

CORE CURRICULUM COMPONENT APPLICATION

CORE COMPONENT AREA	Life and Physical Sciences
COURSE TYPE	Existing Core
DEPARTMENT	Biology
COURSE RUBRIC & NUMBER	BIOL 1408
COURSE NAME	General Biology for Non-Science Majors I
CATALOG DESCRIPTION	This course is a survey of biology including molecular and cellular biology, genetics, DNA, evolution and ecology. The cellular and molecular basis of life will be emphasized. Current topics in biology and medicine will be discussed. Designed as a transferable lab science course for non-science majors. Lab fee required.
NUMBER OF SECTIONS OFFERED/FALL	6
NUMBER OF SECTIONS OFFERED/SPRING	4
EXTIMATED ANNUAL ENROLLMENT	275
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 (REQUEST FOR ADDITIONAL INFORMATION)	
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	Critical Thinking Skills - to include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information. <i>Must be addressed in all core curriculum courses</i>		Interpret results from cell physiology experiments involving movement across membranes, enzymes, photosynthesis, and cellular respiration.	Perform experiments related to cell physiology pertaining to movement of particles across membranes, enzymes, photosynthesis, and cellular respiration and analyze and evaluate that information to synthesize conclusions based on the data collected.	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	Communication Skills - to include effective development,		Distinguish between prokaryotic, eukaryotic, plant and animal cells, and identify major cell	Students will be competent in their knowledge of cell types and cell	Answer specific questions on final exam and participate in discussion boards	This core objective will be assessed by an interdepartmental assessment committee

	<p>interpretation and expression of ideas through written, oral and visual communication.</p> <p><i>Must be addressed in all core curriculum courses</i></p>		structures.	structures to the point of expression involving written, oral and visual communication.	related to an assigned text chapter.	using the Communication rubric.
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>		Be able to apply scientific reasoning to investigate questions, and utilize scientific tools such as microscopes and laboratory equipment to collect and analyze data.	Using numerical data, students will use critical thinking skills in the formation of conclusions based on the data provided.	In lab students generate numerical 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</i></p>		Interpret the results of karyotypes, pedigrees, and biotechnology experiments.	Student groups will perform laboratory experiments and interpret those results which include the following: karyotypes, pedigrees, and biotechnology experiments.	In lab students generate numerical 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 Teamwork rubric.

	<i>all other component areas.</i>					
5	<p>Social Responsibility: to include intercultural competence, knowledge 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</i></p>					

	<i>all other component areas.</i>					
7						
8						
9						
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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