

Bachelor in Renewable Energy - Minor in Faith-Based Sustainability and Green Technology

HBI University

Course Duration: 3 years

Credit Hours: 135 (including minor)



Program Description

The Bachelor in Renewable Energy at HBI University provides students with the knowledge and technical skills to develop, manage, and implement sustainable energy solutions. This program prepares students for careers in energy engineering, environmental consulting, and sustainable infrastructure development.

The Minor in Faith-Based Sustainability and Green Technology enhances this degree by integrating ethical stewardship and faith-based perspectives into renewable energy solutions. Students will explore how faith-driven initiatives can contribute to sustainability, climate resilience, and environmental advocacy.

Admissions Requirements

- High school diploma or equivalent
- Minimum GPA of 2.5
- Personal statement outlining career goals and interest in renewable energy
- Two letters of recommendation
- Resume (if applicable)
- SAT/ACT scores (if applicable)

General Education Courses (30 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 Philosophy	3
GEN 105	Introduction to World Religions	3
GEN 106	Public Speaking and Communication	3
GEN 107	Ethics and Critical Thinking	3
GEN 108	Research Methods	3
GEN 109	Leadership and Team Development	3
GEN 110	Cross-Cultural Communication	3

Core Renewable Energy Courses (45 Credit Hours)

Course Code	Course Name	Credit Hours
REN 201	Introduction to Renewable Energy	3
REN 202	Solar Energy Systems and Applications	3
REN 203	Wind Energy and Turbine Technology	3
REN 204	Hydroelectric and Marine Energy Systems	3
REN 205	Bioenergy and Biomass Technologies	3
REN 206	Geothermal Energy and Heat Transfer	3
REN 207	Energy Storage and Battery Technologies	3
REN 208	Smart Grids and Energy Distribution	3
REN 209	Sustainable Building Design and Energy Efficiency	3
REN 210	Environmental Policy and Renewable Energy Regulation	3
REN 211	Green Economics and Energy Markets	3
REN 212	Climate Change Mitigation and Adaptation	3
REN 213	Project Management for Renewable Energy Systems	3

REN 214	Renewable Energy Innovation and Entrepreneurship	3
REN 215	Capstone: Renewable Energy Project Implementation	3

Elective Courses (15 Credit Hours)

Course Code	Course Name	Credit Hours
ELEC 301	Energy Justice and Community Empowerment	3
ELEC 302	Circular Economy and Waste Reduction	3
ELEC 303	Green Technology for Developing Nations	3
ELEC 304	Faith-Based Carbon Reduction Initiatives	3
ELEC 305	Ecological Theology and Sustainable Living	3

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

Course Code	Course Name	Credit Hours
FSG 401	Faith and Environmental Stewardship	3
FSG 402	Christian Ethics in Sustainable Development	3
FSG 403	Renewable Energy Solutions for Faith-Based Organizations	3
FSG 404	Sustainable Agriculture and Food Security	3
FSG 405	Faith-Based Advocacy for Climate Justice	3

Capstone Project (15 Credit Hours)

The capstone project in Renewable Energy allows students to apply engineering, policy analysis, and faith-based sustainability principles to real-world energy challenges. Students will:

- Develop a renewable energy solution for a nonprofit or faith-based organization.
- Conduct research on faith-based climate action and sustainability.

- Create a business plan for a green technology startup.
- Present their final project to faculty and industry experts.

Program Outcomes

Graduates of this program will:

- Master renewable energy technologies, project management, and sustainability strategies.
- Integrate faith-based perspectives into environmental stewardship and climate advocacy.
- Develop clean energy solutions for faith-based and nonprofit organizations.
- Utilize policy analysis to support ethical and sustainable energy practices.
- Lead initiatives that promote energy equity, sustainability, and global impact.

Career Outcomes and Potential Pay Scale

Career Path	Average Salary (Annual)
Renewable Energy Engineer	\$70,000 - \$130,000
Faith-Based Sustainability Consultant	\$55,000 - \$115,000
Environmental Policy Analyst	\$60,000 - \$120,000
Sustainable Energy Project Manager	\$65,000 - \$125,000
Green Technology Entrepreneur	\$70,000 - \$140,000