CALIFORNIA STATE UNIVERSITY CHANNEL ISLANDS

NEW COURSE PROPOSAL

PROGRAM AREA _____BIOLOGY

1. Catalog Description of the Course. [Include the course prefix, number, full title, and units. Provide a course narrative including prerequisites and corequisites. If any of the following apply, include in the description: Repeatability (May be repeated to a maximum of _____ units); time distribution (Lecture _____ hours, laboratory _____ hours); non-traditional grading system (Graded CR/NC, ABC/NC). Follow accepted catalog format.]

BIOL 424. HUMAN PHYSIOLOGY (3)

Three hours of lecture per week.

Prerequisite: CHEM 122; BIOL 300 with a grade of C better.

Study of human physiology at both the cellular and organ system levels including neurophysiology, muscle physiology, cardiovascular physiology, respiration, kidney function, hormone function and reproduction.

2. Mode of Instruction.

_	Units	Hours per Unit	Benchmark Enrollment
Lecture	3	1	30
Seminar			
Laboratory			
Activity			

3. Justification and Learning Objectives for the Course. (Indicate whether required or elective, and whether it meets University Writing, and/or Language requirements) [Use as much space as necessary]

BIOL 424 is an elective course for Biology majors. This is an advanced course in human physiology which will be of interest to students desiring a well-rounded education in biology as well as pre-professional students.

Students who successfully complete this course will be able to:

- Describe the function and structure of cells including the metabolic reactions that occur in cells
- Outline, at the molecular level, the transmission of signals in excitable cells
- Explain the structure and function of organ systems in the human body

4.	Is this a General Education Course	YES	<u>NO</u>
	If Yes, indicate GE category:		
	A (English Language, Communication,	, Critical Thinking)	
	B (Life Sciences)		
	C (Fine Arts, Literature, Languages &	Cultures)	
	D (Social Perspectives)		
	E (Human Psychological and Physiolog	gical Perspectives)	
		gical Perspectives)	

5. Course Content in Outline Form. [Be as brief as possible, but use as much space as necessary]

Homeostatsis Cellular structure Cellular metabolism Membrane transport Endocrine signaling Nerve cells and electrical signaling The nervous system Muscle physiology The cardiovascular system The respiratory system The urinary system The digestive system The reproductive system The immune system

6. References. [Provide 3 - 5 references on which this course is based and/or support it.]

Germann, W.J. and Stanfield, C.L. *Principles of Human Physiology*. (2002). Benjamin Cummings. Sherwood, L. *Human Physiology: From Cells to Systems*, 4th edition. (2001). Brooks/Cole. Fox, S.I. *Human Physiology*, 7th edition. (2002). McGraw-Hill.

- 7. List Faculty Qualified to Teach This Course. Nancy Mozingo, other biology faculty
- 8. Frequency.
 - a. Projected semesters to be offered: Fall ____x ___ Spring _____ Summer _____

9. New Resources Required.

- a. Computer (data processing), audio visual, broadcasting needs, other equipment
- b. Library needs
- c. Facility/space needs

10. Consultation.

Attach consultation sheet from all program areas, Library, and others (if necessary)

11. If this new course will alter any degree, credential, certificate, or minor in your program, attach a program modification.

____Nancy Mozingo_____6 January 2003_____ Proposer of Course Date