

RR #52 SETTING UP WLAC's SEISMOLOGICAL STATION ==> PAGE 7



Planning Report - 2016

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Science - Earth Sciences

Unit Goal

Unit Goal

Improve Student Learning Outcomes by Upg	
PROVIDE A FULL DESCRIPTION OF THE GOAL	
Unit Goal	Improve Student Learning Outcomes by Upgrading Laboratory facilities
Goal Number	1
Description of the Goal	The Earth Science program (Geology, Earth Science, Oceanography, Geography, and Environmental Science) has been expanding during the last 6 years by offering new courses, hiring new full-time faculty, and purchasing and planning to purchase (e.g. seismicinstrument) new lab equipment and field gear. In order to facilitate teaching-learning of the Earth sciences by helping instructors in the prep rooms, stockrooms, field preparations, operation and maintenance of equipment & instruments, and making sure OSHA safety requirements at Earth Science Labs are satisfied (especially with respect to handling lab chemicals, minerals and rocks), For improved Student learning outcomes then, it is prudent for the college to secure the services of a highly trained laboratory technician. The planned Action would be to just do that!
Goal Initiation Year (YYYY)	2016
Goal Timeline	Less than 1 year
Goal Current Priority	1
Describe the primary measurable objective for this goal. This is the measure that will assess the degree to which the goal has been met.	1. Students would be better served and become successful when exposed to modern facilities 2. Students will learn subject-specific materials (rocks, minerals, sediments, chemicals, maps, models) that they could take to the labor market
Goal Status	New
DESCRIBE THE NEED THIS GOAL ADDRESSES	

What issues, problems, or opportunities identified in your Program Review will this Goal address?	The full-time professor teaching most Earth science classes is currently doubling as a lab tech. This is stealing most precious time that the professor could have used to plan to improve the course contents including but not limited to more frequent field trips and additional labs for Honors students.
What SLO assessment / reflection will this Goal address?	It is obvious that the more hands-on experiments students perform the better their overall academic performance becomes. Thus, a lab tech who prepares lab materials and makes sure that all lab equipment are in a good and safe working conditions will lead to improved student learning outcomes.
WITH WHICH EDUCATIONAL MASTER PLAN	
STRATEGIC DIRECTIONS OR STRATEGIC GOALS	The full-time professor teaching most Earth science classes is currently doubling as a lab tech. This is stealing most precious time that the professor could have used to plan to improve the course contents including but not limited to more frequent field trips and additional labs for Honors students. The hiring of a lab tech will thus free a lot of time for the professor to take care of such activities.
DOES THIS UNIT GOAL ALIGN?	Recent SLO assessment showed that the more hands-on experiments students perform the better their performance becomes. Thus, a lab tech who prepares lab materials and makes sure that all lab equipment are in a good and safe working conditions will lead to improved student learning outcomes.
AT LEAST 1 DIRECTION/GOAL MUST BE CHOSEN	
USE THE 'LINK' BOX ABOVE TO LINK GOALS.	
EMP Strategic Direction 1: Dedication to Learning	Yes
Goal 1.1: Improve student achievement, both overall & among historically lower-achieving groups.	Yes
Goal 1.2: Create a culture in which faculty develop & apply expertise in proven, effective learner-centered teaching strategies.	Yes
Goal 1.3: Foster ethical & affective development as well as cognitive development in all student populations.	No
Goal 1.4: Inspire & increase the rate of faculty, staff, & administrators' involvement in professional learning activities.	No
EMP Strategic Direction 2: Culture of Continuous Improvement	No
Goal 2.1: Strengthen the processes for assessment & improvement of student learning outcomes & service area outcomes.	No
Goal 2.2: Systematize the evaluation & improvement of West's effectiveness, focusing on planning & resource allocation processes.	No
Goal 2.3: Exercise financial stewardship that ensures fiscal stability while supporting educational excellence & the College mission.	No
Goal 2.4: Enhance & maintain facilities & technology to promote effective teaching & learning.	No

EMP Strategic Direction 3: Programs and Services Responsive to Student Needs	No
Goal 3.1: Create clear completion pathways.	No
Goal 3.2: Develop & implement systematic services to help at-risk students identify goals early	No
Goal 3.3: Prepare students to enter a competitive workforce.	No
Goal 3.4: Enhance curriculum vitality, viability & relevance.	No
EMP Strategic Direction 4: Collaboration, Engagement, and Respect	No
Goal 4.1: Be collegial.	No
Goal 4.2: Eliminate organizational silos.	No
Goal 4.3: Celebrate the achievements of our entire community.	No
EMP Strategic Direction 5: Connections with Communities	No
Goal 5.1: Forge effective alliances with local schools, organization & individuals.	No
Goal 5.2: Open the College to the world.	No
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PLEASE COMPLETE ONE OF THE FOLLOWING	
SETS OF QUESTIONS DEPENDING ON THE	
STATUS OF THIS GOAL	
1) EVALUATION OF "IN PROGRESS" GOAL	

Estimate the % completion of this goal	
Describe the successes has the division/program/service had to date in the accomplishment of this goal.	
Describe the challenges has the division/program/service had to date in the accomplishment of this goal.	
2) EVALUATION OF "MODIFIED" GOAL	

Why was the goal modified?	
3) EVALUATION OF "COMPLETED" GOAL	

when was work on the goal completed? (year)	
Describe what was done to complete the goal.	

Evaluate the effectiveness of implementing the goal. Describe the impact on the division/program/service and on student success that completion of the goal has had.	
What would the division/program/service do differently in the future based on the evaluation of the success in implementing this goal?	
Will completion of this goal lead to developing another goal? If so, describe the new goal.	

Planned Action

BUILDING A SEISMOLOGICAL STATION AT WEST	
PROVIDE BASIC INFORMATION FOR	
EACH PLANNED ACTION	Improve Student Learning Outcomes
Action Number	1
Provide a description of this action. Include the critical steps required to accomplish this action.	The greater Los Angeles area is located in a seismically active region. The world famous San Andreas Fault is less than 100 miles away to the east. In addition, there are about a dozen other significant faults that are capable of generating strong earthquakes. The Newport-Inglewood Fault is one of these. The fault extends for about 45 miles from Culver City southeast, via Inglewood to Newport Beach at which point it runs out into the Pacific Ocean. The fault has a slip rate of approximately 0.6 millimeter/year (0.02 in/year) and is predicted to be capable of a 6.7-7.4 magnitude earthquake on the moment magnitude scale.
What are the expected measurable results of the Action?	<p>Measurable results</p> <ol style="list-style-type: none"> 1. Data collected on this fault will be used to study the Newport-Inglewood Fault, the data & analyses of which will be provided to State, County, & City policy makers towards mitigating earthquake hazards. Communities at or near this active fault as well as seismological research institutions will thus be the direct beneficiaries from this station. 2. Earth Science students at the West Los Angeles College will be involved in the data collection and analysis. This activity shall introduce them to the field of seismology, and hopefully inspire them to pursue seismological studies as they transfer to four-year colleges/universities. 3. As data gathered from the station is made available to or shared with local and regional communities and institutions, West Los Angeles College will become increasingly known as an institution providing useful services to the community. This will have an impact in the number of students wanting to join West Los Angeles College.
Action Initiation Year	2015
Action Priority	2
Action Status	New
Are additional resources needed by the Division/ Department / Program in order to accomplish the Action?	Yes

Linked Planning Objects			
Link Type	Planning Object	Planning Element	User Description

Link Type	Planning Object	Planning Element	User Description
Internal Link	Unit Goal	Improve Student Learning Outcomes by Upg	
Internal Link	Resource Request	SETTING-UP WLAC's SEISMOLOGICAL	
Institutional Link	EMP Objective	Objective 2.4.3 Expand the use of up-to-	

HIRE AN EARTH SCIENCE FACULTY	
USE THE 'LINK' BOX ABOVE TO LINK EACH	
PLANNED ACTION WITH 1 OR MORE	Improve Student Learning Outcomes
UNIT GOALS & RESOURCE REQUESTS IF NEEDED	BUILDING A SEISMOLOGICAL STATION AT WEST
.	1
PROVIDE BASIC INFORMATION FOR	The greater Los Angeles area is located in a seismically active region. The world famous San Andreas Fault is less than 100 miles away to the east. In addition, there are about a dozen other significant faults that are capable of generating strong earthquakes. The Newport-Inglewood Fault is one of these. The fault extends for about 45 miles from Culver City southeast, via Inglewood to Newport Beach at which point it runs out into the Pacific Ocean. The fault has a slip rate of approximately 0.6 millimeter/year (0.02 in/year) and is predicted to be capable of a 6. / 7.4 magnitude earthquake on the moment magnitude scale.
EACH PLANNED ACTION	<p>Measurable results</p> <ol style="list-style-type: none"> 1. Data collected on this fault will be used to study the Newport-Inglewood Fault, the data & analyses of which will be provided to State, County, & City policy makers towards mitigating earthquake hazards. Communities at or near this active fault as well as seismological research institutions will thus be the direct beneficiaries from this station. 2. Earth Science students at the West Los Angeles College will be involved in the data collection and analysis. This activity shall introduce them to the field of seismology, and hopefully inspire them to pursue seismological studies as they transfer to four-year colleges/universities. 3. As data gathered from the station is made available to or shared with local and regional communities and institutions, West Los Angeles College will become increasingly known as an institution providing useful services to the community. This will have an impact in the number of students wanting to join West Los Angeles College.
Action Number	1

<p>Provide a description of this action. Include the critical steps required to accomplish this action.</p>	<p>Of the 48 std hrs of instruction/week taught in the Earth Sci program, adjunct instructors teach 33 (70%). We are violating state mandate that requires full time faculty to teach >75% of courses. We thus plan to hire an Earth Sci. faculty.</p> <p>Critical steps to accomplish the action:</p> <ol style="list-style-type: none"> 1. Justify the need to hire: Adjunct faculty currently teach > 70% of courses. This shows the state mandate is violated & requires us to hire a new faculty 2. Determine courses the new hire will teach: 2 sections of Earth 1, Earth 2, Oceano 1, Env. Sci 1, 2 sections of Geog 1, Geog 15 3. Determine the new hire's Quals: Min Qual: MSc in Earth Sci, Oceano, or Geog; Desired Qual: MSc in Earth Sci, Oceano, or Geog & BSc in another discipline from Earth Sci, Oceano, Geog, Geol, or Envi Sci 4. Discuss the request for the new hire at division meeting: At the meeting held on 11/3/2015, all faculty supported the request 5. Complete FPIP application and upon approval form a hiring committee
<p>What are the expected measurable results of the Action?</p>	<ol style="list-style-type: none"> 1. Student success with Increased transfer in GE clusters 2. Increased enrollment in the disciplines of all the earth sciences 3. Bring back AA for geography and strengthen geology's AA program. 4. Expand into CTE and develop certificate programs, such as field sciences lab tech and GIS.
<p>Action Initiation Year</p>	<p>2015</p>
<p>Action Priority</p>	<p>1.</p>
<p>Action Status</p>	<p>New</p>
<p>Are additional resources needed by the Division/ Department / Program in order to accomplish the Action?</p>	<p>No</p>

Linked Planning Objects			
Link Type	Planning Object	Planning Element	User Description
Internal Link	Resource Request	HIRE AN EARTH SCIENCE FACULTY	
Institutional Link	EMP Objective	Objective 2.2.1 Establish a process for	
Institutional Link	EMP Objective	Objective 2.4.3 Expand the use of up-to-	

Planning Element Impacts

Impact Type	Level Name	Is Impacted?	User Description
Level Impact	Goal 1. Affirm institutional commitment to student		
Level Impact	Goal 2. Support students in preparing for transfer.		

Resource Request

SETTING-UP WLAC's SEISMOLOGICAL STATION	*** RR # 52 ***
USE THE 'LINK' BOX ABOVE TO LINK EACH RESOURCE REQUEST WITH 1 OR MORE	SETTING-UP A SEISMOLOGICAL STATION
PLANNED ACTION.	West Los Angeles College is located less than a mile to the west of the Newport-Inglewood Fault. Except for seismographs managed by Caltech in Pasadena, we are not aware of any seismological stations close to the fault. The approximate cost given below includes digital recorder, sensor, computer & software, Vault interface, enclosure, seismic switch, and code compliance.
	Non-Salary
	One-Time
PROVIDE A DESCRIPTION OF THE REQUEST	2
Provide a description of the Resource Request	West Los Angeles College is located less than a mile to the west of the Newport-Inglewood Fault. Except for seismographs managed by Caltech in Pasadena, we are not aware of any seismological stations close to the fault. The approximate cost given below includes digital recorder, sensor, computer & software, Vault interface, enclosure, seismic switch, and code compliance.
Resource Request Status	New
Type of Request	Non-Salary
Funding Type	One-Time
Resource Request Priority	2
Does this Resource Request meet requirements for health, safety and essential services?	No
If yes, cite the requirement details.	
Does this Resource Request meet local, state or federal regulations or other mandates?	No
If yes, cite the relevant Regulations.	
DETAILED COST BREAKDOWN	

CERTIFICATED SALARY (INCL. FPIP)(100000)	
Position Title	

Class Code	
Check ONE appropriate category based on the majority of the assigned classes. (Note: If none of these categories applies, select Student and Instructional Support Service category.)	
How will this position support or sustain other disciplines and programs?	
Type	
Total Cost of Certificated Benefits	
Total Cost of Certificated Salaries	
CLASSIFIED SALARIES (200000)	
Position Title	
Class Code	
Basis	
Shift	
Permanent or temporary	
Rate	
Hours per pay period	
UNCLASSIFIED SALARIES (200000)	
Assignment	
Rate	
Hours per Pay Period	
NON-SALARY COSTS	
Instructional media materials (Supplies and Printing, 400000)	\$2,500
Non-instructional supplies (Supplies and Printing, 400000)	\$4,000
Printing/copying (Supplies and Printing, 400000)	\$500
Equipment (Instructional and non-instructional) (Capital Outlay, 600000)	\$35,000
Maintenance of equipment)Other Operating Expense, 500000)	\$2,000
Contracts/personal services (Other Operating Expense, 500000)	\$6,000
Alteration and improvement (A & I) (Capital Outlay, 600000)	
Other Expense:	
Other expense GL Account:	Contracts/personal services includes setting up equipment, calibration, and testing.
TOTAL FIRST YEAR COST OF REQUEST (EST.)	

Total estimated cost for the first year of the resource request	\$50,000
ADDITIONAL COMMENTS	
Please note all sources for cost information for the Resource Request that serves to justify the estimated expense.	The instrumentation we are looking for to purchase is computerized digital seismic station, available from Nanometrics Seismological Instruments Inc. in Ontario, Canada, or from Kinometrics, CA (USA). The total cost shown above estimates the following major and auxiliary parts: Digital recorder, sensor, computer & software, vault interface, enclosure, seismic switch, and code compliance.
What are the proposed funding sources?	Grants
Please provide any additional information that was not covered above.	
Resource Request Responsible Person(s)	BERAKI WOLDEHAIMANOT, PH.D. ABRAHA BAHTA , PH.D.

Linked Planning Objects			
Link Type	Planning Object	Planning Element	User Description
Internal Link	Planned Action	BUILDING A SEISMOLOGICAL	

HIRE AN EARTH SCIENCE FACULTY	
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USE THE 'LINK' BOX ABOVE TO LINK EACH	SETTING-UP A SEISMOLOGICAL STATION
RESOURCE REQUEST WITH 1 OR MORE	West Los Angeles College is located less than a mile to the west of the Newport-Inglewood Fault. Except for seismographs managed by Caltech in Pasadena, we are not aware of any seismological stations close to the fault. The approximate cost given below includes digital recorder, sensor, computer & software, Vault interface, enclosure, seismic switch, and code compliance.
PLANNED ACTION.	Non-Salary
.	One-Time
PROVIDE A DESCRIPTION OF THE REQUEST	2
Provide a description of the Resource Request	The Earth Sciences programs offer 3 geography (with multiple sections), 3 geology (with multiple sections) 2 Earth science (with multiple sections), one environmental science, and one oceanography courses on any given semester. We have one full time faculty, whose specialty is geology alongside 4-5 adjunct faculty. We turn away many students, as most of the courses enroll at maximum capacity. As it stands, there are 48 standard hours of instruction per week, with only 15 standard hours for the full time instructor, giving him about 30% of the overall load, the remaining 70% of courses are being taught by adjunct faculty. This makes the ratio of classes taught by full time to courses taught by adjunct faculty at 70% to 30%. We must reverse this ratio and offer our students a more balanced program across the spectrum of the Earth science program. We need to hire an Earth science faculty to complement our resident geologist as well as to conform to state mandate that requires full-time faculty to teach 75% o

Resource Request Status	New
Type of Request	Faculty, Full Time
Funding Type	Ongoing
Resource Request Priority	
Does this Resource Request meet requirements for health, safety and essential services?	No
If yes, cite the requirement details.	
Does this Resource Request meet local, state or federal regulations or other mandates?	No
If yes, cite the relevant Regulations.	
DETAILED COST BREAKDOWN	

CERTIFICATED SALARY (INCL. FPIP)(100000)	
Position Title	INSTRUCTOR
Class Code	
Check ONE appropriate category based on the majority of the assigned classes. (Note: If none of these categories applies, select Student and Instructional Support Service category.)	General Education and Transfer
How will this position support or sustain other disciplines and programs?	
Type	Probationary
Total Cost of Certificated Benefits	\$16,000
Total Cost of Certificated Salaries	\$70,000
CLASSIFIED SALARIES (200000)	
Position Title	
Class Code	
Basis	
Shift	
Permanent or temporary	
Rate	
Hours per pay period	
UNCLASSIFIED SALARIES (200000)	
Assignment	
Rate	

Hours per Pay Period	
NON-SALARY COSTS	
Instructional media materials (Supplies and Printing, 400000)	
Non-instructional supplies (Supplies and Printing, 400000)	
Printing/copying (Supplies and Printing, 400000)	
Equipment (Instructional and non-instructional) (Capital Outlay, 600000)	
Maintenance of equipment)Other Operating Expense, 500000)	
Contracts/personal services (Other Operating Expense, 500000)	
Alteration and improvement (A & I) (Capital Outlay, 600000)	
Other Expense:	
Other expense GL Account:	
TOTAL FIRST YEAR COST OF REQUEST (EST.)	
Total estimated cost for the first year of the resource request	\$86,000
ADDITIONAL COMMENTS	
Please note all sources for cost information for the Resource Request that serves to justify the estimated expense.	
What are the proposed funding sources?	Program 100
Please provide any additional information that was not covered above.	
Resource Request Responsible Person(s)	ABRAHA BAHTA PH.D BERAKI WOLDEHAIMANOT, PH.D.

Linked Planning Objects			
Link Type	Planning Object	Planning Element	User Description
Internal Link	Planned Action	HIRE AN EARTH SCIENCE FACULTY	