FOOTHILL COLLEGE
College Curriculum Committee
New Course Proposal

This form should be completed by the faculty author as preparation to writing a new course. Your division CC rep can assist you in completing it appropriately, and will forward it to the Office of Instruction for inclusion as an announcement at the next available CCC meeting. The purpose of this form is ***interdisciplinary communication****. The responsibility to rigorously review and approve new courses remains with the divisional curriculum committees.*

Date Proposal Given to Division CCC Rep:

Proposed Number: C S 41A
Proposed Title: 3-D GRAPHICS PROGRAMMING

Proposed Catalog Description:

This course is an introduction to 3-D graphics programming using OpenGL, intended for CS majors as well as non-majors interested in gaining 3-D expertise for games, scientific visualization, desktop and mobile apps. Coding topics include a systematic study of OpenGL API in conjunction with any of programming languages Java, C++ or Objective C (student's choice). Concept topics include viewports, graphics primitives, 3-D motion matrices, normal vectors, shaders, light simulation, polygons, virtual cameras, pixel buffers, image pipelines, texture mapping and alpha blending.

Proposed Discipline: Computer Science

Comments & Other Relevant Information for Discussion: This course was motivated by a 2012 advisory committee meeting.

Proposed Need/Justification Statement: This course is a restricted support course for the AS Degree in Computer Science. This course is a required core course for the (NEW) Certificate in Mobile Apps Programming (MAP).

To which Degree(s) or Certificate(s) would this course potentially be added? AS Degree in Computer Science, also, a new certificate in Mobile Apps Programming (MAP)

Instruction Office:
Date presented at CCC:
Division: Department:
Number assigned:
Faculty Author: Michael Loceff
Date number assigned/notification: