Program Proposal
Form B

Academic Group (College): SSIS
Date of Submission to College Dean: 9/02/09

Academic Organization (Department): Environmental Studies
Requested Effective: Fall ___, Spring ___, 2010 ___

Department Chair: Dudley Burton
Contact if not Department Chair:

Title of the Program (Please be specific; indicate minor, undergraduate or graduate degree, etc.):
dergraduate major, B.S.

Type of Program Proposal:

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

___X___ 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/umanual/acad.htm

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

The addition of a B.S. track to our existing B.A. will address a major student complaint—namely, that many of the state and federal agency jobs that they are qualified to apply for require a B.S. rather than a B.A. Otherwise, the change is mainly a shift in emphasis, rather than an entirely new program. This department has always offered its majors an interdisciplinary mix of social-science and science-focused courses, grounded in a strong liberal arts tradition. By adding the B.S., we hope to give an edge to students preparing for careers that require greater depth in the sciences. New courses are proposed that reflect the disciplinary specialities of our science faculty, but these courses will also be electives in the B.A. In fact, the high degree of overlap between the B.S. and B.A. ensures that we will be able to sustain our course offerings reliably into the future, regardless of year-to-year variation in the proportion of students choosing either track. An informal e-mail survey of our recent graduates indicated that virtually all of them were in favor of offering the B.S., and most would have chosen it had it been available.

Approvals:
Department Chair: [Signature] Date: 2 Oct 09
College Dean: [Signature] Date: 11-2-09
University Committee: Date:
Associate Vice President and Dean for Academic Affairs: Date:

09/10/2008
ENVS 163 (3)
ENVS 149 (3)
ENVS 151 (3)
ENVS 130 (3)

Select three of the following:

ENVS 122 (3)
ENVS 171 (3)
ENVS 128 (3)

Select one of the following:

ENVS 187 (1)
Biol 186 (1)

Select one of the following:

ENVS 121 (2)

ENVS 194/195/198/199 (6) (3)
ENVS 190 (3)
ENVS 120 (3)
ENVS 112 (3)
ENVS 111 (3)
Biol 160 (3)

B. Required Upper Division Courses (42-45 units)

ENVS 10, 12, or 110 (3)
Geol 10 or Geog 01 (3)
Econ 1B (3)
Chem 1A (5)
Biol 2 (5)
Biol 1 (5)

A. Required Lower Division Courses (24 units)

Proposed B.5,
Select three of the following:

ENVS 144  (3)
ENVS 158  (3)

GEOL 130  (3)
GEOL 140  (3)
GEOL 127  (3)
APLA 153  (3)
GEOG 118  (3)
GEOG 116  (3)
GEOG 115  (3)
GEOG 113  (3)
GEOG 111  (3)
GEOG 110  (3)
GEOG 107  (3)
GEOG 109  (3)
BIOL 169  (3)
BIOL 168  (3)
BIOL 166  (3)
BIOL 165  (3)
BIOL 164  (3)
BIOL 162  (3)
BIOL 161  (3)
BIOL 157  (3)
BIOL 117  (3)
BIOL 119  (3)
BIOL 113  (3)
BIOL 118  (3)
BIOL 112  (3)
BIOL 103  (3)
yearly in the future. The other basic requirements for the major, common to both tracks, will continue to be offered with the same frequency (except 110, which will be offered slightly more often because we expect more ENVS majors to take it). GE courses will also be offered with the same frequency, except that 2 sections of ENVS 12 will be offered in substitution for ENVS 10*. Projected enrollment numbers for the purposes of comparison were drawn from average past enrollments.

The comparison shows that FTEF with the B.A. only is 4.05; with B.A. and B.S. both it is 4.2. SCUs with the B.A. only are 3823, and with the B.A. and B.S. both they increase slightly to 3881.

We are therefore confident we can sustain both tracks without a substantial increase in FTEF, while continuing to serve the same number of students in our GE courses. However, we must point out that we have recently lost two permanent faculty to retirement—Angus Wright and Mary Brentwood—whose expertise was in the areas of policy, law, and ethics. These faculty also covered ENVS 190, our thesis class for students completing a social-science-based thesis. At present we are offering these courses with the help of part-timers (except 190, which is only taught by ladder faculty), but we believe it imperative—regardless of any program changes—to fulfill our interdisciplinary promise to our students by hiring permanent faculty in the social sciences in the future.

We should also address the question of classroom and laboratory resources. None of the new upper-division science electives that form the basis of the B.S. requires additional lab classroom space above what we have now in Amador 124—and this is by design, since we are skeptical of being able to obtain any additional space. However, we are currently using AMD 124 only for ENVS 121, and in the future, depending on how this class is taught and what its enrollment is, we may want it for ENVS 130.

* assuming ENVS 12 is approved as a GE Area B5 course; if this does not come to pass, we will offer sections of ENVS 10 instead, and ENVS 12 will not be offered.
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<th>Total SCU/YR</th>
<th>Total FTE/FYR</th>
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<tr>
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