Associate in Astronomy

Specialization in Faith-Based Space Education and Public Outreach

HBI University

Course Duration: 2 years

Credit Hours: 75 hours (including 15 minor credit hours)

Program Description

The Associate in Astronomy program with a Specialization in Faith-Based Space Education and Public Outreach offers students a unique opportunity to explore the universe through scientific discovery and spiritual wonder. This program integrates the study of astronomy with faith-centered communication, allowing students to inspire curiosity and share the marvels of creation in community, church, and educational settings.

Students will study celestial phenomena, planetary science, and the history of space exploration while developing public speaking, teaching, and ministry skills for outreach programs, observatory events, and STEM ministries.

Graduates may pursue roles in science education, museum programming, public astronomy outreach, or continue toward a bachelor's degree in astronomy, science communication, or education.

General Education Courses (15 Credit Hours)

Course Code	Course Name	Credit Hours
GEN 101	English Composition I	3
GEN 102	English Composition II	3
GEN 103	College Algebra	3
GEN 104	Introduction to Psychology	3
GEN 105	Introduction to Sociology	3

Core Astronomy Courses (30 Credit Hours)

Course Code	Course Name	Credit Hours
AST 201	Introduction to Astronomy	3
AST 202	Solar System and Planetary Science	3

AST 203	Stars, Galaxies, and Cosmology	3
AST 204	Observational Astronomy and Telescopes	3
AST 205	Physics of Space and Astrobiology	3
AST 206	History of Astronomy and Space Discovery	3
AST 207	Astronomy Lab and Data Analysis	3
AST 208	Christian Perspectives on the Cosmos	3
AST 209	Science Education and Public Engagement	3
AST 210	Astronomy Capstone Project	3

Elective Courses (15 Credit Hours)

Course Code	Course Name	Credit Hours
AST 301	Planetarium Presentation and Program Design	3
AST 302	Faith-Based STEM Curriculum Development	3
AST 303	Astronomy in Christian Art and Literature	3
AST 304	Space Ethics and Exploration Policy	3
AST 305	Public Speaking for Science and Faith Audiences	3

Minor in Faith-Based Space Education and Public Outreach (15 Credit Hours)

Course Code Course Name Credit Hours

FSE 401	Theology of Creation and the Heavens	3
FSE 402	Designing Astronomy Programs for Youth Ministries	3
FSE 403	Astronomy and Apologetics: Bridging Faith and Science	3
FSE 404	Outreach Planning for Church and Community Events	3
FSE 405	Astronomy Missions and Evangelism Through Science	3

Capstone Project (3 Credit Hours)

The Capstone in Faith-Based Space Education and Public Outreach invites students to create a project that connects astronomical science with spiritual education. Sample projects include:

- Planning a church-hosted stargazing event and education night.
- Creating a youth curriculum that integrates space science and Scripture.
- Developing a multimedia presentation for Christian science festivals or planetariums.

Program Outcomes

Graduates of this program will:

- Understand fundamental astronomy principles and practices.
- Inspire others through science education and faith-based outreach.
- Communicate complex concepts in accessible and engaging ways.
- Integrate biblical worldview with scientific discovery.
- Serve as advocates for wonder, learning, and stewardship of creation.

Career Outcomes and Potential Pay Scale

Career Path Average Salary (Annual)

Astronomy Outreach Coordinator	\$45,000 - \$60,000
Planetarium Program Assistant	\$42,000 - \$58,000
STEM Ministry Leader	\$44,000 - \$61,000
Science Communicator (Faith-Based Organizations)	\$46,000 - \$64,000
Education Specialist (Museum or Observatory)	\$47,000 - \$63,000