Request for Courses in the Core Curriculum

Originating Department or College: <u>Department of Biology and Chemistry, College of Arts and Sciences</u>		
Person Making Request: Michael R. Kidd		
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Course Number and Title: BIOL 1371: Human Biology		
Please attach in separate documents: Completed Catalog Add/Change Form X_ Syllabus		
List the student learning outcomes for the course (Statem result of taking this course. See appended hints for constr		
 Student Learning Objectives: Upon the successful completed. Use critical thinking empirical skills to design and in hypothesis. Use quantitative skills to analyze a biological data. Gain and apply laboratory and safety skills. Communicate the results of a scientific investigation. Demonstrate knowledge of structure and function. Demonstrate knowledge of the systems of the hur. 	nplement a scientific experiment to test a specific biological set. on both verbally and through written reports. of the human body.	
information. (SLOs: 1)2. Communication Skills: Students will demonstrate communication. (SLOs: 4)	ation, inquiry and analysis, evaluation, and synthesis of their ability to communicate effectively by using written hipulation and analysis of numerical data or observable facts	
Component Area for which the course is being proposed (Communication Mathematics Language, Philosophy, & Culture Creative ArtsX Life & Physical Sciences	check one): American History Government/Political Science Social & Behavioral Science Component Area Option	
Competency areas addressed by the course (refer to the a optional in each component area): _X Critical ThinkingX Communication SkillsX Written Communication Oral Communication Visual CommunicationX Empirical & Quantitative Skills	ppended chart for competencies that are required and X Teamwork Personal Responsibility Social Responsibility	

Because we will be assessing student learning outcomes across multiple core courses, assessment assigned in your course must include assessment of the core competencies. For each competency checked above, indicate the specific course assignment(s) which, when completed by students, will provide evidence of the competency. Provide detailed information, such as copies of the paper or project assignment, copies of individual test items, etc. A single assignment may be used to provide data for multiple competencies.

Critical Thinking:

Students will be assigned a "Paper Presentation" project in which groups of four students will review and analyze a recent (within the last 4 years) scientific paper (approved by the instructor) in the field of biology. The students will use critical thinking skills to evaluate the experimental approach, the importance of the finding with regards to biology and the public in general and to develop the next reasonable experiment for the given field of study. A critical thinking rubric with domains for creative thinking, depth of inquiry, evaluation of importance and synthesis of information can be scored during the presentation by the instructor, or the written essay can be up loaded for evaluation by the Core Curriculum Assessment Committee.

Communication Skills:

At the end of the "Paper Presentation" project, each student will produce a 2-3 page essay based on their analysis of the paper (see Critical Thinking). The instructor can score the written essay for organization, focus, style and grammar using a modified WIN rubric, or the written essay can be up loaded for evaluation by the Core Curriculum Assessment Committee.

Empirical & Quantitative Skills:

The students will perform an analysis on class data generated in the lab sections. Class data on human height and hand length will be assembled in all of the laboratory sections, but the aggregate data will be analyzed in the lecture. Each student will produce a 1-2 page written analysis that will include calculating the mean, median, standard deviation, standard error for each group and conducting a correlation to examine the relationship between human height and hand size. The instructor can assess the logical reasoning behind the calculations and the appropriateness of the statistical analysis, or the lab report can be up loaded for evaluation by the Core Curriculum Assessment Committee.

Teamwork: N/A	
Personal Responsibility: N/A	
Social Responsibility: N/A	
Will the syllabus vary across multiple sections of the course? Yes If <i>yes</i> , list the assignments that will be constant across the sections:	_X No

Inclusion in the core is contingent upon the course being offered and taught at least once every other academic year. Courses will be reviewed for renewal every five (5) years.

The department understands that instructors will be expected to provide student work and to participate in university-wide assessments of student work. This could include, but may not be limited to, designing instruments such as rubrics, and scoring work by students in this or other courses. In addition, instructors of core courses may be asked to include brief assessment activities in their courses.

Reviewed and approved by the Core Curriculum Committee on February 13, 2013.