

MISSION: How does the program meet the District’s mission and established core competencies? Does program reflect the District’s diversity?

a) Consider offering and scheduling transfer courses on record: Historical Geology (ESCI 121), Earth History (ESCI 122), and Environmental Geology (ESCI 124) to meet general education and transfer standards established by CSU and UC systems, and associate degree standards for Citrus College				Impact					
Action/Activities	Target Date	Person Responsible	Status	FNIC	Facilities	Soft-ware	Equip-ment	Other Personnel	Other
ESCI 122 and ESCI 124 are now offered alternating semesters (ESCI 124 - Spring and 122 - Fall).	—	Rabito Hathaway	C						
ESCI 121 has not been offered due to lack of student pool and updated COR SLOs.	2010	Hathaway	I						Curriculum
b) Consider offering and scheduling transfer (limited) and life-long learning courses on record: Geology of Death Valley National Park (ESCI 140), Geology of Yosemite National Park (ESCI 141), Geology of Channel Islands National Park (ESCI 142), Geology of Joshua Tree National Park (ESCI 143), Geology of Lassen Volcanic National Park (ESCI 144), and Geology of Sequoia-Kings Canyon National Parks (ESCI 145) to meet General Education and transfer standards established by CSU and UC systems, associate degree standards for Citrus College, and community life-long learning courses.				Impact					
Action/Activities	Target Date	Person Responsible	Status	FNIC	Facilities	Soft-ware	Equip-ment	Other Personnel	Other
ESCI 140 - 145 have not been offered due to budget constraints and <u>unfounded</u> accusations that Dr. Hathaway improperly supervised students, put their lives in danger, and never followed college field trip guidelines (although none exist). The derogatory letters inserted into Dr. Hathaway’s personnel file by Irene Malmgren must be removed and destroyed before Dr. Hathaway will teach these much needed courses.	N/A	Administration Malmgren	P					X	

ESCI 140 – 145 have not been offered due to budget constraints and no established field trip guidelines.									
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c) Consider developing and offering: (1) a Physical Geology course without a lab component, or offer a separate lecture and a separate laboratory component, (2) a transferable course in Mineralogy (with a laboratory component), (3) distance education, and hybrid, courses, and (4) a series of life-long learning courses illuminating the geology of selected California State Parks; provide a diversity in class offerings for transfer students and community learning, thus improving Mission compliance.	Impact								
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Action/Activities	Target Date	Person Responsible	Status	FNIC	Facilities	Soft-ware	Equip-ment	Other Personnel	Other
Physical Geology will be offered as soon as COR is written and sent to curriculum.	2009	Hathaway	I						Curriculum
The COR for Mineralogy with a lab has not been written or sent to curriculum.	2010	Hathaway	P						Curriculum
Distance Education or hybrid format for ESCI 130, ESCI 140-145, and ESCI 124 are on the books but the courses have not been offered in DE format. Some courses still need DE format included within the COR.	?	Hathaway	I					Adjuncts	Curriculum
The geology of California’s State Parks has not been written or sent to curriculum. Budget issues may require that work developing it may be put on hold.	?	Administration	P					X	

d) Consider developing and offering team-taught General Education courses in: (1) Planetary Geology (Earth Science-Astronomy instructors), and (2) Evolution of Life (Earth Science-Biology	Impact								
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instructors). Offering these courses will develop closer ties within science departments and provide students and community with a modern perspective and more diverse choices in General Education science course offerings.									
Action/Activities	Target Date	Person Responsible	Status	FNIC	Facilities	Soft-ware	Equip-ment	Other Personnel	Other
Currently, Biology has been approached in regards to team teaching Earth History (ESCI 122).	2009	Hathaway, Han	I					X	

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e) Consider upgrading Physical Oceanography (ESCI 130) to include a laboratory component, thus offering enhanced transferability in marine sciences and offering Citrus College students more choices in meeting the Physical Science with a lab requirement for their Associate degree				Impact					
Action/Activities	Target Date	Person Responsible	Status	FNIC	Facilities	Soft-ware	Equip-ment	Other Personnel	Other
The lab component for the COR has not been written or sent to curriculum.	2010	Hathaway	P						Curriculum
f) Consider reevaluating ESCI 111 (Earth and Space Science for Educators) as part of a larger review of the Science for Educators series of courses in order to enhance the desirability of students to enroll in the course.				Impact					
Action/Activities	Target Date	Person Responsible	Status	FNIC	Facilities	Soft-ware	Equip-ment	Other Personnel	Other
A reevaluation is complete and new COR is to be written and sent to curriculum before course is offered.	2009	Hathaway	C						Curriculum

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g) Consider developing and offering Geology of the National Parks and restructuring California Geology.				Impact					
Action/Activities	Target Date	Person Responsible	Status	FNIC	Facilities	Soft-ware	Equip-ment	Other Personnel	Other
Due to budget constraints the Geology of the National Parks is not likely to be offered. Work on it has temporarily been put on hold.	?	Administration Hathaway	P					X	
Due to budget constraints California Geology is not likely to be offered. Work on it has temporarily been put on hold.	?	Administration Hathaway	P					X	
h) Explore the opportunities to do in-service activities for K-12 teachers at their school site or at a workshop at Citrus College in effort to promote geoscience education in primary and secondary schools and to increase pool of prospective geoscience majors within the UC and CSU system and Citrus College.				Impact					
Action/Activities	Target Date	Person Responsible	Status	FNIC	Facilities	Soft-ware	Equip-ment	Other Personnel	Other
No action has been taken. We were approached however, by Carol Kemp to help 6 th grade Earth Science at Goddard by supplying rock samples.	?	Hathaway Administration	P				Rock Samples	X	

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i) Work with Articulation Officers to change limited (CSU only) transferability courses on record to fully transferable.				Impact					
Action/Activities	Target Date	Person Responsible	Status	FNIC	Facilities	Soft-ware	Equip-ment	Other Personnel	Other
No action has been taken.	Sp 2010	Hathaway Administration	P					X	
j) Consider emphasizing geology and oceanography instruction over physical geography to make more effective use of department personnel.				Impact					
Action/Activities	Target Date	Person Responsible	Status	FNIC	Facilities	Soft-ware	Equip-ment	Other Personnel	Other
This has been done, and should be continued.	—	Rabito	C						

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k) Consider working with the Articulation Officer to possibly change course numbering to follow a more logical, less confusing sequence showing a hierarchy that students can follow; for instance higher numbered courses should be indicative of having lower numbered courses as prerequisites.				Impact					
Action/Activities	Target Date	Person Responsible	Status	FNIC	Facilities	Soft-ware	Equip-ment	Other Personnel	Other
Work with Articulation Officer to achieve a better course numbering system.	2010	Administration Hathaway	P					X	

NEED: How is program addressing needs based on labor market data, enrollment, articulation, advisory committee, regional agreements, etc.?

a) Endeavor to promote the Earth Science Program by advertising in the Schedule of Classes, Clarion, and courses that incorporate Earth Science into curriculum (e.g., Natural History, Physical Geography, Introduction to GIS, Anthropology).				Impact					
Action/Activities	Target Date	Person Responsible	Status	FNIC	Facilities	Soft-ware	Equip-ment	Other Personnel	Other
N/A									

b) To help promote the Earth Science Program, offer more field classes and facilitate field instruction/trips, with faculty and journalistic involvement, to expose students to the exciting outdoor activities and academic stimulation associated with geological sciences.				Impact					
Action/Activities	Target Date	Person Responsible	Status	FNIC	Facilities	Soft-ware	Equip-ment	Other Personnel	Other
N/A									

NEED: How is program addressing needs based on labor market data, enrollment, articulation, advisory committee, regional agreements, etc.?

c) Objectively review the state of Earth Science and Geology Programs at other academic institutions (US, CSU, and community colleges) and evaluate whether the Citrus College Earth Science Program is in line with current geosciences attitudes, trends, and advances and whether it meets the needs of students and faculty entering those disciplines.				Impact					
Action/Activities	Target Date	Person Responsible	Status	FNIC	Facilities	Soft-ware	Equip-ment	Other Personnel	Other
Hathaway completed this as part of his 2006 sabbatical.	—	Hathaway	C						

d) Consider offering courses to meet not just lower division transfer needs, but preparation for major and higher status student transfer needs in addition to General Education requirements. Historical Geology, Mineralogy, and field component courses should be offered and scheduled on a regular basis to achieve these ends.				Impact					
Action/Activities	Target Date	Person Responsible	Status	FNIC	Facilities	Soft-ware	Equip-ment	Other Personnel	Other
Historical Geology COR SLOs must be rewritten and passed through curriculum.	2009	Hathaway							Curriculum
Mineralogy COR SLOs must be written and passed through curriculum.	2009	Hathaway							Curriculum
See Mission (b)	N/A	Administration						X	

QUALITY: Are lec/lab unit values appropriate? Have the course outlines been reviewed/updated regularly? Are disciplines appropriate? Is faculty development adequate? Does program support State and District emphasis on critical thinking, problem solving and written expression? Where is the program in the SLOA cycle? Are course pre-requisites and co-requisites validated?

a) Meet with local representatives of academic institutions and industries to ensure that the Earth Science Program is meeting academic and industry needs.				Impact					
Action/Activities	Target Date	Person Responsible	Status	FNIC	Facilities	Soft-ware	Equip-ment	Other Personnel	Other
No action taken.	2010	Hathaway						X	

b) Develop and integrate student learning outcomes into each course outline of record (please see timeline on page 20).				Impact					
Action/Activities	Target Date	Person Responsible	Status	FNIC	Facilities	Soft-ware	Equip-ment	Other Personnel	Other
SLO's complete for ESCI 124, 130, 140, 141, 142, 143, 144, 145, 180. New SLO's need for ESCI 118, 120, 121, 122	Fa 09	Hathaway	I						

QUALITY: Are lec/lab unit values appropriate? Have the course outlines been reviewed/updated regularly? Are disciplines appropriate? Is faculty development adequate? Does program support State and District emphasis on critical thinking, problem solving and written expression? Where is the program in the SLOA cycle? Are course pre-requisites and co-requisites validated?

c) All class syllabi should include student learning outcomes, clear grading standards, attendance and test make-up policy, drop date, office hours, homework policy, and general DSPS and FERPA statements.				Impact					
Action/Activities	Target Date	Person Responsible	Status	FNIC	Facilities	Soft-ware	Equip-ment	Other Personnel	Other
All complete, except SLOs needed to be added.	Fa 09	Hathaway	I						

d) Replacements for full-time faculty should be arranged so staff development is more feasible for Earth Science faculty. Since there are no replacements for faculty they are hesitant to attend faculty development functions.				Impact					
Action/Activities	Target Date	Person Responsible	Status	FNIC	Facilities	Soft-ware	Equip-ment	Other Personnel	Other
Recent hiring of two adjunct faculty alleviate this concern. Thank you			C					Adjuncts	

QUALITY: Are lec/lab unit values appropriate? Have the course outlines been reviewed/updated regularly? Are disciplines appropriate? Is faculty development adequate? Does program support State and District emphasis on critical thinking, problem solving and written expression? Where is the program in the SLOA cycle? Are course pre-requisites and co-requisites validated?

e) Class descriptions should be reviewed and updated as needed.				Impact					
Action/Activities	Target Date	Person Responsible	Status	FNIC	Facilities	Soft-ware	Equip-ment	Other Personnel	Other
Being undertaken at the same time as SLOs (see QUALITY, Section b).	2009	Hathaway	I						

f) Continue to insure that Earth Science faculty has access to post information on class websites.				Impact					
Action/Activities	Target Date	Person Responsible	Status	FNIC	Facilities	Soft-ware	Equip-ment	Other Personnel	Other
Made more difficult with loss of free faculty html. Newer method is cumbersome. Have not used a web page in three years because of it. Consider hosting a training session on the use of the new campus platform.	N/A	Rabito	P		X	X	X	X	

QUALITY: Are lec/lab unit values appropriate? Have the course outlines been reviewed/updated regularly? Are disciplines appropriate? Is faculty development adequate? Does program support State and District emphasis on critical thinking, problem solving and written expression? Where is the program in the SLOA cycle? Are course pre-requisites and co-requisites validated?

g) Insure, through TeCS, that software used in lecture halls is loaded properly and functions correctly on a consistent basis.				Impact					
Action/Activities	Target Date	Person Responsible	Status	FNIC	Facilities	Soft-ware	Equip-ment	Other Personnel	Other
Complete and currently ongoing.	—	TecS	C						

FEASIBILITY: Are facilities, equipment, and library resources adequate? Are evening programs and services adequate? Are course offerings frequent enough for students to make adequate progress in both day and evening programs? Does the program have adequate communication with & support from Counseling?

a) Consider hiring a dedicated Geology laboratory tech and stockroom assistant.				Impact					
Action/Activities	Target Date	Person Responsible	Status	FNIC	Facilities	Soft-ware	Equip-ment	Other Personnel	Other
No action taken. Additional discussion is warranted.	Sp 10	Administration	P	X				X	
b) Consider hiring qualified faculty to meet current, and potential, program demands. Current Earth Science faculty WSCH is much higher than science department(s) averages; and increased class offerings for transfer purposes and lifelong learning demands (see Mission Recommendations) will make additional qualified instructors necessary also.				Impact					
Action/Activities	Target Date	Person Responsible	Status	FNIC	Facilities	Soft-ware	Equip-ment	Other Personnel	Other
No action taken, Dr. Hathaway's WSCH still at the highest levels within Physical (and Life) sciences. Consider FNIC request in Fall 2009 for hire beginning Fall 2010.	Fa 09	Administration	P	X				X	

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FEASIBILITY: Are facilities, equipment, and library resources adequate? Are evening programs and services adequate? Are course offerings frequent enough for students to make adequate progress in both day and evening programs? Does the program have adequate communication with & support from Counseling?

c) Consider acquiring vehicles suitable for natural sciences field trips (i.e., suitable suspensions, clearance, and driving range). Develop a pool of responsible science students as qualified drivers and compensate them appropriately. Consider other innovative options to meet transportation needs.	Impact									
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Action/Activities	Target Date	Person Responsible	Status	FNIC	Facilities	Soft-ware	Equip-ment	Other Personnel	Other
No action taken. The lack of adequate and safe transportation remains a considerable problem to academically sound field trips.	Sp 10	Rabito/Hathaway	P		X		X	X	

d) Consider installing multiple computer stations with internet and printing capabilities in geology laboratories.	Impact									
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Action/Activities	Target Date	Person Responsible	Status	FNIC	Facilities	Soft-ware	Equip-ment	Other Personnel	Other
Completed with laptops. A selection of Earth Science software needs to be purchased and loaded.	—		C						

FEASIBILITY: Are facilities, equipment, and library resources adequate? Are evening programs and services adequate? Are course offerings frequent enough for students to make adequate progress in both day and evening programs? Does the program have adequate communication with & support from Counseling?

e) Consider increasing the number of Physical Geology sections taught to ensure an adequate base of students from which to draw to adequately fill higher level (Historical Geology and Mineralogy) Earth Science courses.				Impact					
Action/Activities	Target Date	Person Responsible	Status	FNIC	Facilities	Soft-ware	Equip-ment	Other Personnel	Other
Completed and ongoing. Thank you!	—	Rabito	C						

COMPLIANCE: Do course requisites meet Federal, State & District requirements? Do the course outlines meet state, district & federal regulations for content? Do vocational programs have regular advisory meetings?

a) Update Course Outlines of Record to reflect Student Learning Outcomes language, and develop processes to accurately track SLO assessment within specific classes.				Impact					
Action/Activities	Target Date	Person Responsible	Status	FNIC	Facilities	Soft-ware	Equip-ment	Other Personnel	Other
Partially completed, but need to consult with other faculty on assessment. Suggest implementing first SLO assessment in Spring 2009.	2009	Hathaway	I						

b) Faculty instructing Earth Science courses should meet required California minimum qualifications in Earth Science. Consider whether instructors of current cross-discipline courses, or potential cross-discipline courses, with a <u>major</u> Earth Science component should also meet required California minimum qualifications in Earth Science or the courses should be team-taught.				Impact					
Action/Activities	Target Date	Person Responsible	Status	FNIC	Facilities	Soft-ware	Equip-ment	Other Personnel	Other
Completed and ongoing. Thank you!	—	Rabito y	C						

COMPLIANCE: Do course requisites meet Federal, State & District requirements? Do the course outlines meet state, district & federal regulations for content? Do vocational programs have regular advisory meetings?

c) Ensure that any (adjunct or full-time) faculty instructing geography courses meet minimum California qualifications.				Impact					
Action/Activities	Target Date	Person Responsible	Status	FNIC	Facilities	Soft-ware	Equip-ment	Other Personnel	Other
Completed and ongoing. Thank you!	—	Rabito y	C						