

TEXAS STATE Life and Physical Sciences Foundational Component

Course:

Questions:	Comments:
1. Describe how this course will meet the Life and Physical Sciences Foundational Component Area description.	
a. Courses in this category focus on describing, explaining and predicting natural phenomenon using the scientific method.	
b. Courses involve the understanding of interactions among natural phenomena and the implications of scientific principles on the physical world and on human experiences.	
2. How does this course meet the Required Core Objective Outcomes for the Life and Physical Sciences Foundational Component Area?	
a. Critical thinking skills, including <ul style="list-style-type: none"> • creative thinking, • innovation, • inquiry, and • analysis, evaluation and synthesis of information 	
b. Communication skills, including effective <ul style="list-style-type: none"> • development, • interpretation and • expression of ideas through • written, • oral, and • visual communication 	
c. Teamwork skills including <ul style="list-style-type: none"> • the ability to consider different points of view, and • to work effectively with others to support a shared purpose or goal 	
d. Empirical and quantitative skills, which includes manipulation and analysis of <ul style="list-style-type: none"> • numerical data or • observable facts resulting in informed conclusions 	
3. (Defining Characteristics) In relation to this course, how are the following categories of learning addressed in the course content?	
• Students will understand scientific facts, knowledge and skills from the given area of life and physical science.	
• Students will demonstrate how the scientific method is used to create new scientific knowledge.	
• Students will show how scientific theories are justified, what counts as evidence, or how theory and evidence interact.	
• Students will be able to explain and predict observations of natural phenomena and propose alternative explanations or predictions of phenomena.	
• Students will exhibit knowledge of the major issues and problems facing modern science, including issues that touch upon ethics, values, and public policies.	
4. Describe the types of assessment that will be completed to assess student learning related to the component area and core objective outcomes in this course.	
<i>Direct assessment methods—for example,</i>	

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<ul style="list-style-type: none"> • Objective quizzes and tests that determine whether students have mastered the cognitive skills in the course. • Written assignments and essay exam questions that reflect competent understanding of course material and concepts. • Class participation that indicates a satisfactory level of student comprehension of course material. 	
<p>5. Method to determine effectiveness of:</p>	
<p>a. instructor(s), and</p>	
<p>b. course</p>	
<p>6. If other institutions are using a similar course to meet their GE requirements:</p>	
<p>a. Which institution(s)?</p>	
<p>b. Are there prerequisite requirements for that course? If yes, what are those prerequisites?</p>	
<p>7. For this course, provide the following additional information:</p>	
<p>a. for an existing course</p>	
<p>1) What is the current enrollment (last 2 semesters)?</p>	
<p>2) During what semester(s) is the course offered?</p>	
<p>3) Will the course have to be offered with increased frequency?</p>	
<p>4) What other courses may experience lower enrollments as a result of adding this course as a general education requirement?</p>	
<p>5) Is this course required for a major in an area?</p>	
<p>6) Is this course required for a minor in an area?</p>	
<p>b. for a proposed course</p>	
<p>1) What is the projected enrollment?</p>	
<p>2) In which semester(s) will the course be offered?</p>	
<p>3) What other courses may experience lower enrollments as a result of adding this course as a general education requirement?</p>	
<p>4) Will this course be required for a major in an area?</p>	
<p>5) Will this course be required for a minor in an area?</p>	

Please provide any additional comments about the course that the subcommittee should consider when making a recommendation about the course to the General Education Council. Also include a draft or current course syllabus.