


**PROPOSAL TO CHANGE THE MASTER PLAN
(SHORT FORM)**

Proposed Name of Degree: MINOR IN BIOLOGY
Proposed Year of Implementation: Fall, 2002
Options/ Emphases in the Degree: _____
Faculty Proposing New Program: Ching-Hua Wang

Review and Approval:

1. Curriculum Committee Approval:

Curriculum Chair:  Date: 11/16/01

2. Academic Senate Approval:

Chair, Academic Senate: _____ Date: _____

3. Administration Approval:

President (or designee): _____ Date: _____

PROPOSAL TO OFFER A MINOR IN FALL 2002

Proposed Name of Minor: Minor in Biology
Faculty Proposing Minor: Ching-Hua Wang

1. Catalog Description:

Biology is the study of life, its variety and processes. It emphasizes the relationship between structure and function in living systems and their interactions with the environment. The discipline is dynamic and rapidly advancing with the development of biotechnology and information technology. The major in biological sciences is designed for students who wish to enter graduate or health professional schools, the teacher credential program, or to seek careers in science education, business, industry or government. The minor will allow students in other majors to get a solid background in biology with further room to explore in-depth knowledge in a selected area. The Biology Program provides its students with a strong theoretical foundation in biology, combined with extensive, hands-on laboratory experiences using state-of-the-art technology. Students take a series of core courses augmented by upper-division electives selected from areas of special interest.

REQUIREMENTS FOR MINOR IN BIOLOGY (21 units):

LOWER DIVISION REQUIREMENTS (8 units):

- 1. Biology
 - BIOL 200 Principles of Organismal and Population Biology .. 4
 - BIOL 201 Principles of Cell and Molecular Biology 4

UPPER DIVISION REQUIREMENTS (13 units):

- 1. BIOL 300 Cell Physiology..... 4
- BIOL 302 Genetics and Evolution 3
- 2. Biology Electives
 - A minimum of 6 units of 300-400 level biology courses,
with no more than one course selected from BIOL 331-333, 340,
410 and 430.

2. Justification for Proposed Minor (< 100 words):

Biology as a discipline has been rapidly advancing with the development of biotechnology and information technology, and it has a far-reaching impact on public health, local, regional and global economies, and the environment. A minor in biology can satisfy the Biology requirements for admission to professional schools, provided that the course requirements for physics, mathematics and chemistry are met. It could also provide more career opportunities to students with a degree in Business and Management and Environmental Science and Resource Management and many other fields. Equipped with a minor in biology, students with a major in other disciplines will definitely become more understanding and knowledgeable in the above areas and will therefore be more versatile in their career paths.

3. Total Number of Units in the Minor (including pre-/ co-requisites):¹

21 units

4. Lower-Division Requirements (including pre-/ co-requisites):^{1,2}

8 units

4. Upper-Division Requirements (including pre-/ co-requisites):^{1,2}

13 units

5. Lower and Upper-Division Electives (if any):

6 units, which are included in the Upper-Division requirement

6. Additional Facilities/ Faculty/ Resources Needed to Offer the Minor (if any):

N/A

Notes:

¹ All courses required for the minor must be listed. For example, the Chemistry minor requires 20 units of Chemistry courses, but several of the courses have the requirement of two semesters of Calculus (Calculus I and II). The lower-division requirements for the Chemistry minor must include these additional math courses.

² The Academic Senate at CSUCI has approved that all minors must have a minimum of 15 units, 9 of which must be upper-division.

Review and Approval:

1. Curriculum Committee Approval:

Curriculum Chair:

W. H. Adams

Date:

11/19/01

2. Academic Senate Approval:

Chair, Academic Senate:

Devi Kumar

Date:

11/14/01

3. Administration Approval:

President (or designee):

Date:
