

CORE CURRICULUM COMPONENT APPLICATION

CORE COMPONENT AREA	Life and Physical Sciences
COURSE TYPE	Existing Core
DEPARTMENT	Biology
COURSE RUBRIC & NUMBER	BIOL 1406
COURSE NAME	General Biology for Science Majors I
CATALOG DESCRIPTION	Fundamental principles of living organisms will be studied including physical and chemical properties of life, organization, function, evolutionary adaptation, and classification, concepts of cytology, reproduction, genetics, and scientific reasoning are included
NUMBER OF SECTIONS OFFERED/FALL	3
NUMBER OF SECTIONS OFFERED/SPRING	1
EXTIMATED ANNUAL ENROLLMENT	100
COURSE LEVEL	Freshman
CONTACT PERSON (dept. representative)	Chet Cooper
EMAIL ADDRESS	ccooper@odessa.edu
PHONE	432.335.6590
DEPARTMENT APPROVAL STATUS	Select One - Date Click here to enter a date.
CORE COMMITTEE COMMENTS <small>(REQUEST FOR ADDITIONAL INFORMATION)</small>	
CORE COMMITTEE APPROVAL STATUS	Select One - Date Click here to enter a date.

Best practices and accreditation guidelines generally place the faculty in a position of responsibility for curricular decisions.

CORE CURRICULUM COMPONENT APPLICATION

Indicate below how each learning objective will be supported, what strategies or activities will be used to introduce each objective and how student learning will be assessed.

***NOTE: Component Area Option –**

- A. A minimum of 3 SCH must meet the definition and corresponding Core Objectives specified in one of the foundational component areas
- B. As an option for up to 3 semester credit hours of the Component Area Option, an institution may select course(s) that:
 - i. Meet(s) the definition specified for one or more of the foundational component areas; and
 - ii. Include(s) a minimum of three Core Objectives, including Critical Thinking Skills, Communication Skills, and one of the remaining Core Objectives of the institution's choice.

#	THECB CORE OBJECTIVE "ICO"	PROGRAM GOALS/OUTCOMES	COURSE LEARNING OUTCOMES	KEY IDENTIFIERS	LEARNING EXPERIENCE	ASSESSMENT
1	<p>Critical Thinking Skills - to include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information.</p> <p><i>Must be addressed in all core curriculum courses</i></p>		Use critical thinking and scientific problem-solving to make informed decisions in the laboratory.	Students will be performing laboratory experiments and solving problems resulting from the experiment and making decisions based on their results.	Answer specific questions on final exam and participate in discussion boards related to an assigned text chapter.	This core objective will be assessed by an interdepartmental assessment committee using the Critical Thinking rubric.
2	<p>Communication Skills - to include effective development, interpretation and expression of ideas through written, oral and visual communication.</p> <p><i>Must be addressed in all core</i></p>		Describe the characteristics of life.	Students will be able to demonstrate an understanding of the difference between the biotic and the abiotic world.	Answer specific questions on final exam and participate in discussion boards related to this topic.	This core objective will be assessed by an interdepartmental assessment committee using the Communication rubric.

	<i>curriculum courses</i>					
3	<p>Empirical and Quantitative Skills - to include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions</p> <p><i>Must be addressed in all Mathematic, Life and Physical Sciences, AND Social & Behavioral Sciences component area core curriculum courses. Optional for all other component areas.</i></p>		Identify the chemical structures, synthesis, and regulation of nucleic acids and proteins.	Students will perform biochemical testing of molecules in order to learn the properties of nucleic acids and proteins.	In lab students generate data which they then analyze and draw conclusions written on lab report.	This core objective will be assessed by an interdepartmental assessment committee using the Empirical and Quantitative Skills rubric.
4	<p>Teamwork - to include the ability to consider different points of view and to work effectively with others to support a shared purpose or goal.</p> <p><i>Must be addressed in all Communication, Life & Physical Sciences, and Creative Arts component area core curriculum courses. Optional for all other component areas.</i></p>		Compare and contrast the structures, reproduction, and characteristics of viruses, prokaryotic cells, and eukaryotic cells.	Students will work together to recognize differences in various cells and non-cellular agents (viruses) that affect cells.	Students will produce a written lab report that describes their conclusions.	This core objective will be assessed by an interdepartmental assessment committee using the Teamwork rubric.
5	<p>Social Responsibility: to include intercultural competence, knowledge</p>					

	<p>of civic responsibility, and the ability to engage effectively in regional, national, and global communities</p> <p><i>Must be addressed in all Language, Philosophy & Culture, Creative Arts, American History and Government/Political Science, and Social & Behavioral Sciences component area core curriculum courses. Optional for all other component areas.</i></p>					
6	<p>Personal Responsibility - to include the ability to connect choices, actions and consequences to ethical decision-making.</p> <p><i>Must be addressed in all Communication, Language, Philosophy & Culture, American History and Government/Political Science component area core curriculum courses. Optional for all other component areas.</i></p>					
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Critical Thinking Skills

To include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information.

Must be addressed in all core courses

Communication Skills

To include effective development, interpretation and expression of ideas through written, oral and visual communication.

Must be addressed in all core courses

Empirical and Quantitative Skills

To include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions.

Must be addressed in all core courses that satisfy the following requirements:

- Mathematics
- Life and Physical Sciences
- Social and Behavioral Sciences
- Some Component Area Options

Teamwork

To include the ability to consider different points of view and to work effectively with others to support a shared purpose or goal.

Must be addressed in all core courses that satisfy the following requirements:

- Communication
- Life and Physical Sciences
- Creative Arts
- Some Component Area Options

Social Responsibility

To include intercultural competence, knowledge of civic responsibility, and the ability to engage effectively in regional, national and global communities.

Must be addressed in all core courses that satisfy the following requirements:

- Language, Philosophy and Culture
- Creative Arts
- American History
- Government/Political Science
- Social and Behavioral Sciences
- Some Component Area Options

Personal Responsibility

To include the ability to connect choices, actions and consequences to ethical decision-making.

Must be addressed in all core courses that satisfy the following requirements:

- Communication
- Language, Philosophy and Culture
- American History
- Government/Political Science
- Some Component Area Options