



# Core Area Exemplary Educational Objectives

**Core Area: Natural Sciences**

*The objective* of the study of a natural sciences component of a core curriculum is to enable the student to understand, construct, and evaluate relationships in the natural sciences, and to enable the student to understand the bases for building and testing theories.

## LIST OF ALL COURSES RECOMMENDED AND IDENTIFIED COMPETENCIES

Competencies					Course Number	Course Title
1	2	3	4	5		
X	X	X	X		PHYS 1311	Stellar Astronomy
X	X	X	X		PHYS 1312	Solar System Astronomy
X	X	X	X		PHYS 1401	General College Physics I
X	X	X	X		PHYS 1402	General College Physics II
X	X	X	X		PHYS 1405	Conceptual Physics I
X	X	X	X		PHYS 1407	Conceptual Physics II
X	X	X	X		PHYS 2425	Engineering Physics I
X	X	X	X		PHYS 2426	Engineering Physics II

### EXEMPLARY EDUCATIONAL OBJECTIVES

**5 – To demonstrate** knowledge of the interdependence of science and technology and their influence on, and contribution to, modern culture.

**4 – To demonstrate** knowledge of the major issues and problems facing modern science, including issues that touch upon ethics, values, and public policies.

**3 – To identify** and recognize the differences among competing scientific theories.

**2 – To recognize** scientific and quantitative methods and the differences between these approaches and the other methods of inquiry and to communicate findings, analyses, and interpretation both orally and in writing.

**1 – To understand** and apply method and appropriate technology to the study of the natural science

Department Chair \_\_\_\_\_

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