Approved May 10, 2007

A. NAME OF DOCKET ITEM

Consideration and approval of new or revised courses.

B. STATEMENT OF ISSUE/PURPOSE

1. Background and Purpose

The following curriculum changes are proposed:

Aviation	Adoption of a course deactivation at Miramar College	Attachment A
Geographic Information Systems	Adoption of a new course at City and Mesa College.	Attachment B
Hotel Management	Adoption of a course deactivation at Mesa College	Attachment C
Manufacturing Engineering Technology	Adoption of a new course at City College.	Attachment D
Physics	Adoption of two course deactivations at City College.	Attachment E
Physics	Adoption of ten course deactivations at City, Mesa and Miramar Colleges.	Attachment F1-F2

2. Cost and Funding

There is no additional cost to the District.

C. PROPOSAL

The Board of Trustees hereby approves the action outlined in Part A of this docket exhibit.

Henry T. Ingle, Ph.D.
Vice Chancellor
Instructional Services, Planning and Technology

ACTION

Adoption of a course deactivation at Miramar College.

Proposed course deactivation at Miramar College:

210 Instrument Rating Instruction
3 hours lecture, 3 units
Grade Only

Advisory: Aviation 140 with a grade of "C" or better, or equivalent; Private Pilot Certificate satisfies the Aviation 140 advisory; English 51 and English 56 and Mathematics 032, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels W5, R5 and M20.
This course provides aeronautical knowledge for the Instrument Rating. Students learn about applicable Federal Aviation Regulations, basic instrument flight, electronic aids to navigation, the National Airspace System, navigation charts, air traffic control procedures, Instrument Flight Rules (IFR) flight procedures, and flight planning. This course in conjunction with AVIA 130 prepares students for the Federal Aviation Administration (FAA) Instrument Rating written examination. (FT) Associate Degree Credit & transfer to CSU and/or private colleges and universities

ACTION

Adoption of a new course at City and Mesa College.

Proposed course at City and Mesa College:

104 Geographic Information Science and Spatial Reasoning
2.50 hours lecture, 1.50 hours lab, 3.00 units
Grade Only

Prerequisite: Mathematics 96 with a grade of "C" or better, or equivalent, or Assessment Skill Level M50. Required for articulation by a UC/CSU institution.
This is a survey course designed to provide an introductory overview of geographic information systems (GIS), cartography, remote sensing, spatial analysis, and global positioning systems (GPS). Students will learn how these critical technologies are used in addressing human and environmental problems. The lectures and lab exercises will provide an introductory knowledge of GIS including map interpretation, georeferencing, and spatial data management. Topics will include how to use spatial data to visualize information and identify spatial patterns. Topics include basic GIS concepts such as query and map overlay. (FT) Associate Degree Credit & transfer to CSU and/or private colleges and universities.

ACTION

Adoption of a course deactivation at Mesa College.

Proposed course deactivation at Mesa College:

105 Hotel-Motel Front Office Procedures
2.00 hours lecture, 3.00 hours lab, 3.00 units
Grade Only

A beginning class covering the essential routines, behind the hotel desk and the duties of the front office clerk, including operation of room rack, selling of rooms, correspondence regarding reservations and inquiries, credit and check cashing. Business ethics and general problems concerning relations with the public are stressed. (FT) Associate Degree Credit & transfer to CSU and/or private colleges and universities.

ACTION

Adoption of a new course at City College.

Proposed course at City College:

270 Work Experience
1- 4 units, 1 hour other
Letter Grade or Credit/No Credit Option
Limitation on Enrollment: Must obtain an Add Code from Work Experience Coordinator for enrollment. To receive credit a student must complete a minimum of seven units during the semester, including work experience.
A program of on-the-job learning experiences for students employed in a job related to their major. The combined maximum credit for all work experience courses from all disciplines may not exceed 16 units. Associate Degree Credit & transfer to CSU and/or private colleges and universities.

ACTION

Adoption of two course deactivations at City College.

Proposed course deactivations at City College:

120A General Physics I
3 hours lecture, 3 units
Letter Grade or Credit/No Credit Option
Corequisite: Physics 125A; Completion of or concurrent enrollment in Mathematics 121 with a grade of "C" or better, or equivalent.
Limitation on Enrollment: This course is not open to students with previous credit for or concurrent enrollment in Physics 124A.
This course is an introductory survey of the concepts and principles of physics. Emphasis is placed on developing an understanding of the properties of matter, mechanics, heat and sound in order to make calculations and solve fundamental physics problems. (FT) Associate Degree Credit & transfer to CSU and/or private colleges and universities, CSU General Education, IGETC and UC Transfer Course List. **CAN DATA:** CAN PHYS 2 (City) CAN PHYS SEQ A (City)

120B General Physics II
3 hours lecture, 3 units
Letter Grade or Credit/No Credit Option
Prerequisite: Physics 120A with a grade of "C" or better, or equivalent.
Corequisite: Physics 125B.
Limitation on Enrollment: This course is not open to students with previous credit for or concurrent enrollment in Physics 124B.
This course is an introductory survey of the concepts and principles of physics. Emphasis is placed on developing an understanding of the properties of electricity, magnetism, light and modern physics in order to make calculations and solve fundamental physics problems. (FT) Associate Degree Credit & transfer to CSU and/or private colleges and universities, CSU General Education, IGETC, and UC Transfer Course List. **CAN DATA:** CAN PHYS 4 (City) CAN PHYS SEQ A (City).

ACTION

Adoption of ten course deactivations at City, Mesa and Miramar College.

Proposed course deactivations at City, Mesa and Miramar College:

124A General Physics
3 hours lecture, 3 hours lab, 4 units
Letter Grade or Credit/No Credit Option
Prerequisite: Mathematics 96 with a grade of "C" or better, or equivalent or Assessment Skill Level M50.
Corequisite: Physics 125A.
Limitation on Enrollment: This course is not open to students with previous credit for Physics 120A or 121A.
This course is an introductory survey of the concepts and principles of physics. Emphasis is placed on developing an understanding of the properties of matter, mechanics, heat and sound. This course is intended for students taking liberal arts and/or pre-professional courses that do not require Physics with calculus. (FT) Associate Degree Credit & transfer to CSU and/or private colleges and universities, CSU General Education, IGETC and UC Transfer Course List. **CAN DATA:** CAN PHYS 2 (Mesa).

124B General Physics
3 hours lecture, 3 hours lab, 4 units
Letter Grade or Credit/No Credit Option
Prerequisite: Physics 124A with a grade of "C" or better, or equivalent.
Corequisite: Physics 125B.
Limitation on Enrollment: This course is not open to students with previous credit for Physics 120B or 121B.
This course is the second in a two-part, introductory survey of the concepts and principles of physics. Major topics are electricity, magnetism, light and modern physics. This course is intended for students taking liberal arts and/or pre-professional courses that do not require Physics with calculus. (FT) Associate Degree Credit & transfer to CSU and/or private colleges and universities, CSU General Education, IGETC and UC Transfer Course List. **CAN DATA:** CAN PHYS 4 (Mesa)

125A Problem Solving for General Physics
1 hour lecture, 1 unit
Letter Grade or Credit/No Credit Option
Prerequisite: Mathematics 96 with a grade of "C" or better, or equivalent or Assessment Skill Level M50.
Corequisite: Physics 120A or 124A.
Small group discussions of physics problems and problem solving methods. Associate Degree Credit & transfer to CSU and/or private colleges and universities.

125B Problem Solving for General Physics
1 hour lecture, 1 unit
Letter Grade or Credit/No Credit Option
Prerequisite: Physics 124A with a grade of "C" or better, or equivalent.
Corequisite: Physics 120B or 124B.
Small group discussions of physics problems and problem solving methods. Associate Degree Credit & transfer to CSU and/or private colleges and universities.

195A Mechanics
3 hours lecture, 3 hours lab, 4 units
Letter Grade or Credit/No Credit Option
Prerequisite: Mathematics 150 with a grade of "C" or better, or equivalent.
Corequisite: Physics 196A; Completion of or concurrent enrollment in Mathematics 151 with a grade of "C" or better, or equivalent.
Advisory: English 51 and English 56, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels W5 and R5.
The Physics 195A, B, C sequence is designed to give a foundation in calculus-based physics for engineering and science majors. Physics 195A deals primarily with the description of motion and its causes, and energy transfer processes. Associate Degree Credit & transfer to CSU and/or private colleges and universities, CSU General Education, IGETC, and UC Transfer Course List. **CAN DATA:** CAN PHYS 8 (City, Mesa) CAN PHYS SEQ B (City, Mesa)

195B Electricity and Magnetism
3 hours lecture, 3 hours lab, 4 units
Grade Only
Prerequisite: Physics 195A with a grade of "C" or better, or equivalent.
Corequisite: Physics 196B.
This is the second of a three-semester calculus-based general physics sequence, intended to satisfy the transfer requirements of students planning to major in the physical sciences and in engineering. The topics of study include the basic principles and applications of electrostatics, magnetostatics, time-varying electric and magnetic phenomena, direct and alternating current circuits, elementary electronics and electromagnetic waves. Emphasis is placed on the mathematical analysis of physical problems. Associate Degree Credit & transfer to CSU and/or private colleges and universities, CSU General Education, IGETC, and UC Transfer Course List. **CAN DATA:** CAN PHYS 12 (City, Mesa) CAN PHYS SEQ B (City, Mesa)

195C Waves, Light, and Modern Physics
3 hours lecture, 3 hours lab, 4 units
Letter Grade or Credit/No Credit Option
Prerequisite: Physics 195A with a grade of "C" or better, or equivalent.
Corequisite: Physics 196C.
The fundamental principles of physics in the areas of waves, the behavior of light, and an introduction to quantum physics and the atomic and nuclear properties of matter. Physics 195B and 195C may be taken concurrently only if Physics 195A was completed with a grade of "B" or better or with approval of department. Associate Degree Credit & transfer to CSU and/or private colleges and universities, CSU General Education, IGETC, and UC Transfer Course List. **CAN DATA:** CAN PHYS SEQ B (City, Mesa) CAN PHYS 14 (City, Mesa)

196A Problems in Mechanics
1 hour lecture, 1 unit
Letter Grade or Credit/No Credit Option
Corequisite: Physics 195A.
Advisory: Mathematics 150 with a grade of "C" or better, or equivalent; English 51 and English 56, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels W5 and R5.
Small group discussions of problem-solving methods in physics. Associate Degree Credit & transfer to CSU and/or private colleges and universities.

196B Problems in Electricity and Magnetism
1 hour lecture, 1 unit
Letter Grade or Credit/No Credit Option

Prerequisite: Physics 195A with a grade of "C" or better, or equivalent.
Corequisite: Physics 195B.
The emphasis of this course is on small group discussions of problem-solving methods in electricity and magnetism. Associate Degree Credit & transfer to CSU and/or private colleges and universities.

196C Problems in Light & Modern Physics
1 hour lecture, 1 unit
Letter Grade or Credit/No Credit Option
Corequisite: Physics 195C
Small group discussions of problem-solving methods in physics. Associate Degree Credit & transfer to CSU and/or private colleges and universities.