Core Curriculum Supplement

Academic Unit / Office Depart of Biology & Biochemistry **Catalog Year of Implementation** 2017-2018

Course (Prefix / Number) BIOL / 1305 **Course Title** Human Biology for the Informed Global Citizen

Core Proposal Request

☒ Add to Core Curriculum ☐ Revise course already in Core Curriculum

	Current Core Categorization (New additions: select N/A for this column)	**Proposed Categorization for Upcoming Core**
Foundational Component Area (required)	N/A (Not currently a Core course)	Life and Physical Sciences (30)
Component Area Option (optional)	N/A (No Component Area Option)	N/A (No Component Area Option)
Category Listing: Single or Double?	N/A (Not currently a Core course)	List under the Foundational Component Area ONLY.

Core Proposal Rationale - Please provide a rationale for including, or continuing to include, this course in the UH Core Curriculum:

The purpose of this course is to create informed citizens that understand the science behind current biological issues that influence the quality of human existence. The course will utilize select topics covered within other biology non-major courses, but not in as much depth, in order to accommodate time needed to focus on the physiological aspects and the cultural, social and ethical issues that every human being should understand as a citizen of the world. In addition it will provide students with a holistic understanding of the human species. It will be organized to highlight social issues in today's media that appears more relevant and affects everyday life while exploring diverse aspects of humanity and gaining solid knowledge of human organ systems. In addition, this course should be included as a part of core curriculum because it can be used to give non-majors a learning experience where they improve their ability to think about science, cultural and social issues influenced by science and gain perspective that denote educated persons as opposed to only preparing students in specific professions.

Core Objectives

☒ Critical Thinking ☒ Teamwork

☒ Communication ☐ Social Responsibility

☒ Empirical & Quantitative Skills ☐ Personal Responsibility

Please explain how the Core Objectives selected above will be met:

**** See Appendix for Core Objectives, Learning Objectives and Sample Lessons. ****

When submitting this proposal form, please remember to attach a syllabus, learning objectives, and/or sample lesson(s).

BIOL 1305 - HUMAN BIOLOGY FOR THE INFORMED GLOBAL CITIZEN – FALL 2018

Course Description: The goal of this course is to introduce students to basic concepts in human biology so that they can apply their knowledge in their everyday lives as informed consumers and users of scientific information. The format of the course is inquiry based within the context of important cultural and social issues. This course will give students a greater appreciation for the sciences and enhance the student's ability to make informed and ethical decisions about human biological issues that affect the global community.

Instructor: Monique Ogletree, PhD
Class Day & Time: Tues & Thurs 11:30am - 1:00 pm **Location:** TBA
Text: *Biology for the Informed Citizen with Physiology* (5th edition)
Office: Room 242J in the Science & Research Building 2 (SR2)
Office Hours: Monday & Wednesday 2:00 – 3:00pm; or by appt
Office Phone: 713-743-1016 **Email Address:** mogletree@uh.edu

Date		*Course Content*
Jan.	*16*	Martin Luther King Jr. Day - No Class
	17	Course overview & Introduction of Bioethics; What does ethics have to do with science?
	19	Ch 1 – Nature of Biology; Why does biology matter to you?
	24	Ch. 2 –Nature of Science; How do we know how the world works? **
	26	Ch. 3 –Development; How do cells make a person?
	31	Ch. 3 – Development; Key events of pregnancy – what can go wrong? **
Feb	*2*	Ch. 4 – Inheritance; Does disease have a genetic basis? Molecular medicine and sickle cell
	7	Ch. 4 – Genes & Physical Characteristics – cont.
	9	**Exam I (Chapters 1 – 4)**
	14	Ch. 5– Cancer; How does cancer make you sick?
	16	Ch. 6 - Reproduction; What kind of baby is it?
	21	Ch. 7 – Genetic Engineering; Can we create better species (plant, animal and human)?
	23	Ch. 8 – Heath Care & the Human Genome; The use of new medical and genetic skills?
	28	Ch. 8- Heath Care & the Human Genome; Technology use to create mega humans?
Mar	***2***	**Exam II (Chapters 5 – 8)**
	7	Ch. 11 – Homeostasis; Why is it important for the body to maintain internal balance?
	9	Ch. 11- Homeostasis; How to avoid dehydration?
	14	***Spring Break Holiday (March 13th to March 18th)***
	16	
	21	Ch. 12 – Circulation & Respiration; What if your body does not get the oxygen it needs?
	23	Ch. 12 – Circulation & Respiration; What happens when systems malfunction?
	28	Ch. 13 – Nervous System; Does your brain determine who you are? After Injuries?
	30	Ch. 14 – Immunology; How are invaders handled? **
Apr	*4*	Ch. 15 – Digestion; How does what we eat influence our well-being and lifestyle?
	6	Ch. 15 – Bone & Muscle; What must we consider in order to remain active and healthy?
	11	**Exam III (Chapters 11 - 15)**
	13	Ch. 9 – Evolution and the Origin of Life; How did the human species arise?
	18	Ch. 10- Evolution & Biography of Disease; Why do we get sick?
	20	Ch. 17 – Biodiversity in Human Affairs; How is the human race like a meteorite?
	25	Teamwork Presentations
	27	Teamwork Presentations
May	2	Make Up Day / Reading Day
	10	**Exam IV (Chapters 9-10, 17, ethics) from 2:00 – 5:00pm**

The above schedule is subject to change without prior notice in the event of extenuating circumstances.

***** Important deadline notices, see section below *****

Learning Objectives

By the completion of this course, students will be able to;

1. Demonstrate basic knowledge of human biological systems and how they are maintained and affected by their environments.
2. Connect biological concepts to consequences in biology through case studies and real life applications of current issues.
3. Understand why we, the citizen, know what we know through scientific inquiry and collaborative problem solving.
4. Create thinking and informed citizens that are able to apply biological concepts to relevant cultural and social issues while utilizing both scientific and ethical reasoning.
5. Work with peers to apply content knowledge to problem solving and effective communication of solutions to classmates and instructors.
6. Identify and analyze the potential for ethical conflict with areas throughout the course, while learning to apply both principles of scientific and ethical reasoning to defend conclusions of that reasoning (ex; use of non-human primates and genetically isolated groups for research, cloning, artificial reproduction, cloning etc.).

Exams and Grading Polices

There will be **four exams**; the final exam is not comprehensive and will include material from 4-5 chapters. Exams will cover material presented during lectures and using outside research. The Exams consist mainly of multiple choice questions which may also include diagrams/pictures, and some true/false questions. The other portion of the exam includes free response questions that make up 5% of the exam. Free response questions will be measured based on content and student's ability to apply scientific knowledge to real life situations. Each exam will cover 20% of the final grade;

Students must take all four exams and there are no dropped exams. Make-up exams are allowed at the discretion of the instructor. Automatic approval will be given in the case of a verifiable medical condition, religious holy days or other emergency; I must be notified of this as soon as possible. *Excuses of a purely social nature will not be accepted*. Please familiarize yourself with the University policies on cheating and academic honesty outlined in the University of Houston Student Handbook. *Cheating during the exam will not be tolerated.* Demonstrable incidents of cheating could result in the student receiving a zero for the exam or a grade of "F" for the course.

There will be **weekly homework assignments** that will cover material presented in 2-3 chapters. Homework assignments will be completed on line using interactive companion website associated with the assigned textbook. Homework assignment will include multiple choice questions, activity type questions, video questions and tutorials. Students should always be aware of the completion deadlines for all homework assignments. The final homework grade will be averaged and will make up 10% of grade.

There will also be a **group project** centered on a current controversial issue in human biology. Each group will consist of 5-10 students depending on class enrollment. Each student will be responsible for submitting a two page summary paper on the information discovered by the group. The paper will be returned to each student with feedback. An opportunity to recover 50% of points lost will be allotted to each student with a second submission within 1 week of the first submission. In addition to collecting data, the group will be responsible for creating a visual aid used to communicate to the class their assigned view point on the issue. **Both the paper and the visual aid will be turned in to make up the remaining 10% of the grade.**

For each exam, scores are subjected to statistical analysis, which may or may not warrant a curve being assigned; results of this analysis are presented the week after an exam and are also posted on Blackboard. At the end of the semester, the four exams, homework assignments and group project will be totaled. From this final analysis, letter grade cut-offs will be determined (C-, C, C+, B-, B, etc) and final grades will be assigned.

Standard Grading Scale

	B+ 87-89	C+ 77-79	D+ 67-69	F 59 and below
A 93-100	B 83-86	C 73-76	D 63-66	
A- 90-92	B- 80-82	C- 70-72	D- 60-62	

NOTE:
Every student has their own expectations in terms of the final grade they wish to achieve in the course. If you are not meeting these expectations as indicated by your first 2 exam scores, then drop the course. You can drop from the class with a "W" up until March 31st, after this date it will be too late to drop without getting an F in the course.

Extra Credit

Extra credit is provided in the form of quizzes that are given during the semester these quizzes **ARE NOT** mandatory & are completely optional; the quizzes generally comprise 5-10 questions in which you will have 10 minutes to complete. In order to get full credit you must pass with ≥80% score. Unlike exams, quizzes are not curved. Each quiz you get credit for will gain you one (1) percentage point added on to your final course grade; maximum is 4 points added on. **There is no partial credit given AND there is absolutely, under any circumstances, no make-ups for quizzes, including any excuses that you missed the quiz for whatever reason. Again, quizzes are optional, so failure to take any quiz will not count against your final grade**.

Tutoring

Tutoring is available through Learning Support Services (713-743-5411); they are located in room 321 in the Social Work Building (website for schedule of tutoring hours: http://las.uh.edu/lss/tutor_hours.aspx).

Final Exams: the examination times are set by the university and are given in the same class in which the course is taught. **Final exams are not given prior to this date to accommodate travel plans, etc. With this in mind, arrange travel reservations now so that you do not schedule travel during the final exam dates.**

Tips for Success

1. Lecture notes and other class material are posted on VNET (VNET instructions below) prior to class. Download documents and bring with you to take notes on during class. It is important to take notes during class; not all material is presented in my lecture notes, as I frequently draw diagrams and write during lecture in order to explain concepts and processes. The assigned chapter(s) should be read ***prior to*** the class lecture covering that material. This strategy will help you to follow the lectures and enhance your ability to master the information and concepts needed to do well on the exams.

2. **Studying for exams**: lecture notes and your own notes taken during class should be your primary study material; use the text as a resource to help you understand material you don't understand from the lecture notes. As you study, make a note of those topics you do not quite understand and see me (or email) for clarification of these concepts. Your goal in studying is not to solely memorize everything, but rather to be able to correctly explain the concepts covered in class. If you truly understand a particular concept in this way, then you can correctly answer **any** type of question asked on that topic.

3. Keep up with the reading and studying! If you fall too far behind it may be impossible to catch up since the fundamentals taught early on are integral to the material taught later on in the course. A consistent effort is essential to getting a good grade.

4. The text for this course is supported by a free web site that provide a variety of learning tools including *animated tutorials*, *self-quizzes*, *glossary of key terms and concepts, etc.* (the website and CD-ROM have the same information). These are valuable resources that can help you to master the concepts and reinforce your learning.

General Information

Students with disabilities are accommodated per University rules and regulations. To make the necessary arrangements you should register with Center for Students with Disabilities at 307 Student Service Center, or call (713)743-5400. If a student decides to ***withdraw*** from the course, it is his/hers responsibility (*not* the instructors) to complete, have the instructor sign, and submit the necessary form. Students who complete only part of the exams and/or other required assignments for the course and do not complete the paperwork required for withdrawal will receive a grade of "F". At the instructor's discretion, students withdrawing from the course may receive a grade of "F" instead of a "W" if they have not received passing grades up to that point. **Regarding late drops (after the drop date has passed): I have no authority to drop you from the course under these circumstances.**

Important Dates:

Tues	Jan 24th	Last day to add class online (by 11:59 pm)
Wed	Feb 1st	Last day to drop the course without receiving a grade
Fri	Mar 31st	Last day to drop the course with a "W"

Academic Honesty: It is each student's responsibility to read and understand the Academic Honesty Policy found at http://catalog.uh.edu/content.php?catoid=6&navoid=1025.

Religious Holy Days: Students whose religious beliefs prohibit class attendance or the completion of specific assignments on designated dates may obtain an excused absence. To do so, please make a written request for an excused absence and submit it to your instructor as soon as possible, to allow the instructor to make arrangements. For more information, see the Student Handbook. http://catalog.uh.edu/content.php?catoid=4&navoid=791.

Standard Disclaimer: This syllabus is subject to change at the discretion of the instructor.

Blackboard Support

Online at **http://www.uh.edu/blackboard** - Check out Student Help for common problems
Phone call 713-743-1411, 24 hours a day Monday-Friday (except during University holidays) and 8 am to 8 pm Saturday-Sunday
In Person at Main Campus
116-PGH Monday-Friday, 8 am to 8 pm (except during University holidays)
1st floor MD Anderson Library Monday-Friday, 8 am to 8 pm (except during University holidays)
Email - **support@uh.edu**
Live chat - **http://www.uh.edu/infotech/livechat**

- Monday-Thursday 8 am to Midnight (except on University holidays)
- Friday 8 am to 5 pm (except on University holidays)
- Saturday Closed
- Sunday 2 pm to 8 pm (except on University holidays)

Spring 2017 – Student Clicker & TP Cloud Guide

Where to Buy Turning Point Clicker

Turning Point RF-LCD clickers are available at Barnes & Noble at University Center (UC).

Clicker Pricing Information:

- $40 (including tax and built-in lifetime activation)

For the detailed Clicker purchasing information, please contact Barnes & Noble in the UC.

- Address: 4800 Calhoun Rd., 126 University Center
  Houston, TX 77204
- Phone: 713-748-0923

NOTE: If you are getting a book loan, you can use your book loan to buy a clicker through the bookstore.

Find more detailed information on Blackboard.

Spring 2017 – Online Homework Assessment

Find more detailed information on Blackboard