

ANNUAL PROGRAM REVIEW SUMMARY for Chemistry 04-05 Full Review Due: 2010-2011

MISSION: Does program meet the District's mission and established core competencies? Does program reflect the District's diversity?	Status					
	05-06	06-07	07-08	08-09	09-10	10-11
<b>Current Recommendations</b>						
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.				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.				N/A		
c) Revise the description of Chem 103 & 104; "College Chemistry" to "Allied Health" or "Life Science Chemistry".				N/A		
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.				C		
<b>New Recommendations</b>						
a) Organic Chemistry should be revised to include a three unit lecture, a two unit lab as separate courses. The laboratory portion of the class should include three hours of lab and one hour of discussion.						

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NEED: How is program addressing needs based on labor market data, enrollment, articulation, advisory committee, regional agreements, etc.?	Status					
	05-06	06-07	07-08	08-09	09-10	10-11
Current Recommendations						
a) Web pages for the discipline should be upgraded and "hit counters" should be employed to determine the degree to which they are accessed.				C		
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?				N/A		
c) Evaluate the impact of the Chem/Phys 106 offerings on enrollments in Chem 110.				C		
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.				I		
e) Need tracking information on Citrus graduates in order to follow their progress.				P		
f) Need to develop a security system for record keeping insuring integrity of student work.				C		
g) Should evaluate the possibility of offering a summer GATE program for area elementary districts.				C		
h) Should Citrus consider hosting a science fair for area high schools similar to successful programs like that at Fullerton College?				I		
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				I		

Status key: C: Completed I: Incomplete N/A: No longer applicable P: Pending (not yet undertaken)

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students.						
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.				N/A		
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.				C		
New Recommendations						

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<p><b>QUALITY:</b> 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? Does program meet stated objectives in the form of SLOs? Are course pre-requisites and co-requisites validated?</p>	Status					
	05-06	06-07	07-08	08-09	09-10	10-11
<b>Current Recommendations</b>						
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>				N/A		
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.				I		
c) Make the ACS exam a more significant part of the final exam in Chemistry 110, 111, and 112.				C		
d) Evaluate the ACS general chemistry format and possibly incorporate it into our program.				N/A		
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.				C		
f) Increase collaboration with the chemistry faculty from area CSU campuses.				I		
g) Complete the addition of student learning outcome assessment language to all chemistry courses.				I		
h) Develop a plan to test the effectiveness of student interactive devices ("clickers") in chemistry lecture courses.				I		

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i) Be proactive in obtaining student internships from JPL.				C		
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.				I		
<b>New Recommendations</b>						
a) Consider the purchase of a gas chromatograph instrument for Organic Chemistry.						
b) Consider securing funds for computer and Data Studio hardware for Chem 111 (PS 210).						
c) Consider purchase of IR/NMR tutorial software for Organic Chemistry.						

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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?	Status					
	05-06	06-07	07-08	08-09	09-10	10-11
<b>Current Recommendations</b>						
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.				I		
<b>New Recommendations</b>						
a) Continue dialogue with Facilities regarding fume hood efficiency.						
b) Invest in installation of medical kits in each laboratory room.						
c) Consider purchase of FTIR spectrophotometer for department use.						
d) Evaluate the possibility of lab room expansion to meet the student demand needs.						

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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?	Status					
	05-06	06-07	07-08	08-09	09-10	10-11
Current Recommendations						
none						
New Recommendations						

PROGRAM SLOs	Cycle Stage					
	05-06	06-07	07-08	08-09	09-10	10-11
1. Communication						
a)						
b)						
c)						
2. Computation						
a)						
b)						
c)						
3. Communication						
a)						
b)						
c)						
4. Computation						
a)						
b)						
c)						