

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

Action/Activities				Target Date	Person Responsible	Status	FNIC	Facilities	Soft-ware	Equip-ment	Other Personnel	Other
a) Course outlines of record for all Chemistry courses are being revised and targeted to have all courses updated to include student learning outcomes language by the end of the Fall Semester 2006.				Impact								
All course SLO's complete, with the exception of Chem 112. Chem 112 SLO's are scheduled for completion in Spring 09.				Sp 09	Miles	I						
b) Organic Chemistry should be revised to a 5 unit course with 3 hours lecture, 1 hour of discussion, and 3 hours of laboratory.				Impact								
Action/Activities				Target Date	Person Responsible	Status	FNIC	Facilities	Soft-ware	Equip-ment	Other Personnel	Other
N/A												

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

c) Revise the description of Chem 103 & 104; “College Chemistry” to “Allied Health” or “Life Science Chemistry”.				<b>Impact</b>					
Action/Activities	Target Date	Person Responsible	Status	FNIC	Facilities	Soft-ware	Equip-ment	Other Personnel	Other

d) Evaluate nursing or allied-health chemistry for appropriate pre-requisites and the impact of changing to a 5-unit combined Chem 103/104 course.				<b>Impact</b>					
Action/Activities	Target Date	Person Responsible	Status	FNIC	Facilities	Soft-ware	Equip-ment	Other Personnel	Other
Evaluation for pre-requisites has been completed. The department would like to keep Chem 103 and Chem 104 as separate courses.									

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

a) Web pages for the discipline should be upgraded and “hit counters” should be employed to determine the degree to which they are accessed.	<b>Impact</b>								
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Action/Activities	Target Date	Person Responsible	Status	FNIC	Facilities	Soft-ware	Equip-ment	Other Personnel	Other
Web pages have been upgraded. Hit counters have not been added.									

b) Chemistry faculty should determine if there is a way to restrict access to the success in science course so that it serves its intended purpose as a safety net for students struggling in introductory science courses?	<b>Impact</b>								
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Action/Activities	Target Date	Person Responsible	Status	FNIC	Facilities	Soft-ware	Equip-ment	Other Personnel	Other
Course has been deleted from catalog.									


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

c) Evaluate the impact of the Chem/Phys 106 offerings on enrollments in Chem 110 .				Impact					
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Action/Activities	Target Date	Person Responsible	Status	FNIC	Facilities	Soft-ware	Equip-ment	Other Personnel	Other
Chemistry 106 has not had an impact on Chem 110 enrollment.									

d) Continue to develop web pages for classes and specific instructors. It would be helpful to have more district support for web page design and maintenance. There is a large need to have "hit counters" something that MIS has said would be difficult to provide under our current structure.				Impact					
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Action/Activities	Target Date	Person Responsible	Status	FNIC	Facilities	Soft-ware	Equip-ment	Other Personnel	Other
Need to continue dialogue with MIS about the use of hit counters on web pages	Sp 09	Rabito							


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

e) Need tracking information on Citrus graduates in order to follow their progress.				Impact					
Action/Activities	Target Date	Person Responsible	Status	FNIC	Facilities	Soft-ware	Equip-ment	Other Personnel	Other
The Chemistry Department currently does not have access to information regarding students once they transfer. Such information is needed by the faculty in order to allow them to evaluate course curriculum.	?	?							
The department should contact the campus researcher to inquire as to whether or not this recommendation can be achieved.	Sp 09	Rabito							
f) Need to develop a security system for record keeping insuring integrity of student work.				Impact					

Action/Activities	Target Date	Person Responsible	Status	FNIC	Facilities	Soft-ware	Equip-ment	Other Personnel	Other

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

g) Should evaluate the possibility of offering a summer GATE program for area elementary districts.	Impact								
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Action/Activities	Target Date	Person Responsible	Status	FNIC	Facilities	Soft-ware	Equip-ment	Other Personnel	Other

h) Should Citrus consider hosting a science fair for area high schools similar to successful programs like that at Fullerton College?	Impact								
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Action/Activities	Target Date	Person Responsible	Status	FNIC	Facilities	Soft-ware	Equip-ment	Other Personnel	Other
The Department has hosted a local Science Fair for Sellers Elementary school, but has not expanded to the high school.									

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

i) Work with the counseling staff to develop academic “roadmaps” for students who will major in some aspect of science. Attend counseling department meetings in order to ensure that the counseling staff fully understands the appropriateness of specific chemistry courses for selected students.				Impact					
Action/Activities	Target Date	Person Responsible	Status	FNIC	Facilities	Soft-ware	Equip-ment	Other Personnel	Other
Chemistry faculty will continue to have discussions with Counseling faculty regarding this issue.	Sp 10	Department							

j) Consider using Chemistry 100 as a vehicle to focus a discussion among science faculty about the need for some minimal math competency for any general education science course.				Impact					
Action/Activities	Target Date	Person Responsible	Status	FNIC	Facilities	Soft-ware	Equip-ment	Other Personnel	Other

k) Evaluate grant opportunities that might provide opportunities for program enhancement or that can serve as a means to provide outreach to our educational partners.				Impact					
Action/Activities	Target Date	Person Responsible	Status	FNIC	Facilities	Soft-ware	Equip-ment	Other Personnel	Other

**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?

Action/Activities				Target Date	Person Responsible	Status	Impact					
Action/Activities				Target Date	Person Responsible	Status	FNIC	Facilities	Soft-ware	Equip-ment	Other Personnel	Other
a) Consider restricting software access to campus-only computer labs in order to improve the effectiveness of arranged hours for chemistry courses. [ <b>Recommendation—improve effectiveness-- 1998-99</b> ]												
Hours arranged have now been incorporated into assigned laboratory classroom time.												
b) Increase the awareness of other Community Colleges and their programs. [ <b>Recommendation 1998-99</b> ] Plans are underway to have a fall 2005 meeting for area community college chemistry faculty.							Impact					
Action/Activities				Target Date	Person Responsible	Status	FNIC	Facilities	Soft-ware	Equip-ment	Other Personnel	Other
Initial dialogue has been established. The department will initiate discussions with the surrounding community colleges.				Sp 10	Rabito							

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**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) Make the ACS exam a more significant part of the final exam in Chemistry 110, 111, and 112				Impact					
Action/Activities	Target Date	Person Responsible	Status	FNIC	Facilities	Soft-ware	Equip-ment	Other Personnel	Other

d) Reevaluate the ACS general chemistry format and possibly incorporate it into our program.				Impact					
Action/Activities	Target Date	Person Responsible	Status	FNIC	Facilities	Soft-ware	Equip-ment	Other Personnel	Other

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**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) Evaluate the need for mathematics prerequisites for Chemistry 103 and 104 (Nursing Chemistry) and whether a combined 103/104 class would serve student needs or limit their options.	<b>Impact</b>								
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Action/Activities	Target Date	Person Responsible	Status	FNIC	Facilities	Soft-ware	Equip-ment	Other Personnel	Other

f) Increase collaboration with the chemistry faculty from area CSU campuses.	<b>Impact</b>								
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Action/Activities	Target Date	Person Responsible	Status	FNIC	Facilities	Soft-ware	Equip-ment	Other Personnel	Other
The STEM Program has opened up opportunities with the University of La Verne, APU and Cal State Fullerton in regard to this recommendation. Chemistry/Physics 106 has been successfully articulated. The department will continue to pursue collaboration with 4 year transfer institutions.	Sp 10	Department							


**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) Complete the addition of student learning outcome assessment language to all chemistry courses.				Impact					
Action/Activities	Target Date	Person Responsible	Status	FNIC	Facilities	Soft-ware	Equip-ment	Other Personnel	Other
All courses in curriculum except chem. 112 have been updated to include SLO assessment language in their credit course outlines.	Sp 09	Miles							

h) Develop a plan to test the effectiveness of student interactive devices (“clickers”) in chemistry lecture courses.				Impact					
Action/Activities	Target Date	Person Responsible	Status	FNIC	Facilities	Soft-ware	Equip-ment	Other Personnel	Other
Clickers have not yet been implemented in classroom. Dialogue between publishers and	Sp 10	Ryba							

Department will continue to address feasibility.									

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i) Be proactive in obtaining student internships from JPL.				Impact					
Action/Activities	Target Date	Person Responsible	Status	FNIC	Facilities	Soft-ware	Equip-ment	Other Personnel	Other

j) Devise a plan for updating Course Outlines of Record in a timely fashion to keep the information on textbooks and the student learning outcomes expectations current.				Impact					
Action/Activities	Target Date	Person Responsible	Status	FNIC	Facilities	Soft-ware	Equip-ment	Other Personnel	Other

All courses in curriculum except chem. 112 have been updated to include SLO assessment language in their credit course outlines.	Sp 09	Miles							

**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) Reevaluate safety features for labs and stockroom (i.e. showers, doors) and air turnover rates and develop consistent guidelines for safety procedures in the laboratory.				Impact					
Action/Activities	Target Date	Person Responsible	Status	FNIC	Facilities	Soft-ware	Equip-ment	Other Personnel	Other
Continue dialogue with Facilities regarding fume hood efficiency.									

b)				Impact					
Action/Activities	Target Date	Person Responsible	Status	FNIC	Facilities	Soft-ware	Equip-ment	Other Personnel	Other

**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) none				Impact					
Action/Activities	Target Date	Person Responsible	Status	FNIC	Facilities	Soft-ware	Equip-ment	Other Personnel	Other

b) none				Impact					
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Action/Activities	Target Date	Person Responsible	Status	FNIC	Facilities	Software	Equipment	Other Personnel	Other