

New Course Request

Indiana University

EAST

Campus

Check Appropriate Boxes: Undergraduate credit Graduate credit Professional credit

1. School/Division NATURAL SCIENCE & MATHEMATICS 2. Academic Subject Code BIOL

3. Course Number L-393 (must be cleared with University Enrollment Services) 4. Instructor Dr. HITESH KATHURIA

5. Course Title HORMONES AND HUMAN HEALTH I

Recommended Abbreviation (Optional) _____
(Limited to 32 Characters including spaces)

6. First time this course is to be offered (Semester/Year): SPRING 2010

7. Credit Hours: Fixed at 3 or Variable from _____ to _____

8. Is this course to be graded S-F (only)? Yes _____ No X

9. Is variable title approval being requested? Yes _____ No X

10. Course description (not to exceed 50 words) for Bulletin publication: STUDY THE CAUSE, EFFECT AND MANAGEMENT OF SELECT DISEASES AND HEALTH CONDITIONS RELATED TO HUMAN HORMONES. TOPICS INCLUDED ARE DIABETES, DISEASES OF HUMAN ENDOCRINE SYSTEM, FEMALE UROGENITAL DISEASES, HORMONAL EFFECTS IN NEWBORN, PREGNANCY & CONTRACEPTION, BLOOD PRESSURE. P: BIOL-L107

11. Lecture Contact Hours: Fixed at 3 HOURS or Variable from _____ to _____

12. Non-Lecture Contact Hours: Fixed at ZERO or Variable from _____ to _____

13. Estimated enrollment: 50 of which _____ percent are expected to be graduate students.

14. Frequency of scheduling: ONCE / YEAR Will this course be required for majors? YES-BS BIOCHEM.

15. Justification for new course: SEE ATTACHED

16. Are the necessary reading materials currently available in the appropriate library? NO; BUT AVAILABLE ONLINE

17. Please append a complete outline of the proposed course, and indicate instructor (if known), textbooks, and other materials.

18. If this course overlaps with existing courses, please explain with which courses it overlaps and whether this overlap is necessary, desirable, or unimportant

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:	Approved by:
_____ Date _____	_____ Date _____
Date Department Chairman/Division Director	Dean
_____ Date _____	_____ Date _____
Dean of Graduate School (when required)	Chancellor/Vice-President
	_____ Date _____
	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.



Continuation of New Course Request Form for BIOL-L393

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 diabetes, diseases of human endocrine system, female urogenital diseases, hormonal effects in newborn, menopause, pregnancy and contraception. Also included are diseases like Alzheimer's, breast cancer and blood pressure. Prerequisites – BIOL-L-107.

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.

Indiana University East Course Outline of Record

Hormones and Human Health I BIOL-L-393

Instructor: Dr. Hitesh Kathuria
Office: WZ254
Phone: 765-973-8247
E-mail: hikathur@indiana.edu

Instructor: Professor Joan E. Lafuze
Office: WZ271
Phone: 765-973-8246
E-mail: jlafuze@indiana.edu

- Hormones and Human Health I may be taught either as a traditional lecture or an online course and will be offered every fall semester. BIOL-L-107 is a prerequisite for this course and no books are required.
- 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.
- In this course we will attempt to broadly cover the following topics -
 1. Introduction to the endocrine system
 2. Diseases of the human endocrine system
 3. Female urogenital diseases
 4. Menopause and PMS
 5. Hormonal effects in newborn
 6. Pregnancy and contraception
 7. Blood pressure
 8. Diabetes
 9. ADHD
 10. AIDS
 11. Alzheimer's disease
 12. Breast cancer
 13. Acne

Outline of activities:

- 1.** Hormones and Human Health I may be taught as an **online course** or as a traditional lecture class.
- 2.** In an online class **lecture slides are posted online** every Friday on Oncourse as Power point or Adobe presenter files.
- 3.** **Links to important websites and videos** are being provided as well. This addresses the needs of visual and auditory learners.
- 4.** Most of the slides have a recorded narration in an attempt to simulate class room conditions.
- 5.** Additionally, some topics will also have a **podcast**.
- 6.** All students have to participate in a **forum section**. This is an interactive way in which students can ask questions and discuss points with each other as well as with the instructor.
- 7.** Each week students will be required to attempt a **quiz** for 10 points each. There will be **two exams** worth 100 points each during the semester. The exam will be on Oncourse and students can attempt the exam only once. Once opened the exam shall expire and auto submit after the allotted time and cannot be retaken.

Midterm Exam – Week 7 of the semester –	100 points
Final Exam – Week 14 of the semester –	100 points
Weekly quizzes – 10 points for each quiz -	130 points
Forum participation – 10 points for each week-	130 points
Total score will be out of -	460 points

Learning Objectives-

1. Educated persons should 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. Hormones and Human Health I is a biology course that educates the student about various diseases and conditions affecting the human body. It satisfies the natural science criteria.
2. Educated persons should 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. The hormones and

human health I course is focused only on the human diseases and its related aspects thus provide the students depth in a specific area – human health.

3. Educated persons should 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. Since this is a 100 % online class students learn how to use technology effectively and in a paper free environment. The forum section gives them ample opportunities to hone their writing skills and be able to communicate effectively in a distance education class environment.
4. Educated persons should 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. In this course students have to answer forum questions, discuss and review case studies which helps them develop their critical thinking skills, do online research and find answers to problems independently.
5. Educated persons should 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. This course fulfills this learning objective as several students have different beliefs and values especially in relation to topics like pregnancy and contraception, ADHD, menopause and PMS. They get to learn from others experiences and how an individual's beliefs and diverse cultural backgrounds affect their perception related to such diseases and conditions.