

Approved 05/08/08

A. NAME OF AGENDA ITEM

Consideration and approval of new or revised courses and programs.

B. STATEMENT OF ISSUE/PURPOSE

1. Background and Purpose

Sections 55002, 55130 and 55150 of Title 5 requires the local district governing board approve degree-applicable credit courses, nondegree-applicable credit courses, noncredit courses, community services offerings, and credit and noncredit programs.

The following curriculum changes are proposed for the San Diego Community College District for City College, Mesa College, Miramar College or Continuing Education:

Education

Adoption of a new course at City and Mesa College. (**Attachment A**)

Engineering

Adoption of a new course at City and Mesa College. (**Attachment B**)

2. Cost and Funding

There is no additional cost to the District

C. PROPOSAL

The Board of Trustees hereby grants authority to take the action outlined in Part A.

Henry T. Ingle, Ph.D.  
Vice Chancellor  
Instructional Services

ACTION

Adoption of a new course at City and Mesa College.

Proposed course at City and Mesa College:

**150 Advanced Tutor Training**  
**0.5 hours lecture, 1.5 hours lab, 1 unit**  
**Credit/No Credit Only**

*Advisory:* Education 100 and Computer Business Technology 120, each with a grade of "C" or better, or equivalent.

The course is designed to prepare college level persons for tutoring adult/college students in an online environment. Online tutoring methods, use of appropriate written and mediated instructional materials and equipment, and supervised practice tutoring are included in this course. Online tutoring techniques and methodology are emphasized. Laboratory hours are by arrangement with the tutorial center coordinators. 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:

**116 Computational Methods in Engineering**  
**2 hours lecture, 3 hours lab, 3 units**  
**Grade Only**

*Prerequisite:* Mathematics 141 with a grade of "C" or better, or equivalent.

*Corequisite:* *Completion of or concurrent enrollment in:* Mathematics 151 with a grade of "C" or better, or equivalent.

This course introduces students to computational methods and their applications to computer-based problem solving for engineers. Students formulate and solve engineering problems through modeling and the application of numerical methods, then evaluate and rationalize the results using computational engineering software. Topics include functions and arrays, data and file management, and standard library packages and software. This course is designed for students majoring in engineering. (FT)  
Associate Degree Credit & transfer to CSU and/or private colleges and universities.