Associate in Renewable Energy

Specialization in Faith-Based Sustainability and Green Technology

HBI University

Course Duration: 2 years

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

Program Description

The Associate in Renewable Energy program with a Specialization in Faith-Based Sustainability and Green Technology equips students with the knowledge and skills to pursue careers in clean energy systems, sustainable practices, and environmental stewardship. Rooted in a biblical understanding of creation care and responsible innovation, students are trained to serve communities while honoring God's call to protect the Earth.

Students will study solar, wind, hydro, and bioenergy technologies alongside courses in energy efficiency, project planning, and green innovation. The specialization emphasizes applying these technologies in faith-based contexts to empower underserved populations and support creation restoration.

Graduates may pursue careers in renewable energy, sustainability consulting, nonprofit clean-tech projects, or continue into engineering or environmental science programs.

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 Renewable Energy Courses (30 Credit Hours)

Course Code	Course Name	Credit Hours
REN 201	Introduction to Renewable Energy	3
REN 202	Solar Power Technologies	3

REN 203	Wind and Hydro Energy Systems	3
REN 204	Energy Storage and Smart Grids	3
REN 205	Energy Efficiency and Green Design	3
REN 206	Sustainable Infrastructure Planning	3
REN 207	Environmental Policy and Energy Ethics	3
REN 208	Innovation in Green Technology	3
REN 209	Applied Research in Renewable Projects	3
REN 210	Renewable Energy Practicum	3

Elective Courses (15 Credit Hours)

Course Code	Course Name	Credit Hours
REN 301	Renewable Energy in Developing Nations	3
REN 302	Climate Justice and Global Missions	3
REN 303	Circular Economy and Product Stewardship	3
REN 304	Creation Care and Theology of Ecology	3
REN 305	Faith-Based Sustainability Leadership	3

Minor in Faith-Based Sustainability and Green Technology (15 Credit Hours)

Course Code	Course Name	Credit Hours

FGT 401	Theology of Creation and Environmental Justice	3
FGT 402	Stewardship Practices for Churches and Communities	3
FGT 403	Green Innovation and Faith-Based Entrepreneurship	3
FGT 404	Ethics of Resource Use and Renewable Implementation	3
FGT 405	Missions and Sustainability Integration	3

Capstone Project (3 Credit Hours)

The Capstone in Faith-Based Sustainability and Green Technology gives students the opportunity to develop and present a sustainability project or plan for a faith-based organization. Project options include:

- Designing a solar-powered solution for a church or mission center.

- Conducting an energy audit and efficiency plan for a nonprofit.

- Drafting a proposal for sustainable ministry or campus transformation.

Program Outcomes

- Apply technical knowledge of renewable energy systems to real-world applications.

- Integrate Christian ethics into environmental and technological work.

- Support churches and ministries in sustainable transitions.

- Analyze and design systems that serve people and protect the planet.

- Lead with integrity in green innovation and ecological justice initiatives.

Career Outcomes and Potential Pay Scale

Career Path	Average Salary (Annual)
Renewable Energy Technician	$48,000 - $66,000
Sustainability Program Assistant (Faith-Based Org)	$45,000 - $62,000
Environmental Ministry Coordinator	$44,000 - $60,000

Energy Efficiency Consultant	$47,000 - $65,000
Faith-Based Sustainability Project Manager	$49,000 - $68,000