Ph.D. in Astronomy,

Minor in Faith-Based Space Education and Public Outreach
HBI University
Course Duration: 3 years
Credit Hours: 105 (including minor)



Program Description

The Doctor of Philosophy (Ph.D.) in Astronomy at HBIU University is designed to prepare students for advanced research, leadership, and practical applications in the field of astronomy. This program covers both theoretical concepts and hands-on experiences, focusing on areas such as astrophysics, cosmology, planetary science, and observational astronomy. Students will explore topics like the formation and evolution of the universe, the behavior of celestial bodies, space exploration technologies, and the latest advancements in space observation techniques. Graduates will be equipped to contribute to academic research, space agencies, and private sector space ventures, advancing the understanding of the universe and developing innovative astronomical technologies.

The Minor in Faith-Based Space Education and Public Outreach specialization focuses on integrating faith-based values with space science education and public engagement. This specialization explores how faith communities can contribute to the understanding and dissemination of space science, fostering interest in astronomy through faith-driven initiatives. Topics include the ethical dimensions of

space exploration, the role of faith-based organizations in space advocacy, and using astronomy to inspire spiritual reflection and education. Students will gain expertise in creating educational programs and public outreach strategies that promote space science within faith-based communities and beyond.

Admissions Requirements

- Master's degree in a relevant field
- Minimum GPA of 3.0
- GRE scores (if applicable)
- Statement of Purpose (1,000-1,500 words) outlining research interests
- Three letters of recommendation
- Academic writing sample
- Curriculum Vitae (CV) or resume
- Interview with faculty (if required)

General Education Courses (30 Credit Hours)

Course Code	Course Name	Credit Hours
GEN 101	Critical Thinking and Writing	3
GEN 102	Research and Information Literacy	3
GEN 103	Ethics and Social Responsibility	3
GEN 104	Statistical Methods for Research	3
GEN 105	Leadership and Strategic Planning	3
GEN 106	Global Perspectives and Cultural Awareness	3
GEN 107	Philosophical Foundations of Inquiry	3
GEN 108	Technology and Data Analysis	3
GEN 109	Organizational Behavior and Change	3
GEN 110	Public Policy and Governance	3

Core Foundational Courses (23 Credit Hours)

Course Code	Course Name	Credit Hours

PH.D 701	Advanced Theories in the Field	3
PH.D 702	Applied Research Methods	3
PH.D 703	Leadership and Ethics	3
PH.D 704	Strategic Decision Making	3
PH.D 705	Policy and Governance	3
PH.D 706	Innovation in the Field	3
PH.D 707	Case Study Analysis	2
PH.D 708	Capstone in the Field	3

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

Course Code	Course Name	Credit Hours
MINO 701	Introduction to the Minor Field	3
MINO 702	Ethics and Best Practices	3
MINO 703	Case Studies and Applications	3
MINO 704	Policy and Governance in the Minor	3
MINO 705	Capstone Project in the Minor	3

Program Outcomes

• Conduct advanced research in ph.d. in astronomy.
• Develop expertise in minor in faith-based space education and public outreach and its applications.
• Lead policy, research, and practical implementation in the field.
• Contribute to academic and industry advancements.

Career Outcomes and Potential Pay Scale

Career Path	Average Salary (Annual)
University Professor	$80,000 - $140,000
Policy Analyst	$85,000 - $135,000
Research Director	$90,000 - $150,000
Government Advisor	$100,000 - $160,000
Non-Profit Executive	$75,000 - $140,000