

# AAD–Earth and Space Science

<b>Course Code(s):</b>	TBD
<b>Prerequisite(s):</b>	None
<b>Credit:</b>	1
<b>Grade Level:</b>	9-12
<b>Graduation Requirements:</b>	This course satisfies one of three science credit requirements for the alternate academic diploma
<b>Programs of Study and Sequence:</b>	This is a part of the science program of study.
<b>Teacher Endorsement(s):</b>	TBD

## Course Requirements

Earth's Place in the Universe (ESS1)	
AAD.ES.ESS1.1	Recognize the sun as a star and that stars change and have a life span.
AAD.ES.ESS1.2	Construct a model to demonstrate an understanding of the Milky Way as a galaxy composed of planets and stars and that it is only one galaxy within the universe.
AAD.ES.ESS1.3	Construct a model to demonstrate the changes of sunlight on the surface of the Earth's when the orbit and axis of rotation changes.
AAD.ES.ESS1.4	Compare and contrast objects within the solar system including sun, planets, satellites, and asteroids.
Earth's Systems (ESS2)	
AAD.ES.ESS2.1	Construct or use a model of the Earth's structures: a hot but solid inner core, a liquid outer core, solid mantle and crust with tectonic plates.
AAD.ES.ESS2.2	Recognize the Earth's system as dynamic with changes caused by tectonic events, ocean circulation, volcanic activity, glaciers, vegetation, and human activity.

ADD.ES.ESS2.3	Recognize the abundance of water of the Earth’s surface and the ability of water to absorb, store, and release energy; transmit sunlight; and dissolve and transport materials.
AAD.ES.ESS2.4	Use data, weather maps, and other scientific tools to predict weather conditions.
AAD.ES.ESS2.5	Recognize multiple sources of energy used within Tennessee.
AAD.ES.ESS2.6	Recognize that humans generate carbon dioxide, impacting the chemical makeup of the atmosphere, and discuss ways to reduce the carbon footprint created by an individual.
Earth and Human Activity (ESS3)	
AAD.ES.ESS3.1	Discuss the relationship between the geographic location of attainable resources and human society.
AAD.ES.ESS3.2	Compare and contrast the use of renewable (solar, wind and water power) and nonrenewable (coal and oil) energy sources.
AAD.ES.ESS3.3	Discuss the impact of natural disasters on individuals and society.
AAD.ES.ESS3.4	Identify scientific and technological contributions that are reducing the use of resources and/or the impact of pollution and waste.

## Standards Numbering Notes

The numbering is not exactly parallel to the state standards but is designed to create some consistency across disciplines for the special education teachers who may be teaching multiple subjects.

The following system was used to number the science standards:

AAD.BIO1.LS1.1

Alternate academic diploma (**AAD**) standards

Biology I (**BIO1**) is the course

Life Science 1 (**LS1**) is the first core idea in the life science progression

**1** is the standard number in the core idea (standards numbered consecutively within each cluster)