Program Proposal
Form B

Academic Group (College): Natural Science and Mathematics
Date of Submission to College Dean: 11/01/08

Academic Organization (Department): Physics and Astronomy
Requested Effective: Fall_x___, Spring___, 2009___.

Department Chair: Gary Shoemaker
Contact if not Department Chair: Chris Taylor

Title of the Program: Minor In Astronomy

Type of Program Proposal:

_x__ Modification in Existing Program:
   ___ Substantive Change
   ___ Non-Substantive Change
   ___ Deletion of Existing Program

_____ New Programs
   ___ Initiation (Projection) of New Program on to Master Plan
   ___ New Degree Programs
      ___ Regular Process
      ___ Fast Track Process
      ___ Pilot Process
   ___ New Minor, Concentration, Option, Specialization, Emphasis
   ___ New Certificate Program

PLEASE NOTE: Form B is to be used only as a Cover Form. Additional information is requested for each of the above as noted in the corresponding procedure in the Policies and Procedures for Initiation, Modification, Review and Approval of Courses and Academic Programs found at http://www.csus.edu/acaf/uniymanual/index.htm

Briefly describe the program proposal (new or change) and provide a justification.

Astronomy 4 is a required course in the Astronomy Minor. In a separate submission it is proposed to create Astronomy 4A, 4B, and 4C, covering the topics of Planetary Science; Stars, Galaxies and Cosmology; and Astrobiology; respectively. The proposed change in the Astronomy Minor is to permit any of the three new Astronomy 4ABC courses to fulfill the requirement currently satisfied by Astronomy 4. A change in the Astronomy Minor is required because when the new courses are approved, Astronomy 4 as currently listed in the Catalog will be deleted and only Astronomy 4A, 4B, and 4C will be offered. This proposed program modification does not change the number of units required for completion of the minor, nor does it have a fiscal or programmatic impact on the offerings of any other academic unit.

Approvals:

Department Chair: __________________________ Date: 11/20/05

College Dean: __________________________ Date: 12/9/05

University Committee: __________________________ Date: __________________________

Associate Vice President and Dean
for Academic Affairs: __________________________ Date: __________________________

8/27/07
Proposed Changes:

Itemize Each Change:

1. Delete from required courses: Astr 4
2. Add to required courses: Any one of Astr 4A, 4B, or 4C

NEW PROGRAM

A. Required Courses (12 units)
   Any one of Astr 4A, 4B or 4C
   Astr 4A: Introduction to the Solar System
   Astr 4B: Introduction to Stars, Galaxies and Cosmology
   Astr 4C: Introduction to Astrobiology
   Astr 6: Astronomical Observation Laboratory
   Astr 131: The Solar System and Space Exploration
   Astr 132: Stars, Galaxies and Cosmology
   Astr 199: Special Problems (2 units)

B. Elective Courses (any 6 units from the following)
   Chem 142: Introduction to Physical Chemistry
   CSC 25: Introduction to C Programming
   Geog 107: Remote Sensing
   Geog 113: Climate
   Geog 116: Global Climate Change
   Geol 114: Volcanology
   Geol 170: Geology of the Planets
   Phil 125: Philosophy of Science
   Phsc 107: History of the Physical Sciences
   Phys 136: Electrodynamics of Waves, Radiation and Materials
   Phys 145: Optics
   Phys 162: Computational Physics
   Stat 50: Introduction to Probability and Statistics
   Stat 115A: Introduction to Probability Theory

OLD PROGRAM

A. Required Courses (12 units)
   Astr 4: Introduction to Astronomy
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   ++++++
   Astr 6: Astronomical Observation Laboratory
   Astr 131: The Solar System and Space Exploration
   Astr 132: Stars, Galaxies and Cosmology
   Astr 199: Special Problems (2 units)

B. Elective Courses (any 6 units from the following)
   Chem 142: Introduction to Physical Chemistry
   CSC 25: Introduction to C Programming
   Geog 107: Remote Sensing
   Geog 113: Climate
   Geog 116: Global Climate Change
   Geol 114: Volcanology
   Geol 170: Geology of the Planets
   Phil 125: Philosophy of Science
   Phsc 107: History of the Physical Sciences
   Phys 136: Electrodynamics of Waves, Radiation and Materials
   Phys 145: Optics
   Phys 162: Computational Physics
   Stat 50: Introduction to Probability and Statistics
   Stat 115A: Introduction to Probability Theory