



SACRAMENTO
STATE

Program Proposal Form B



Academic Group (College): Natural Sciences and Mathematics	Date of Submission to College Dean: August 30, 2007
Academic Organization (Department): Physics and Astronomy	Requested Effective: Fall <u>X</u> , Spring __, 2008.
Department Chair: Gary Shoemaker	Contact if not Department Chair: Hossein Partovi
Title of the Program: Astronomy Minor	
Type of Program Proposal: <input checked="" type="checkbox"/> Modification in Existing Program: __ Substantive Change <input checked="" type="checkbox"/> Non-Substantive Change __ Deletion of Existing Program <input type="checkbox"/> 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/univmanual/index.htm	
Briefly describe the program proposal (new or change) and provide a justification. <p>A broader menu of courses will be permitted in place of the existing required courses PHSC 107 and GEOL 170 to fulfill the requirements of the minor. In recent years both of these course have been offered infrequently and this has necessitated increasing intervention by the Chair to approve course substitutions to allow timely matriculation by our students.</p>	
Approvals: Department Chair: <u><i>Gary H. Shoemaker</i></u> Date: <u>9/18/07</u> College Dean: <u><i>Laurel Jefferson</i></u> Date: <u>9/20/07</u> University Committee: _____ Date: _____ Associate Vice President and Dean for Academic Affairs: _____ Date: _____	

Proposed Changes:

Itemize Each Change:

1. Delete courses PHSC 107 and GEOL 170 from the list of required courses and add them to a new elective list of courses, from which 6 units are required.

2. Add the following menu of courses to the existing courses PHSC 107 and GEOL 170 to satisfy the 6 elective units for the requirements of the Astronomy Minor:
 - PHYS 136
 - PHYS 145
 - PHYS 162
 - CHEM 142
 - CSC 025
 - GEOG 107
 - GEOG 113
 - GEOG 116
 - GEOL 114
 - GEOL 170
 - STAT 050
 - STAT 115A
 - PHIL 125

NEW PROGRAM (18 units)

Required Courses (12 units):

- ASTR 004 Introduction to Astronomy (3 units)
- ASTR 006 Astronomical Observation Laboratory (1 unit)
- ASTR 131 Solar System and Space Exploration (3 units)
- ASTR 132 Stars, Galaxies and Cosmology (3 units)
- ASTR 199 Special Problems (2 units)
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Elective Courses (6 units):

- PHSC 107 History of the Physical Sciences (3 units)
- GEOL 170 Geology of the Planets (3 units)
- PHYS 136 Electrodynamics of Waves, Radiation, and Materials (3 units)
- PHYS 145 Optics (3 units)
- PHYS 162 Computational Physics (3 units)
- CHEM 142 Introduction to Physical Chemistry (4 units)

OLD PROGRAM (18 units)

Required Courses (18 units):

- ASTR 004 Introduction to Astronomy (3 units)
- ASTR 006 Astronomical Observation Laboratory (1 unit)
- ASTR 131 Solar System and Space Exploration (3 units)
- ASTR 132 Stars, Galaxies and Cosmology (3 units)
- ASTR 199 Special Problems (2 units)
- PHSC 107 History of the Physical Sciences (3 units)
- GEOL 170 Geology of the Planets (3 units)
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FYI

<p>CSC 025 Introduction to C Programming (3 units) GEOG 107 Remote Sensing (3 units) GEOG 113 Climate (3 units) GEOG 116 Global Climate Change (3 units) GEOL 114 Volcanology (3 units) STAT 050 Introduction to Probability and Statistics (4 units) STAT 115A Introduction to Probability Theory (3 units) PHIL 125 Philosophy of Science (3 units)</p>	
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