

Master in Statistics - Minor in Faith-Based Research and Policy Analysis

HBI University

Course Duration: 2 years

Credit Hours: 69 (including 15 credit hours for minor)



Program Description

The Master in Statistics at HBI University is designed to equip students with advanced statistical techniques, data modeling, and research methodologies applicable to industry, government, academia, and nonprofit sectors. This program integrates probability theory, statistical inference, and computational data analysis to prepare graduates for careers in data science, market research, policy analysis, and applied statistics.

The Minor in Faith-Based Research and Policy Analysis offers a specialized focus on using statistical research for ethical decision-making, faith-based policy development, and community impact. Students will explore the role of data-driven insights in shaping religious policies, evaluating social programs, and guiding faith-based organizations.

This 69-credit hour program includes 30 credit hours of foundational statistical courses, 24 credit hours of core quantitative and research training, 15 credit hours in Faith-Based Research and Policy Analysis, elective coursework, a supervised practicum, and a research-based master's thesis or capstone project.

Admissions Requirements

- Bachelor's degree in statistics, mathematics, economics, or a related field
- Minimum GPA of 3.0
- Two letters of recommendation from faculty or professionals in statistics, data science, or policy research
- Statement of purpose outlining career goals in statistical research and faith-based policy analysis
- Research proposal or portfolio submission (optional)
- Interview with faculty committee (if required)

Practicum Requirement

Students must complete a 300-hour supervised practicum in research institutions, nonprofit policy analysis teams, government statistical agencies, or faith-based research organizations. Practicum placements include Christian policy think tanks, ethical AI organizations, and nonprofit impact evaluation teams.

Master's Thesis / Capstone Project

Students must complete either a research-based master's thesis on statistical methods in public policy, ethical data modeling, or faith-based decision science, or develop a capstone project using statistical modeling to analyze a faith-driven social impact issue.

Program Outcomes

Graduates of this program will be able to:

- Use advanced statistical techniques for research in social sciences, economics, and faith-based policy.
- Analyze large-scale datasets to inform decision-making for faith-based organizations and nonprofit initiatives.
- Develop ethical frameworks for using statistics in religious and social justice applications.
- Conduct impact evaluations and effectiveness studies for community development programs.
- Apply predictive modeling to religious studies, humanitarian efforts, and policy recommendations.

Career Outcomes & Potential Salary

- Data Scientist & Statistician (Faith-Based & Government Research) – \$85,000 - \$170,000
- Public Policy Analyst (Faith-Based & Nonprofit Sector) – \$75,000 - \$150,000
- Quantitative Researcher for Christian Organizations – \$70,000 - \$140,000
- Market Research Analyst for Religious Media & Outreach – \$65,000 - \$135,000
- Director of Faith-Based Research & Impact Evaluation – \$90,000 - \$185,000

Advocacy and Professional Development

Students are encouraged to join organizations such as:

- American Statistical Association (ASA)
- International Association for Statistical Computing (IASC)
- Christian Policy Research Network
- Faith-Based Data & Analytics Association

Participation in faith-based research summits, policy evaluation conferences, and nonprofit data analysis workshops is highly recommended.

Course Breakdown (Total: 69 Credit Hours)

A. Foundational Statistical Courses (30 Credit Hours)

Course Code	Course Name	Credit Hours
STAT-101	Probability Theory & Mathematical Statistics	3

STAT-102	Regression Analysis & Predictive Modeling	3
STAT-103	Bayesian Statistics & Decision Science	3
STAT-104	Multivariate Data Analysis & Visualization	3
STAT-105	Experimental Design & Causal Inference	3
STAT-106	Time Series Analysis & Forecasting	3
STAT-107	Statistical Computing & Programming (R, Python)	3
STAT-108	Research Methods in Statistical Analysis	3
STAT-109	Survey Methodology & Public Opinion Research	3
STAT-110	Data Ethics & Faith-Based Policy Analytics	3

B. Core Quantitative and Research Training (24 Credit Hours)

Course Code	Course Name	Credit Hours
STAT-201	Big Data & Statistical Learning in Policy	3
STAT-202	Social Network Analysis & Religious Demographics	3
STAT-203	Ethical Machine Learning & AI for Faith-Based Research	3
STAT-204	Data-Driven Decision Making in Faith-Based Leadership	3
STAT-205	Evaluating Social Justice & Community Impact with Statistics	3
STAT-206	Church Growth Analytics & Membership Forecasting	3
STAT-207	Advanced Topics in Statistical Inference	3
STAT-208	Supervised Statistical Analysis Practicum	3

C. Faith-Based Research and Policy Analysis Minor (15 Credit Hours)

Course Code	Course Name	Credit Hours
FBPA-301	Christian Perspectives on Data & Governance	3
FBPA-302	Ethical Quantitative Methods in Religious Studies	3

FBPA-303	Data Science for Faith-Based Social Policy	3
FBPA-304	Statistical Applications in Christian Economic & Mission Work	3
FBPA-305	Evidence-Based Decision Making for Church Leadership	3