

The Human Experiences and Endeavors Curriculum
Competency, Outcomes and Action Steps
Natural Sciences

Competency:
TCU graduates will be literate in the natural sciences.

Learning Outcome	Student Action Steps (examples)
Students will demonstrate a basic understanding of some of the methods of investigation in the natural sciences.	Students will explore the investigation methodologies and principles (e.g. laboratory experimentation, field study, modeling and simulation, etc.) appropriate to the natural science discipline. For each investigation procedure or principle, students will: determine its purpose, describe it, and compare and contrast it with alternative methodologies.
Students will demonstrate a basic understanding of some of the great ideas in the natural sciences.	Students will examine some of the major ideas appropriate to the area of study, including how such ideas resulted from a scientifically reasoned investigation. For each concept, principle, or theory, students will: describe it, review its history, determine its importance (including influences on other areas of study), review the evidence supporting it, and compare and contrast it with alternative concepts, principles, or theories.
Students will demonstrate a basic understanding of some of the relationships among the natural sciences, technology, and society.	Students will explore the relationships between science, technology, and society appropriate to the natural science discipline. Students will: describe the roles that each plays in the others' development, and identify the benefits and problems associated with each relationship.

Approved by Science and Engineering Faculty 2/04