

**PROPOSAL SUMMARY AND ROUTING FORM**

**Proposal Title:** Endocrinology

**Initiating Unit or Individual:** Joseph Lipar

**Contact Person's Name:** Joseph Lipar e-mail: liparj1@ferris.edu phone: x2660

**Date or Semester of Proposal Implementation:** F07

- Group I - A – New degree/major or major, or redirection of a current offering
- Group I - B – New minors or concentrations
- Group II - A – Minor curriculum clean-up and course changes
- Group II - B – New Course
- Group III - Certificates
- Group IV – Off-Campus Programs

Group/Individual	Signature	Date	Vote/Action *
Program or Academic Unit Faculty			<input checked="" type="checkbox"/> Support <input type="checkbox"/> Support with Concerns <input type="checkbox"/> Not Support
Department Faculty	<i>Joseph Lipar</i>	9/29/06	17 Support 0 Support with Concerns 0 Not Support
Department Head	<i>Ken Smith</i>	9/29/06	X Support <input type="checkbox"/> Support with Concerns <input type="checkbox"/> Not Support
College Curriculum Committee	<i>Sandy Alspach</i>	10/26/06	5 Support <input type="checkbox"/> Support with Concerns <input type="checkbox"/> Not Support
Dean	<i>Mark Allen</i>	10/21/06	<input type="checkbox"/> Support <input type="checkbox"/> Support with Concerns <input type="checkbox"/> Not Support
University Curriculum Committee	<i>Richard [unclear]</i>	11/9/06	✓ Support 8-0 <input type="checkbox"/> Support with Concerns <input type="checkbox"/> Not Support
Senate	<i>Orville W. [unclear]</i>	11/10/06	✓ Support <input type="checkbox"/> Support with Concerns <input type="checkbox"/> Not Support
Academic Affairs	<i>Roxanne Cullen</i>	11/15/06	X Support <input type="checkbox"/> Support with Concerns <input type="checkbox"/> Not Support

\*Support with Concerns or Not Support must include a list of concerns.

\*\*Vote counts are to be shown for faculty group actions. "X" for administrative actions.

<b>To be completed by Academic Affairs</b>		
<hr/>	<hr/>	<hr/>
President (Date Approved)	Board of Trustees (Date Approved)	President's Council (Date Approved)

REC'D NOV 18 2006

## FORM A CONT.

### 1. Proposal Summary

The new course being proposed is Biol 421, Endocrinology. Endocrinology is a major area of physiology. It is usually included in undergraduate curricula as an upper-level elective, especially suited for students in pre-health and other pre-professional programs. Although I have taught this course as an experimental course (see below), this proposal would make Endocrinology a permanent course offering within the Department of Biology.

The proposed course will serve as an upper-level Biology Elective for students working toward a Bachelor of Science in Biology (including Biology, Forensic Biology, Pre-Medicine, Pre-Dentistry, and Pre-Veterinary concentrations). Due to an increase in enrollment in the Biology program, the demand for upper-level electives is not being met by the courses that are currently offered in biology. The proposed course would increase the number of elective offerings to those students.

This course was offered as an experimental course (Biol 490) during the Winter semester of 2006. Eighteen students were enrolled in the course during that semester. The course will be offered again during the Winter semester of 2007 as Biol 490 prior to being converted to Biol 421.

Because this course will serve only as an elective and will not be required by any academic programs, it will not affect any other programs within or outside of the biology department.

### 2. Summary of All Course Action Required\*

a. **Newly Created Courses to FSU:**

Prefix	Number	Title
Biol	421	Endocrinology

b. **Courses to be Deleted From FSU Catalog:**

Prefix	Number	Title
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c. **Existing Course(s) to be Modified:**

Prefix	Number	Title
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d. **Addition of existing FSU courses to program**

Prefix	Number	Title
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e. **Removal of existing FSU courses from program**

Prefix	Number	Title
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\*Contact Senate Secretary or UCC Chair if spaces for additional courses are needed.

## LIBRARY & INSTRUCTIONAL SERVICES CONSULTATION FORM

To be completed by the liaison librarian and approved by the Dean of LIS. All returned forms should be included in the proposal. **Library & Instructional Services must respond within 20 calendar days of receipt of this form to insure that the form is included in the final proposal.**

**FAILURE TO RESPOND IS CONSIDERED AS SUPPORT OF THE CHANGE.**

**RE: Proposal Title:** Biol 421 Endocrinology

**Projected number of students per year affected by proposed change:** 24

**Initiator(s):** Joseph Lipar

**Proposal Contact:** Joseph Lipar

**Date Sent:** \_\_\_\_\_

**Department:** Biological Sciences  
(Please print)

**Campus Address:** 2004 ASC

**Liaison Librarian signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Dean of LIS Signature:** \_\_\_\_\_ **Date Returned:** \_\_\_\_\_

Based upon our review on \_\_\_\_\_ (date), Library & Instructional Services concludes that:

- Library resources to support the proposed curriculum change are currently available.
- Additional Library resources are needed but can be obtained from current funds.
- Support, but significant additional Library funds/resources are required in the amount of \$ \_\_\_\_\_.
- Does not support the proposal for reasons listed below.

**Comment regarding the impact this proposal will have on library resources, collection development, programs, etc. Use additional pages if necessary:**

## NEW COURSE INFORMATION FORM

*See Sample: Limit to One Page.*

### Course Identification:

<b>Prefix:</b>	<b>Number</b>	<b>Title</b>
BIOL	421	Endocrinology

### Course Description:

An in-depth investigation of vertebrate (particularly human) endocrinology. Topics will include hormone structure, hormone synthesis, the mechanisms of hormone action, endocrine disruptors, and the roles of hormones in calcium metabolism, digestive physiology, growth, and the stress and sympathetic responses. The hormones of the major endocrine glands, including the pituitary, hypothalamus, pineal gland, pancreas, thyroid gland, adrenal glands, and gonads will be investigated. There will also be an introduction to various techniques used in endocrinological research.

### Course Outcomes:

First, the students will become familiar with the basic principles of endocrinology and with the research techniques that are used in the field. Second, the course will assist students in increasing their ability to conduct research using the primary scientific literature. Third, the students will improve their written communication skills through a formal written assignment in the form of an annotated bibliography.

### Course Outline including Time Allocation:

Chapter Number:	Topic:	Time Required*:	Week:
1,2	Principles of Vertebrate Endocrinology	2	1
4	Mechanisms of Hormone Action	3	1/2
5,7	Pituitary Hormones	3	2/3
6	Endocrine Hypothalamus	2	3/4
8	Melanotropic Hormones	1	4
9	Calcium Homeostasis	2	4/5
10	Gastrointestinal Hormones	3	5/6
11	Pancreatic Hormones/Metabolic Regulation	3	6/7
12	Growth Hormones	2	7
13	Thyroid Hormones	3	8
14	Catcholamines/Sympathoadrenal System	2	9
15	Adrenal Hormones	3	9/10
16	Sexual Differentiation and Development	3	10/11
17	Male Reproductive Physiology	2	11/12
18	Female Reproductive Physiology	3	12/13
19	Endocrinology of Pregnancy	1	13
20	Pineal Gland	2	13/14
21	Neurohormones	2	14
--	Endocrine Disruptors	3	15

# CREATE A NEW COURSE

Course Date Entry Form

FORM F  
Create Course  
rev. 2/14/05

## I. ACTION TO BE TAKEN: CREATE A NEW COURSE

Notes

1. Complete each item in section I and section II.
2. If this course is to be used as a prerequisite for other university courses, Form Fs that reflect the prerequisite change must be submitted for those courses as well.

Term Effective: a. Semester  b. Year 2007 See instructions.

## II. PROPOSED FOR NEW COURSE: Complete all sections of this part through Prerequisites. See instructions in manual for further clarification.

a. Course Prefix Biol b. Number 421 c. Enter Contact Hours or check Independent Study (X).  
 LECTure 3 hr/week LAB  hr/week INDEpendent Study   
 Practicum:  hr/semester Seminar:  hr/week

d. Full Course Title: Endocrinology

e. Abbreviated Course Title: . (Abbreviate only if necessary. Use Arabic numerals. Limit to 26 characters and spaces.)

f. Semester(s) Offered:  (See instructions for listing.) g. Max. Section Enrollment : 24

Credit Hours: Check (x) type and enter maximum and minimum hours in boxes.

h. Type:  Variable  Fixed i. Maximum Credit Hours 3 j. Minimum Credit Hours 3

k. Grade Method: Check (x)  Normal Grading  Credit/No Credit only (Pass/Fail)

m. May Be Repeated for Added Credit: Check (x)  Yes  No

n. Levels: Check (x)  Undergraduate  Graduate  Professional

o. Does proposed new course replace an equivalent course? Check (x)  Yes  No

p. Equivalent course: Prefix ~~Biol~~ Number ~~490~~ See instructions on Replacement courses.

q. CATALOG DESCRIPTION – Limit to 75 words – PLEASE BE CONCISE.

An in-depth investigation of vertebrate (particularly human) endocrinology. Topics will include hormone structure, hormone synthesis, the mechanisms of hormone action, endocrine disruptors, and the roles of hormones in calcium metabolism, digestive physiology, reproduction, growth, and the stress and sympathetic responses. The hormones of the major endocrine glands be investigated. There will also be an introduction to various techniques used in endocrinological research. This course includes the reading and understanding of primary scientific literature.

r. Prerequisites: (if no prerequisites, write "None") Limited to 60 spaces. Biol 205 or Biol 322.

UCC Chair Signature/Date:

[Signature] 11, 9, 06

Academic Affairs Approval Signature/Date:

[Signature] 11, 15, 06

To be completed by Academic Affairs Office: - Standard & Measures Coding and General Education Code

Basic Skill (BS)  General Education (GE)  Occupational Education (OC)  G.E. Codes

### Office of the Registrar use ONLY

Date Received: \_\_\_\_\_ Date Completed: \_\_\_\_\_ Entered: SIS [125 \_\_\_ 1D4 \_\_\_ 12R \_\_\_, 131 \_\_\_]

## GENERAL EDUCATION APPROVAL FORM

Form G plus justification of the general education designation being sought should be sent to the General Education Coordinator (preferably electronically). The criteria for each designation can be found on the FSU web page: Home/Academics/General Education Requirements/Criteria.

Upon review the form below will be completed by the **University General Education Committee** for the courses that will meet General Education requirements. The form must be included in the proposal packet.

**THE UNIVERSITY GENERAL EDUCATION COMMITTEE MUST ACT BEFORE PROPOSAL CAN BE FORWARDED TO THE UCC.**

**Course Prefix:** Biol **Course Number:** 421

**Course Title :** Endocrinology **G. E. Codes Requested:** Z

G.E. Codes: G=Global Consciousness; R=Race/Ethnicity/Gender Issues; S=Social Awareness; C=Cultural Enrichment;  
W=Writing Intensive; Z=Scientific Understanding

**Initiator:** Joseph Lipar **Date Sent:** \_\_\_\_\_

**Proposal Contact:** Joseph Lipar **Email:** liparj1@ferris.edu

**Department:** Biological Sciences **Campus Address:** 2004 ASC  
**Please Print**

**University General Education Committee:** \_\_\_\_\_

**Chair:** \_\_\_\_\_ **Date Returned:** \_\_\_\_\_

Based upon University General Education Committee review on \_\_\_\_\_ (date), we

Support the request to designate the course listed above as a \_\_\_\_\_ (insert Gen. Ed. Designation(s).)

Do not support the request to designate the course listed above as a \_\_\_\_\_ (insert Gen. Ed. Designation(s) for reasons listed below.

**Comments:**

\_\_\_\_\_