New Course Request

Indiana University

Check Appropriate Boxes: Undergraduate credit ☒ Graduate credit ☐ Professional credit ☐

EAST Campus

1. School/Division: Natural Science + Math
2. Academic Subject Code: BIOL
3. Course Number: 4394 (must be cleared with University Enrollment Services)
4. Instructor: Hitesh Katturi
5. Course Title: Hormones and Human Health II
   Recommended Abbreviation (Optional): HHH II
   (Limited to 22 Characters including spaces)
6. First time this course is to be offered (Semester/Year): 2014 Fall
7. Credit Hours: Fixed at 3 or Variable from ______ to ______
8. Is this course to be graded S/F (only)? Yes ☐ No ☒
9. Is variable title approval being requested? Yes ☐ No ☒
10. Course description (not to exceed 50 words) for Bulletin publication:
    See attached documents
11. Lecture Contact Hours: Fixed at 3 hours or Variable from ______ to ______
12. Non-Lecture Contact Hours: Fixed at 0 or Variable from ______ to ______
13. Estimated enrollment: 45 of which ______ percent are expected to be graduate students.
14. Frequency of scheduling: Once/3 yr. Will this course be required for majors? Yes ☐
15. Justification for new course: Part of Upcoming BS Biochemistry degree
16. Are the necessary reading materials currently available in the appropriate library? Will be provided online
17. Please append a complete outline of the proposed course, and indicate instructor (if known), textbooks, and other materials.
   See attached documents
18. If this course overlaps with existing courses, please explain with which courses it overlaps and whether this overlap is necessary, desirable, or unimportant. No overlap
19. A copy of every new course proposal must be submitted to departments, schools, or divisions in which there may be overlap of the new course with existing courses or areas of strong concern, with instructions that they send comments directly to the Originating Curriculum Committee. Please append a list of departments, schools, or divisions thus consulted.

Submitted by: [Signature] Date: 03/17/2010
Department Chairman/Director

Dean of Graduate School (when required) Date:

Approved by: [Signature] Date: 04/13/10
Dean

University Enrollment Services

After School/Division approval, forward the last copy (without attachments) to University Enrollment Services for initial processing, and the remaining four copies and attachments to the Campus Chancellor or Vice-President.

University Enrollment Services Final—White; Chancellor/Vice-President—Blue; School/Division—Yellow;
Department/Division—Pink; University Enrollment Services Advance—White
Hormones and Human Health II
BIOL-L-394

10. Course Description- (50 words)

Study the cause, effect and management of some common diseases and health conditions related to human hormones. Several included topics are pregnancy and contraception, male urogenital system and prostate enlargement, sexually transmitted diseases, erectile dysfunction, infertility, obesity, osteoporosis, thyroid diseases, adrenal medulla and cortex, depression.

Prerequisites – BIOL-L-101 or 102 (Introduction to biological sciences (4 cr))

15. Justification of new course-

a) These topics are not included in any course currently being offered at IU East
b) Required component for upcoming BS in Biochemistry degree.
c) Expansion in offerings for BS Biology in School of Natural Science and Mathematics.

18. Does this course overlap with existing courses?

No overlap with courses currently offered at IU East.
IU EAST COURSE OUTLINE OF RECORD
(Submit with ECAP form)

(Course Title and Number here in bold)

COURSE TITLE: Hormones and Human Health II

COURSE NUMBER: BIOL-L-394

CREDIT HOURS: 3

SCHOOL: NSM

PROGRAM: To be offered as an elective for existing BS degrees and upcoming BS Biochemistry degree.

COURSE CATALOG DESCRIPTION: Hormones and Human Health II may be taught as an online course and will be offered in spring semester. The course is designed to address gender studies as well. Approximately 40% of the course is related to gender specific diseases. The selection of the diseases to be covered in this course is based on how hormones affect human health. Some other common diseases have also been included that can be found in newborns, teenagers and senior citizens. The purpose is to increase scientific awareness about common diseases that affect people of different age groups and genders.

PREREQUISITES: BIOL-L-101 or 102

ANTICIPATED CLASS FORMAT (Online, Classroom, Hybrid): Online

CONTACT TYPE (Lecture, Lab, Other): Lecture

TEXTBOOK(S) FOR FIRST OFFERING:
None required. All materials are provided online via oncourse

TOPICS TO BE ADDRESSED: (Narrative and/or bullet points)
• In this course we will attempt to broadly cover the following topics -
  1. Introduction to the endocrine system
  2. Pregnancy and contraception
  3. Male urogenital system and prostate enlargement
  4. Sexually transmitted diseases
  5. Erectile dysfunction
  6. Infertility
  7. Obesity
  8. Osteoporosis
  9. Thyroid diseases

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10. Adrenal medulla and cortex
11. Skin cancer
12. Depression
13. Hair loss

IU EAST CAMPUS LEARNING OBJECTIVES:

Educated people should:

1. Be exposed to a broad variety of academic fields traditionally known as the Liberal Arts (humanities, fine arts, social sciences, natural sciences) in order to develop a critical appreciation of a diversity of ideas and creative expression.
2. Have achieved depth in some field of knowledge. A sequential accumulation of knowledge and skills in an academic discipline is essential for a focused personal and professional development.
3. Be able to express themselves clearly, completely, and accurately. Effective communication entails the successful sharing through a wide variety of techniques, including reading writing, speaking and technology.
4. Be able to relate computational skills to all fields so that they are able to think with numbers. At minimum students should be able to carry out basic arithmetical and algebraic functions; they should have a working concept of simple statistics; and they should be able to interpret and use data in various forms.
5. Have the ability to develop informed opinions, to comprehend, formulate, and critically evaluate ideas, and to identify problems and find solutions to those problems. Effective problem solving involves a variety of skills including research, analysis, interpretation and creativity.
6. Develop the skills to understand, accept and relate to people of different backgrounds and beliefs. In a pluralistic world one should not be provincial or ignorant of other cultures; one's life is experienced within the context of other races, religions, languages, nationalities and value systems.
7. Be expected to have some understanding of and experience in thinking about moral and ethical problems. A significant quality in educated persons is the ability to question and clarify personal and cultural values, and thus to be able to make discriminating moral and ethical choices.

LIST COURSE OBJECTIVES (with a notation indicating which Campus Learning Objective is met.)

- Since this course addresses diverse conditions affecting humans across age, gender and ethnicity it satisfies campus learning objective number 1.
- Students are educated about hormones and health related conditions. This course provides them in depth knowledge about human health. This meets campus learning objective number 2 as mentioned above.
- In this course students will be able to critically evaluate scientific ideas, develop informed opinions, identify problems and find solutions to those problems. This satisfies criteria number 5 of the campus learning objectives.
• Students will be able to take an informed decision on several burning health issues after taking this course. This satisfies campus learning objective number 7 as mentioned above.

DATE OF COURSE IMPLEMENTATION: Spring 2014

DATE OF LAST REVISION (IF ANY):

Actual Course Syllabus May Contain Additional Materials

Submitted by: Hitesh Kathuria_________________________ Date:
4/16/2010________