

MISSION: Does program meet the District’s mission and established core competencies? Does program reflect the District’s diversity?	Status					
	07-08	08-09	09-10	10-11	11-12	12-13
<b>Current Recommendations</b>						
a) Complete the revision of all physics course outlines to better reflect student learning outcomes according to the timeline		P				
b) Faculty should continue to research industrial needs for education in emerging technologies (e.g. nanotechnologies) and consider courses to address new career paths		N/A				
c) Consider offering Physics 105 Summer '08		N/A				
d) Faculty should increase participation in activities with local high schools to stimulate physics enrollment		C				
e) The department should consider developing a new honors course, possibly for Physics 110		P				
f) he physics courses are populated by a large number of Asians relative to the general ethnic background of Citrus College students. The Department should consider investigating similar trends in nearby community colleges		P				
<b>New Recommendations</b>						
a) Compare program demographics to published demographic data available from the American Physical Society.						

ANNUAL PROGRAM REVIEW SUMMARY for PHYSICS 06-07

Full Review Due: 12-13

NEED: How is program addressing needs based on labor market data, enrollment, articulation, advisory committee, regional agreements, etc.?	Status					
	07-08	08-09	09-10	10-11	11-12	12-13
Current Recommendations						
a) Expose students to science and engineering employment opportunities		C				
b) Continue to develop web pages for the program, classes and specific instructors		C				
c) Offer the new Physics 110 hybrid distance education course in fall '07		N/A				
d) Consider additional Distance Education offerings. Explore the feasibility of developing a DE course for Physics 111 and 112		N/A				
e) Evaluate the need to re-design Physics 111 and 112 as a physics for biology majors course with or without calculus		C				
New Recommendations						

<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?	Status					
	07-08	08-09	09-10	10-11	11-12	12-13
<b>Current Recommendations</b>						
a) Complete the revision of physics course outlines to better reflect student learning outcomes according to plan		I				
b) Labs should continue to maintain state-of-the-art equipment		N/A				
c) Faculty should continue regular contact with peers at other institutions		N/A				
<b>New Recommendations</b>						
a) Program faculty should communicate with Physics faculty at transfer institutions (i.e. APU, ULV, Cal. State Fullerton) to compare curriculum.						

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					
	07-08	08-09	09-10	10-11	11-12	12-13
<b>Current Recommendations</b>						
a) Faculty members should research grants funding for program development in emerging technologies such as nanotechnologies		N/A				
b) Determine need for equipment in the area of electricity, magnetism and modern physics that does not deal with circuit theory		C				
c) Incorporate self-correcting computer tutorials such as Mastering Physics into the Physics 202 and 203 discussion sections		P				
d) Despite repeated maintenance requests, air balance and temperature are still not maintained adequately in the PS building. PS 101 is sometimes below 60 degrees at class time and PS 113 does not receive adequate ventilation. A/C ducting should be cleaned of soot		C				
e) Utilize basement area (behind PS113 and PS107) to store frequently used lecture demonstration equipment		I				
f) Determine the best utilization of PS121. Consider renovating for use as a seminar/conference room		I				
<b>New Recommendations</b>						
a) Physics 110 requires new Pasco hardware.						
b) Physics 202 requires new cathode ray tube equipment.						
c) Physics 202 and 203 required the purchase of large solenoids for magnetic field experiments.						
d) Return Physics Laboratory Technician to 100% assignment in Physical Sciences.						

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					
	07-08	08-09	09-10	10-11	11-12	12-13
Current Recommendations						
a) Review safety features on natural gas shutoffs in lab rooms		I				
b) Install first aid kits in lab rooms		I				
New Recommendations						

PROGRAM SLOs	Cycle Stage					
	07-08	08-09	09-10	10-11	11-12	12-13
<b>1. Communication</b>						
Physics students will use proper vocabulary and notation when describing physics concepts. They will be able to communicate these concepts to others both verbally and in written form. They will be able to critically analyze scientific information found in print, visual or online media such as scientific and non-scientific books, journals, articles, web pages, television and film.		w				
<b>2. Computation</b>						
Physics students will apply physics concepts in mathematical form using the appropriate computational skills for the course. This may include numeric calculation using simple algebra, graphical analysis and/or the evaluation of calculus expressions.		w				
<b>3. Creative, Critical and Analytical Thinking</b>						
Physics students will develop an understanding of, and curiosity toward, the physical world. Students will develop problem-solving and decision-making skills. Students will apply critical thinking skills to develop an understanding of interactions in the physical world.		w				
<b>4. Community, Global Consciousness</b>						
Students will think logically and coherently about technical/scientific issues and gain an appreciation for the global social and political impact of scientific endeavors. By working together in lab and/or on projects, students develop interpersonal skills and respect for others.		W				
<b>5. Technology Information</b>						

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Full Review Due: 12-13

<p>Physics students will be adept at using computers for word processing, data analysis, tutorials, simulations and/or web-based research as appropriate for each course. For laboratory courses, students will demonstrate fundamental aptitudes in the proper use of mechanical and/or electrical devices.</p>						
<p>6. Discipline Specific Content</p>						
<p>Physics students will demonstrate an understanding of the fundamental principles of physics. Students will distinguish between scientific and non-scientific questions and methods and understand science as a process. Students will understand the complex problems involved in real science and engineering.</p>		<p>W</p>				