSC 310/L and GSC 311/L) in the Geography Department's GIS lab. These courses are a component of the interdisciplinary GIS minor. The proposed revision of the Integrated Earth Studies degree program incorporates several geography courses and underscores the interdisciplinary nature of the IES degree

5. Design and implement new 100 level General Education courses entitled "Living in Earthquake

Country," "Earth's Water," and "Science of Global Climate Change" to increase visibility of the Department to entry-level students and educate students about local seismic hazards and current global environmental issues.

-- a new GE Category B-1 course, Earthquake Country, has passed consultation and awaits Academic Senate approval

6. Promote the Geological Sciences Department programs and related career opportunities at local feeder schools and through online material.

--a new Geology Department brochure was created October, 2008

--several variations of a promotional Powerpoint slide show were designed November, 2008

--multiple recruitment presentations were given at Mt. San Antonio College, Crafton Hills College, Citrus College, and Pasadena City College

--the Geology Department website has been updated and modernized



Annual Report on Indicators of Success for 2008-09  
Department and College Reports

**FACULTY and STAFF DEVELOPMENT INDICATORS  
Publications & Creative Activities (Peer Reviewed)**

NAME of Department: Geology

NAME of College: College of Science

Faculty/Staff Development Indicators: Publications & Creative Activities (Peer Reviewed)

Use standard citation format common to the disciplines; Only report what appeared in 2008-09

Last Name	First Name	Standard Citation (Max characters allowed:500)
Berry	David	Berry, David R., 2009, Archaeocyathids from Westgard Pass, Inyo County, California, in Landscape Evolution at an Active Plate Margin, Jessey, David R. and Robert E. Reynolds, editors, California Desert Studies Center Symposium Volume and Field Guide, Zzyzx, CA.
Berry	David	Berry, David R., 2009, Triassic ammonoids from Union Wash, Inyo County, California in Landscape Evolution at an Active Plate Margin, Jessey, David R. and Robert E. Reynolds, editors, California Desert Studies Center Symposium Volume and Field Guide, Zzyzx, CA.
Berry	David	Berry, David R. and Balzer, Suzanne M. , 2009, Lower Cambrian-Precambrian stratigraphy and fossil fauna of the Westgard Pass area, Inyo County, California, in Landscape Evolution at an Active Plate Margin, Jessey, David R. and Robert E. Reynolds, editors, California Desert Studies Center Symposium Volume and Field Guide, Zzyzx, CA.
Berry	David	Berry, David R. and Balzer, Suzanne M. , 2009, Paleozoic section at Mazourka Canyon, Inyo County, California, in Landscape Evolution at an Active Plate Margin, Jessey, David R. and Robert E. Reynolds, editors, California Desert Studies Center Symposium Volume and Field Guide, Zzyzx, CA.
Jessey	David	Bruns, Jessica J., Anderson, Cami Jo, and. Jessey, David R., 2009, Basaltic volcanism in the southern Owens Valley, California, in Landscape Evolution at an Active Plate Margin, Reynolds, R.E., and Jessey, D.R., eds., California Desert Studies Center Symposium Volume and Field Guide, Zzyzx, CA, pp. 98-106.
Jessey	David	Jessey, David R. and Reynolds, Robert E., 2009, A field trip

		to the Owens Valley, in Landscape Evolution at an Active Plate Margin, Reynolds, R.E., and Jessey, D.R., eds., California Desert Studies Center Symposium Volume and Field Guide, Zzyzx, CA, pp. 7-59.
Jessey	David	Jessey, David R., 2009, The Blue Chert Mine: an epithermal gold occurrence in the Long Valley Caldera, in Landscape Evolution at an Active Plate Margin, Reynolds, R.E., and Jessey, D.R., eds., California Desert Studies Center Symposium Volume and Field Guide, Zzyzx, CA, pp. 135-139.
Jessey	David	Jessey, David R., Lusk, Mathew W. and Varnell-Lusk, Ashley, 2009, Tectonic implications of basaltic volcanism within the central Owens Valley, California, in Landscape Evolution at an Active Plate Margin, Reynolds, R.E., and Jessey, D.R., eds., California Desert Studies Center Symposium Volume and Field Guide, Zzyzx, CA, pp. 140-147.
Marshall	Jeffrey	Gardner, T., Webb, J., Pezzia, C., *Amborn, T., Tunnell, R., Flanagan, S., Merritts, D., Marshall, J., Fabel, D., Cupper, M.L., 2009, Episodic intraplate deformation of stable continental margins: evidence from Late Neogene and Quaternary marine terraces, Cape Liptrap, Southeastern Australia: Quaternary Science Reviews, v. 28, no. 1, p. 39-53.
Marshall	Jeffrey	López, A., Marshall, J.S., Chinchilla, A.L., Sak, P.B., Chiesa, S., Meschede, M., Alvarado, G.E., Calderón, M., Gazel, E., Villegas, A., and Barquero, R., 2008, The Sigma Project stress field map of Costa Rica: World Stress Map, Release 2008: Heidelberg Academy of Sciences and Humanities, and Geophysical Institute, University of Karlsruhe, Germany.
Marshall	Jeffrey	Marshall, J.S., 2008, Megathrust earthquakes, coastal uplift, and emergent marine terraces of Costa Rica's Nicoya Peninsula, in Bierman, P. and Montgomery, D., eds., Teaching Geomorphology in the 21st Century, Topical Resources, Geomorphology Vignettes, [web site]: On the Cutting Edge Program, Science Education Resource Center, Carleton College, Northfield, Minnesota, <a href="http://serc.carleton.edu/NAGTWorkshops/geomorph/vignettes/25559.html">http://serc.carleton.edu/NAGTWorkshops/geomorph/vignettes/25559.html</a>
Marshall	Jeffrey	Marshall, J.S., Gardner, T.W., Protti, M., and Nourse, J.A., 2009 (in press), International geosciences field research with undergraduate students: Three models for experiential learning projects investigating active tectonics of the Nicoya Peninsula, Costa Rica, in Whitmeyer, S.J., Mogk, D.W., and Pyle, E.J., eds., Field Geology Education: Historical Perspectives and Modern Approaches, Geological Society of

		America Special Paper 461, Boulder, Colorado.
Marshall	Jeffrey	Sak, P.B., Fisher, D.M., Gardner, T.W., Marshall, J.S., and Lafemina, P., 2009, Relationship among rough crust subduction, fore arc kinematics, and Quaternary uplift rates, Costa Rican segment of the Middle American Trench: Geological Society of America Bulletin, doi: 10.1130/B26237.1.
Nourse	Jonathan	Nourse, Jonathan A., 2009, Natural Disasters, Past and Impending, in the Eastern San Gabriel Mountains, in Caputo, M. (ed.) , National Association of Geology Teachers Far Western Meeting, Mount San Antonio College, California., pp.
Nourse	Jonathan	Nourse, Jonathan A., Field Investigation of Low-Angle Detachment Faults in Sonora, Mexico: One-quarter sabbatical leave, California State Polytechnic University, Pomona, Fall Quarter, 2008.
Polet	Jascha	Polet, J. and H. Kanamori, "Tsunami Earthquakes", invited and peer reviewed contribution to the "Encyclopedia of Complexity and Systems Science", Editor: W. Lee, accepted to be published by Springer, Summer 2009, 27 pages.

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**FACULTY and STAFF DEVELOPMENT INDICATORS  
Publications & Creative Activities (Non- Peer Reviewed)**

NAME of Department: Geology

NAME of College: College of Science

Faculty/Staff Development Indicators: Publications & Creative Activities (Non- Peer Reviewed)  
Use standard citation format common to the disciplines; Only report what appeared in 2008-09

Last Name	First Name	Standard Citation (Max characters allowed:500)
Marshall	Jeffrey	Marshall, J.S., 2008, Tectonic geomorphology and earthquake hazards of the Nicoya Peninsula seismic gap, Costa Rica, Central America: Abstract in Provost's Symposium on Faculty Scholarship, December 15, 2008.
Marshall	Jeffrey	Marshall, J.S., 2009, Integrating research into the undergraduate geosciences curriculum: The San Gabriel Mountain foothills geomorphology field research project: Abstract in Cal Poly Pomona University Provost's Symposium on Teaching, April 17.
Nourse	Jonathan	Nourse, Jonathan A., 2008, Gold-Silver-Copper-Molybdenum Exploration Meets Structural Geology and Tectonics along the Sonora Mineral Belt, Northwestern Mexico, Abstract in Provost's Symposium on Faculty Research, California State Polytechnic University, Pomona, December 15.
Polet	Jascha	Polet, J., Thio, H. K., and Earl, J., Implementation of Near Real-Time Methods in Seismology to Determine Earthquake Source Characteristics, Abstract and poster presentation at Provost Research Symposium, California State Polytechnic University, Pomona, Dec 15

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Department and College Reports

**FACULTY and STAFF DEVELOPMENT INDICATORS**  
**Professional Conference Presentations**

NAME of Department: Geology

NAME of College: College of Science

Faculty/Staff Development Indicators: Professional Conference Presentations  
Use standard citation format common to the disciplines; Only report what appeared in 2008-09

Last Name	First Name	Standard Citation (Max characters allowed:500)
Jessey	David	Jessey, David R., and Bruns, Jessica J., April 2009, Tectonic implications of basaltic volcanism within the central Owens Valley, California, Keynote Address, 2009 California Desert Studies Desert Studies Symposium
Jessey	David	Jessey, David R., March 2009, Tectonic Implication of Basaltic Volcanism within the Eastern California Shear Zone, Southern California Chapter of the Society of Mining Engineers, Pomona, CA
Jessey	David	Jessey, David R., Nov. 2008, Cenozoic volcanism within the Owens Valley, CA, Inland Geological Society, Riverside, CA
Marshall	Jeffrey	Marshall, J.S., 2009, Integrating research into the undergraduate geosciences curriculum: The San Gabriel Mountain foothills geomorphology field research project: Cal Poly Pomona University Provost's Symposium on Teaching, April 17.
Marshall	Jeffrey	Marshall, J.S., 2009, Geomorphology field research project: Mountain front faulting and alluvial fans, San Gabriel Mountain Foothills, Southern California (PowerPoint seminar), On the Cutting Edge Program - Professional Development Workshop for Geoscience Faculty: Teaching Geomorphology in the 21st Century, Colorado State University, Ft. Collins, CO, July 28-August 2:
Marshall	Jeffrey	Marshall, J.S., *LaFromboise, E.J., *Utick, J.D., *Khaw, F., *Morrish, S.C., *Piestrzeniewicz, P., *Gilbert, R.C., Gardner, T.W., and Protti, J.M., 2008, Tectonic geomorphology and forearc deformation along the Nicoya Peninsula seismic gap, Costa Rica: Memoria: Programa y Resúmenes, IX Congreso Geológico de América Central, 02-04 Julio, 2008, San José, Costa Rica, p. 122.
Marshall	Jeffrey	López, A., Marshall, J.S., Chinchilla, A.L., Sak, P.B., Chiesa,

		S., Alvarado, G.E., Gazel, E., 2008, Stress field map of Costa Rica: The Sigma Project: Memoria: Programa y Resúmenes, IX Congreso Geológico de América Central, 02-04 Julio, 2008, San José, Costa Rica, p. 112.
Marshall	Jeffrey	Marshall, J.S., LaFromboise, E.J., Utick, J.D., Khaw, F., Morrish, S.C., Piestrzeniewicz, P., Gardner, T.W., Protti, J.M., and Spotila, J.A., 2008, Tectonic geomorphology and paleoseismology along the Nicoya Peninsula seismogenic zone, Costa Rica: NSF MARGINS Program Workshop, The Next Decade of the Seismogenic Zone Experiment (SEIZE), September 22-26, 2008, Timberline Lodge, Mt. Hood, Oregon, Abstract Volume, p. 45.
Marshall	Jeffrey	Marshall, J.S., *LaFromboise, E.J., *Utick, J.D., *Khaw, F., *Morrish, S.C., *Piestrzeniewicz, P., Protti, M., Gardner, T.W., Sak, P.B., Fisher, D.M., and Spotila, J.A., 2008, Coastal tectonics of the Nicoya Peninsula seismic gap, Costa Rica: Geological Society of America, Abstracts with Programs, v. 40, p. 163-5, Geological Society of America Annual Meeting, Houston, TX, October 5-9.
Marshall	Jeffrey	Sak, P., Fisher, D., Gardner, T., Marshall, J., and LaFemina, P., 2008, Relationship among rough crust subduction, forearc kinematics, and Quaternary uplift rates, Costa Rican segment of the Middle America Trench: Geological Society of America, Abstracts with Programs, v. 40, p. 163-4, Geological Society of America Annual Meeting, Houston, TX, October 5-9.
Nourse	Jonathan	Nourse, Jonathan A., 2008, Gold-Silver-Copper-Molybdenum Exploration Meets Structural Geology and Tectonics along the Sonora Mineral Belt, Northwestern Mexico, Provost's Symposium on Faculty Research, California State Polytechnic University, December 15.
Nourse	Jonathan	Nourse, Jonathan A., 2008, Precious and Base Metals Exploration Meets Structural Geology and Tectonics along the Sonora Mineral Belt, Northwestern Mexico, Inland Geological Society, August 8.
Nourse	Jonathan	Nourse, Jonathan A., 2009, Gold-Silver-Copper-Molybdenum Exploration Meets Structural Geology and Tectonics along the Sonora Mineral Belt, Northwestern Mexico, Society of Mining Engineers, April 21.
Nourse	Jonathan	Wicks, L., Oliver, B., Heaton, D., Avant, T., Khalighi, A., and Nourse, Jonathan A., 2008, Delineation of the SCE hydroelectric Diversion System and Eroded Segments of the Old Mount Baldy Road in San Antonio Canyon Using GPS / GIS Technology, poster presentation for Southern California Conference on Undergraduate Research, California State Polytechnic University, Pomona, November 22.

Nourse	Jonathan	Carey, Lauren, and Nourse, Jonathan A, 2008, Baseflow Recession of Springs in Icehouse Canyon, San Gabriel Mountains, CA, poster presentation for Southern California Conference on Undergraduate Research, California State Polytechnic University, Pomona, November 22.
Polet	Jascha	Polet, J., Thio, H. K., and Earl, J., 2008, Implementation of Near Real-time Methods Using Surface Waves to Determine Earthquake Source Characteristics at the National Earthquake Information Center, American Geophysical Union Fall conference, San Francisco, CA, December 15-19.
Polet	Jascha	Polet, J., Thio, H. K., and Earl, J., 2009, Implementation of a Surface Wave Back-Propagation Method for Near Real-Time Determination of Earthquake Locations and Magnitudes, Seismological Society of America Spring meeting, Monterey, CA, April 8-9.
Polet	Jascha	Polet, J., Thio, H. K., and Earl, J., 2009, Near Real Time Fully-Automatic Determination of Global Centroid Moment Tensors at the National Earthquake Information Center, 31st Course of the International School of Geophysics, International Workshop on Real Time Seismology: Rapid Characterization of the Earthquake Source and of its Effects (EMFCSC), Erice, Sicily, 2 - 8 May, 2009.

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**FACULTY and STAFF DEVELOPMENT INDICATORS**  
**Non-WTU Teaching Activity**

NAME of Department: Geology

NAME of College: College of Science

Faculty/Staff Development Indicators: Non-WTU Teaching Activity

Use standard citation format common to the disciplines; Only report what appeared in 2008-09

Last Name	First Name	Standard Citation (Max characters allowed:500)
Jessey	David	Ongoing work related to the Geology graduate proposal
Berry	David	Charles Darwin Bicentennial Workshop; Symposium on Teaching of Evolution, UCMP, Berkeley, CA, February 9-10.
Berry	David	Member, Forensic Sciences Program, Cal Poly; lecturer in paleopathology.
Berry	David	"Coal – Promise and Problems" – lecture in Energy and Society Program at the request of Dr. Hector Mirales, Chair.
Berry	David	Member, Blended Programs Project (Liberal Studies), Dr. Ed Walton, Chair
Berry	David	Numerous field trips to investigate potential thesis study and fossil collecting sites (paleontology) in southern CA and NV.
Berry	David	Three trips to Owens Valley, Inyo Mountains in preparation for Desert Symposium Spring Field Trip, April 2009.
Berry	David	Investigation of Miocene microvertebrates (unpub.), Cajon Pass, CA
Polet	Jascha	31st Course of the International School of Geophysics International Workshop on Real Time Seismology: Rapid Characterization of the Earthquake Source and of its Effects (EMFCSC, Erice, Sicily, 2 - 8 May, 2009)
Polet	Jascha	Proposed and developed new GE class: GSC195 "Living in Earthquake Country" Contributed to development of new emphasis areas in Geology and Integrated Earth Studies major curriculum, in particular the Environmental and Earthquake Geophysics emphasis in Geology
Polet	Jascha	Investigated, requested and ordered refraction seismology equipment and software that can be used to interpret seismic data acquired with this equipment, to be used in senior thesis research and several geophysical classes



Polet	Jascha	Started process of requesting quotes and examining most appropriate type of equipment for acquisition of Ground Penetrating Radar system to be used in several geophysics classes
Polet	Jascha	Dry run of exploration geophysics field experiments using gravimeter
Polet	Jascha	Recruited students from diverse majors, including Civil Engineering, Computer Science, Liberal Studies and Aeronautical Engineering into GSC415, GSC334 and GSC299. These Geology and Integrated Earth Studies core courses are not GE classes but offer attractive components of the Geology minor
Polet	Jascha	New course preparation and development: GSC 225-- Quantitative Applications in Earth Sciences
Polet	Jascha	New course preparation and development: GSC 434-- Shallow Surface Geophysics
Polet	Jascha	Contributed to Department's reorganization of Geology and Integrated Earth Studies degree curricula into new emphasis areas
Marshall	Jeffrey	Co-Designed (with Jon Nourse) a new interdisciplinary course in Watershed Restoration to be taught Spring, 2010 for Regenerative Studies
Marshall	Jeffrey	Science Content Expert, Cortez Elementary School Teacher Training Workshops, College of Science Center for Education and Equity in Mathematics, Science, and Technology (CEEMaST), June 29-July 2, 2009.
Marshall	Jeffrey	Faculty organizer for Cal Poly Pomona Geology Club Earthquake Hazards Information Booth, Great Southern California ShakeOut Emergency Preparedness Fair, Bronco Student Center, November 4, 2008.
Marshall	Jeffrey	Served as graduate research advisor for Cal Poly Pomona Geology alumnus Eli LaFromboise, M.S. student in the Geological Sciences Department at Cal State Northridge.
Marshall	Jeffrey	Led tour of Tujunga Wash and Los Angeles River stream restoration sites for Dr. Jill Singer, National Science Foundation (NSF) Division of Undergraduate Education Program Director and former President Council on Undergraduate Research (CUR), Nov. 23, 2008.
Marshall	Jeffrey	Interview with reporter of Poly Post Newspaper, May 19, 2009, on earthquake hazards at Cal Poly Pomona (article published 5/26/09, "Earthquake shakes up concern among students", The Poly Post, Cal Poly Pomona University, v. 64, no. 29, p. 5).
Marshall	Jeffrey	Interview with reporter of Tico Times Newspaper, San José, Costa Rica, on earthquake hazards of the Nicoya Peninsula, January 15, 2009

Marshall	Jeffrey	Faculty mentor for Senior Thesis advisee Shawn Morrish at IX Congreso Geológico de América Central, San José, Costa Rica, July 2-4, 2008 (including talks and poster sessions, conference banquet & keynote talks attended by international geoscientists, and lunch and dinner meetings with Costa Rican and U.S. research colleagues).
Marshall	Jeffrey	On the Cutting Edge Program – Professional Development Workshop for Geoscience Faculty: Teaching Geomorphology in the 21st Century, Colorado State University, Ft. Collins, Colorado, July 28-August 2, 2008.
Marshall	Jeffrey	Council on Undergraduate Research (CUR) and California State University (CSU) Workshop on Institutionalizing Undergraduate Research, California State University, San Bernardino, October 31-November 2, 2008.
Marshall	Jeffrey	Member of Cal Poly Pomona's organizing committee for Southern California Conference on Undergraduate Research (SCCUR), California State Polytechnic University, Pomona, California, November 22, 2008.
Marshall	Jeffrey	American Association of Colleges and Universities (AACU) Conference: Shaping Faculty Roles in a Time of Change: Leadership for Student Learning, San Diego, California, April 2-4, 2009.
Marshall	Jeffrey	Worked with Geological Sciences Department colleagues to develop new curriculum for Geology and Integrated Earth Studies majors.
Marshall	Jeffrey	Worked with Geological Sciences Department colleagues to develop proposal for Geology Master of Sciences Degree program.
Marshall	Jeffrey	Revised course assignments/activities for Geomorphology (GSC 323) based on strategies learned at NSF Cutting Edge Workshop "Teaching Geomorphology in the 21st Century"
Marshall	Jeffrey	Continued to revise existing hands-on teaching activities for Earth Science Education (SCI 212), and employ new activities discovered on-line.
Marshall	Jeffrey	Developed new strategy for Tectonic Geomorphology Field Module (GSC 491L) based on experience and student comments from previous version of this course (SP 2006).
Marshall	Jeffrey	Chair, UR-BRONCO Undergraduate Research Faculty Working Group
Marshall	Jeffrey	Member, University Teacher-Scholar Task Force
Marshall	Jeffrey	Member, WASC General Education Assessment Team (Meeting with WASC Reps, Oct. 9, 2008)
Marshall	Jeffrey	Member, Faculty Advisory Board, Science Technology and Society (STS) Program
Marshall	Jeffrey	Member, Faculty Advisory Board, Cal Poly Pomona Center for GIS Research (CGISR)

Marshall	Jeffrey	Member, Faculty Advisory Board, Cal Poly Pomona International Studies Minor Program
Marshall	Jeffrey	Faculty Participant, Cal Poly Pomona Teacher Quality Enhancement Program (TQE)
Marshall	Jeffrey	Member, College of Science Teacher Education Working Group
Marshall	Jeffrey	Contributing Faculty Member, College of Science Center for Education and Equity in Mathematics, Science, and Technology (CEEMaST)
Marshall	Jeffrey	Member of Management Team and Faculty Advisor, NSF - STEM Scholarship Program
Marshall	Jeffrey	Faculty Content Specialist, NASA LiftOff Science Education Program
Marshall	Jeffrey	Preparation for Sedimentary Geology (GSC 423/423L): --Developed and presented 14 new powerpoint lectures -- Each module included text, numerous illustrations of field sites, rock hand samples, and thin section photographs. --This was the first quarter powerpoint has been used in Sedimentary Geology. Students received integrated, structured, organized, illustrated lectures.
Nourse	Jonathan	Co-Designed (with Jeff Marshall) a new interdisciplinary course in Watershed Restoration to be taught Spring, 2010 for Regenerative Studies
Nourse	Jonathan	Chair, Geology Department Curriculum Development committee: 2008-09: --researched and compiled information on current career trends --reorganized Geology Degree curriculum into three emphasis areas --reorganized Integrated Earth Studies Degree curriculum into two emphasis areas --carried out curriculum consultations, shepherded documents through review process
Nourse	Jonathan	Chair, Geology Department Strategic Planning committee, 2008-09: --met with faculty to brainstorm and compile data on strategic directions --authored Geological Sciences Strategic planning document, November, 2008 --revised Geological Sciences Strategic planning document after College of Science planning sessions, April, 2009
Nourse	Jonathan	Peer review of Dr. Jacha Polet's Shallow Subsurface Geophysics course, GSC 334L, February, 2009
Nourse	Jonathan	Peer review of Dr. Jeff Marshall's Geological Science course, SCI 212L, March, 2009
Nourse	Jonathan	Peer review of Dr. Hilary Lackey's Natural Disasters course,

		GSC 350, May, 2009
Nourse	Jonathan	Department Assessment Coordinator— Winter Quarter, 2009
Nourse	Jonathan	Geology Department representative, College of Science selection committee for the Distinguished Teaching Award
Nourse	Jonathan	Recruitment, training, and mentoring of four part-time faculty
Nourse	Jonathan	Field investigation of Padre Madre Mine in Cargo Muchacho Mountains (SE California) to prepare for Structural Geology (GSC 333L) field trip, November 6, 2008

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**FACULTY and STAFF DEVELOPMENT INDICATORS**  
**Contributions to Professional Associations**

NAME of Department: Geology

NAME of College: College of Science

Faculty/Staff Development Indicators: Contributions to Professional Associations

Use standard citation format common to the disciplines; Only report what appeared in 2008-09

Last Name	First Name	Standard Citation (Max characters allowed:500)
Marshall	Jeffrey	National Science Foundation (NSF), invited proposal review panelist, Fall 2008, Science, Technology, Engineering, and Mathematics Talent Expansion Program (STEP)
Marshall	Jeffrey	Geosciences Division Councilor, Council on Undergraduate Research (CUR), Washington, D.C., (since 2004) currently serving 2nd elected term until 2010.
Marshall	Jeffrey	Institutionalizing Undergraduate Research Facilitator/Consultant, Council on Undergraduate Research (CUR), Follow-Up Site Visit and Invited Speaker at Town Hall Meeting: California State University San Marcos, September 18, 2008.
Marshall	Jeffrey	Session chair and abstract reviewer: Coastal Tectonics of the Pacific Rim: Geomorphology, Structure, and Hazards, Geological Society of America (GSA), Annual Meeting, Houston, TX, October 5, 2008.
Marshall	Jeffrey	Faculty organizer for Association of Environmental and Engineering Geologists (AEG), Inland Empire Chapter Meeting and Lecture, sponsored by the Cal Poly Pomona Geology Club, Kellogg West Conference Center, April 15, 2009.
Marshall	Jeffrey	Faculty organizer for campus lecture by 2008-09 GSA-AEG Jahn's Distinguished Lecturer, Dr. Edmund Medley, Geology Speaker Series, Cal Poly Pomona, April 16, 2009.
Marshall	Jeffrey	Faculty reviewer for student research abstracts submitted to the Society for the Advancement of Chicanos and Native Americans in Science (SACNAS) Annual Conference, June 2009.
Marshall	Jeffrey	Faculty reviewer for student research abstracts submitted to the Southern California Council of Undergraduate Research

		(SCCUR) Annual Conference, November 22, 2008.
Nourse	Jonathan	Peer review of Spanish language article submitted to Mexican geological journal "Revista"
Nourse	Jonathan	Faculty reviewer for student research abstracts submitted to the Southern California Council of Undergraduate Research (SCCUR) Annual Conference, November 22, 2008.
Polet	Jascha	Peer reviewer for manuscript submitted to journal "Geophysical Journal International"
Polet	Jascha	Peer reviewer for manuscript submitted to journal "Earth, Planets and Space"
Polet	Jascha	Peer reviewer for proposal submitted to Geophysics program of National Science Foundation
Polet	Jascha	Faculty organizer for the southern California "Shake Out" earthquake awareness exercise on Cal Poly Pomona campus , University Student Union, November 4, 2008.

Annual Report on Indicators of Success for 2008-09  
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**FACULTY and STAFF DEVELOPMENT INDICATORS**

**External Grants**

NAME of Department: Geology

NAME of College: College of Science

Faculty/Staff Development Indicators: External Grants

Use standard citation format common to the disciplines; Only report what appeared in 2008-09

Last Name	First Name	Standard Citation (Max characters allowed:500)
Jessey	David	PI for Micro-Imaging Spectrometry, JPL Grant #J2252 (\$5000). Funded November 2008
Jessey	David	Joint Proposal with Pomona College for the Operation of a Collaborative XRF Facility; (June 2009) NSF CCLI Grant Proposal, Total Budget (~\$500,000). (Pending)
Marshall	Jeffrey	Collaborative Research: Seismogenesis of the Middle America Trench at the Nicoya Peninsula over multiple seismic cycles, 3-year collaborative project involving two PIs (Jeff Marshall, Cal Poly Pomona University, and James Spotila, Virginia Tech University), including Research Experience for Undergraduates (REU) Program: National Science Foundation (NSF) MARGINS Program - submitted July 1, 2008 - (Total Request: \$394,000, Cal Poly Pomona Budget: \$179,000)
Marshall	Jeffrey	Collaborative Research: Transformation of Oceanic Plateaus Into Continents (TROPICS), 5-year multi-university collaborative project, including Research Experience for Undergraduates (REU) Program: National Science Foundation (NSF) Continental Dynamics Program - submitted November 1, 2008 - (Total Request: \$2.85 million, Cal Poly Pomona Budget: \$261,000):
Marshall	Jeffrey	Senior Project Personnel - National Science Foundation (NSF) Scholarships in Science, Technology, Engineering, and Mathematics (S-STEM) Program (\$584,000 awarded to P.I. Barbara Burke): Comprehensive Scholarship Program for Mathematics, Physical, Biological, and Computer Science Majors, Cal Poly Pomona University.
Marshall	Jeffrey	Science Content Faculty Specialist - National Aeronautics and Space Administration (NASA) Liftoff Grant Program (Awarded to Cal Poly Pomona P.I. Rakesh Mogul): NASA

		LIFTOFF: NASA Learning Inspires Fundamental Transformation by Opening Future Frontiers for High School Science, Technology, Engineering and Mathematics Education.
Nourse	Jonathan	Alluvial Fan Task Force: Faculty consultant involved in writing protocol for urban development on alluvial fans, Center for GIS Research, California State Polytechnic University, Pomona, summer, 2008.
Nourse	Jonathan	Late Quaternary Evolution of the East-Central San Gabriel Mountains Frontal Fault System, \$61,014 proposal to the USGS National Earthquake Hazards Reduction Program for the period January 1-December 31, 2010, (Pending)
Polet	Jascha	The Seismology of Shallow Intraplate Subduction Earthquakes: From Outer Rise to Interface; National Science Foundation; Original amount: \$106,961; Transfer amount: \$72,000 (Active)
Polet	Jascha	Collaborative Research with California State Polytechnic University in Pomona and URS Corporation: Rapid Estimates of Rupture Extent for Large Earthquakes Using Aftershocks; National Earthquake Hazard Reduction Program; Amount awarded: \$29,185 (Active)
Polet	Jascha	Collaborative Research with California State Polytechnic University, Pomona, and URS Corporation: Near Real-Time Determination of Focal Mechanisms and Depths of Large Worldwide Earthquakes; National Earthquake Hazard Reduction Program; Amount awarded: \$29,185 (Active)
Polet	Jascha	US Geologic Survey Intergovernmental Personnel Act 2009; United States Geological Survey; Amount awarded: \$10,403 (Active)
Polet	Jascha	Exploring The Importance of 3-D Structure on the Source Characterization of Large Subduction Zone Earthquakes and Post Earthquake Loss Assessment: Collaborative Research with California State Polytechnic University in Pomona and URS Corporation; National Earthquake Hazard Reduction Program; Amount requested: \$44,459 (Pending)
Polet	Jascha	Improving the Identification of pwP and pP Depth Phases and Their Application for Routine Estimates of Depth and Location of Submarine Earthquakes: Collaborative Research with California State Polytechnic University in Pomona and URS Corporation; National Earthquake Hazard Reduction Program; Amount requested: \$45,031 (Pending)



Annual Report on Indicators of Success for 2008-09  
Department and College Reports

**FACULTY and STAFF DEVELOPMENT INDICATORS**  
**Awards and Recognition**

NAME of Department: Geology

NAME of College: College of Science

Faculty/Staff Development Indicators: Awards and Recognition

Use standard citation format common to the disciplines; Only report what appeared in 2008-09

Last Name	First Name	Standard Citation (Max characters allowed:500)
Jessey	David	Cal Poly Pomona Emeritus Faculty award
Klasik	John	Cal Poly Pomona Emeritus Faculty award
Marshall	Jeffrey	Cal Poly Pomona Provost's Teacher Scholar, 2007-09
Marshall	Jeffrey	National Association of Geoscience Teachers (NAGT) - On the Cutting Edge Program Web Site: Early Career Faculty Case Study: Jeff Marshall, Cal Poly Pomona University
Marshall	Jeffrey	National Association of Geoscience Teachers (NAGT) - On the Cutting Edge Program Web Site: Teaching Geomorphology in the 21st Century, Geomorphology Course Case Study: Jeff Marshall, Cal Poly Pomona University

Annual Report on Indicators of Success for 2008-09  
Department and College Reports

**STUDENT DEVELOPMENT INDICATORS**  
**Publications & Creative Activities (Peer Reviewed)**

NAME of Department: Geology

NAME of College: College of Science

Undergraduate and Graduate Student Development Indicators: Publications and Creative Activities  
(Peer Reviewed)

Use standard citation format common to the disciplines; Only report what appeared in 2008-09

Last Name	First Name	Standard Citation (Max characters allowed:500)
Amborn	Terri	Gardner, T., Webb, J., Pezzia, C., *Amborn, T., Tunnell, R., Flanagan, S., Merritts, D., Marshall, J., Fabel, D., Cupper, M.L., 2009, Episodic intraplate deformation of stable continental margins: evidence from Late Neogene and Quaternary marine terraces, Cape Liptrap, Southeastern Australia: Quaternary Science Reviews, v. 28, no. 1, p. 39-53.
Balzer	Suzanne	Berry, David R.and Balzer, Suzanne M. , 2009, Paleozoic section at Mazourka Canyon, Inyo County, California, in Landscape Evolution at an Active Plate Margin, Jessey, David R. and Robert E. Reynolds, editors, California Desert Studies Center Symposium Volume and Field Guide, Zzyzx, CA
Balzer	Suzanne	Berry, David R.and Balzer, Suzanne M. , 2009, Lower Cambrian-Precambrian stratigraphy and fossil fauna of the Westgard Pass area, Inyo County, California, in Landscape Evolution at an Active Plate Margin, Jessey, David R. and Robert E. Reynolds, editors, California Desert Studies Center Symposium Volume and Field Guide, Zzyzx, CA.
Bruns	Jessica	Bruns, Jessica J., Anderson, Cami Jo, and. Jessey, David R., 2009, Basaltic volcanism in the southern Owens Valley, California, in Landscape Evolution at an Active Plate Margin, Reynolds, R.E., and Jessey, D.R., eds., California Desert Studies Center Symposium Volume and Field Guide, Zzyzx, CA, pp. 98-106.
Carey	Lauren	Carey, Lauren, and Nourse, Jonathan A, 2008, Baseflow Recession of Springs in Icehouse Canyon, San Gabriel Mountains, CA: 16th Southern California Conference on Undergraduate Research (SCCUR), Program with Abstracts,

		California State Polytechnic University, Pomona, November 22.
LaFramboise	Ely	Marshall, J.S., *LaFromboise, E.J., *Utick, J.D., *Khaw, F., *Morrish, S.C., *Piestrzeniewicz, P., Protti, M., Gardner, T.W., Sak, P.B., Fisher, D.M., and Spotila, J.A., 2008, Coastal tectonics of the Nicoya Peninsula seismic gap, Costa Rica: Geological Society of America, Abstracts with Programs, v. 40, Abstract 163-5.
Morrish	Shawn	Morrish, S. and Marshall, J., 2008, Neotectonics and geomorphology of Quaternary marine and fluvial terraces at Puerto Carrillo and Río Ora, Nicoya Peninsula, Costa Rica: 16th Southern California Conference on Undergraduate Research (SCCUR), Program with Abstracts, November 22
Utick	John	Marshall, J.S., *LaFromboise, E.J., *Utick, J.D., *Khaw, F., *Morrish, S.C., *Piestrzeniewicz, P., *Gilbert, R.C., Gardner, T.W., and Protti, J.M., 2008, Tectonic geomorphology and forearc deformation along the Nicoya Peninsula seismic gap, Costa Rica: Memoria: Programa y Resúmenes, IX Congreso Geológico de América Central, 02-04 Julio, 2008, San José, Costa Rica, p. 122.
Wicks	Logan	Wicks, L., Oliver, B., Heaton, D., Avant, T., Khalighi, A., and Nourse, Jonathan A, 2008, Delineation of the SCE hydroelectric Diversion System and Eroded Segments of the Old Mount Baldy Road in San Antonio Canyon Using GPS / GIS Technology: 16th Southern California Conference on Undergraduate Research (SCCUR), Program with Abstracts, California State Polytechnic University, Pomona, November 22.

Annual Report on Indicators of Success for 2008-09  
Department and College Reports

**STUDENT DEVELOPMENT INDICATORS**  
**Publications & Creative Activities (Non-Peer Reviewed)**

NAME of Department: Geology

NAME of College: College of Science

Undergraduate and Graduate Student Development Indicators: Publications and Creative Activities  
(Non-Peer Reviewed)

Use standard citation format common to the disciplines; Only report what appeared in 2008-09

Last Name	First Name	Standard Citation (Max characters allowed:500)
Agunwah	Reggie	Agunwah, Reggie, 2009, Structural Analysis of Oriented Blocks in the Hogback Landslide Deposit, Eastern San Gabriel Mountains, California: senior thesis, Cal Poly Pomona, 21 pages plus attachments.
Balzer	Suzanne	Balzer, Suzanne, 2009, Analysis and mitigation of the January, 2005 landslides in Santa Anita Canyon, San Gabriel Mountains, California: Senior thesis, California State Polytechnic University, Pomona, 27 pages plus plates.
Carey	Lauren	Carey, Lauren R., 2009, Analysis of Baseflow Recession in Icehouse Canyon, San Gabriel Mountains, California: senior thesis, Cal Poly Pomona, 41 pages plus appendices.
Ellis	Rob	Ellis, Robert, 2008, Tectonic Geomorphology of the Southeast San Gabriel Mountains, Southern California: Implications of Basinward Fault Propagation and Fault Block Isolation of Potato Mountain, Senior thesis, California State Polytechnic University, Pomona, 67 pages plus plates.
Gilbert	Reynicole	Gilbert, Reynicole, 2009, Variations in tectonic uplift patterns based on stream-length gradient indices, Nicoya Peninsula, Costa Rica: Senior Thesis, Cal Poly Pomona University, 49 p. plus appendices.
Khalighi	Azad	Khalighi, Azad, 2008, Engineering Geology: Slope Stability Analysis for the May, 2007 Burn Area of Griffith Park, Eastern Santa Monica Mountains, senior thesis, Cal Poly Pomona, 14 pages plus attachments.
Morrish	Shawn	Morrish, S. and Marshall, J., 2009, Neotectonics and geomorphology of Quaternary marine and fluvial terraces at Puerto Carrillo and Río Ora, Nicoya Peninsula, Costa Rica: Cal Poly Pomona University Student Research and Creative Activity Poster Exhibition, February 26, 2nd Place Winner.

Morrish	Shawn	Morrish, S. and Marshall, J., 2009, Neotectonics and geomorphology of Quaternary marine and fluvial terraces at Puerto Carrillo and Río Ora, Nicoya Peninsula, Costa Rica: Cal Poly Pomona University, College of Science 4th Annual Undergraduate Research Symposium, May 15.
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Annual Report on Indicators of Success for 2008-09  
Department and College Reports

**STUDENT DEVELOPMENT INDICATORS**  
**Professional Conference Presentations**

NAME of Department: Geology

NAME of College: College of Science

Undergraduate and Graduate Student Development Indicators: Professional Conference Presentations

Use standard citation format common to the disciplines; Only report what appeared in 2008-09

Last Name	First Name	Standard Citation (Max characters allowed:500)
Carey	Lauren	Carey, Lauren, and Nourse, Jonathan A, 2008, Baseflow Recession of Springs in Icehouse Canyon, San Gabriel Mountains, CA, poster presentation for Southern California Conference on Undergraduate Research, California State Polytechnic University, Pomona, November 22.
LaFramboise	Ely	Marshall, J.S., *LaFromboise, E.J., *Utick, J.D., *Khaw, F., *Morrish, S.C., *Piestrzeniewicz, P., Protti, M., Gardner, T.W., Sak, P.B., Fisher, D.M., and Spotila, J.A., 2008, Coastal tectonics of the Nicoya Peninsula seismic gap, Costa Rica: Geological Society of America, Abstracts with Programs, v. 40, Abstract 163-5.
Morrish	Shawn	Morrish, S. and Marshall, J., 2008, Neotectonics and geomorphology of Quaternary marine and fluvial terraces at Puerto Carrillo and Río Ora, Nicoya Peninsula, Costa Rica: poster presentation for Southern California Conference on Undergraduate Research (SCCUR), November 22
Utick	John	Marshall, J.S., *LaFromboise, E.J., *Utick, J.D., *Khaw, F., *Morrish, S.C., *Piestrzeniewicz, P., *Gilbert, R.C., Gardner, T.W., and Protti, J.M., 2008, Tectonic geomorphology and forearc deformation along the Nicoya Peninsula seismic gap, Costa Rica: Memoria: Programa y Resúmenes, IX Congreso Geológico de América Central, 02-04 Julio, 2008, San José, Costa Rica, p. 122.
Wicks	Logan	Wicks, L., Oliver, B., Heaton, D., Avant, T., Khalighi, A., and Nourse, Jonathan A, 2008, Delineation of the SCE hydroelectric Diversion System and Eroded Segments of the Old Mount Baldy Road in San Antonio Canyon Using GPS / GIS Technology, poster presentation for Southern California Conference on Undergraduate Research, California State

		Polytechnic University, Pomona, November 22.
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Annual Report on Indicators of Success for 2008-09  
Department and College Reports

**STUDENT DEVELOPMENT INDICATORS**  
**Awards and Recognition**

NAME of Department: Geology

NAME of College: College of Science

Undergraduate and Graduate Student Development Indicators: Awards and Recognition  
Use standard citation format common to the disciplines; Only report what appeared in 2008-09

Last Name	First Name	Standard Citation (Max characters allowed:500)
Bruns	Jessica	Recipient of \$750 Margaret Van Buskirk Memorial Scholarship, May, 2009
Carey	Lauren	Recipient of 2009 Julian McVie Award for highest academic standing in the College of Science
Carey	Lauren	Dean's List: Fall, Winter and Spring Quarters of 2008-09
Carey	Lauren	Recipient of \$1000 Ernest Prete Junior Foundation Scholarship, May, 2009
Engle	Samantha	Dean's List: Spring Quarter, 2009
Hanks	Audra	Dean's List: Spring Quarter, 2009
Kinder	Kelly	Dean's List: Winter and Spring Quarters of 2008-09
Kinder	Kelly	Recipient of \$750 Henderson-Valles Academic Scholarship, May, 2009
McDonald	Melissa	Dean's List: Winter Quarter, 2009
Nunez	Liliana	Dean's List: Fall and Winter Quarters of 2008-09
Oliver	Brian	Dean's List: Winter Quarter, 2009
Pepin	Jeffrey	Dean's List: Winter Quarter, 2009
Pepin	Jeffrey	Recipient of \$450 Association of Engineering and Environmental Geologists Brunton Compass Award, October, 2008
Retzinger	Brent	Recipient of \$450 Association of Engineering and Environmental Geologists Brunton Compass Award, October, 2008
Wenceslao	Lilibeth	Dean's List: Spring Quarter, 2009
Willis	Matthew	Dean's List: Winter Quarter, 2009
Willis	Matthew	Recipient of \$3000 Grace Teal Memorial Scholarship, May, 2009