

Bachelor of Science in Information Technology

Find your path and secure your career in one of the fastest growing industries in the U.S.



The Bachelor of Science in Information Technology (BSIT) program offered by Westcliff University is an interdisciplinary program from a holistic perspective, with an emphasis on information technology. The program is designed to provide pathways for students who want to pursue careers in the growing field of Information Technology. The students pursuing this program will gain the necessary skills to solve challenges through data analysis and the use of Information Technology.

BSIT Program Overview

Required Courses

In addition to completing 30 credits of General Education and 30 credits of Business, students must also complete 48 credits of IT core and 12 credits of IT Electives:

CORE REQUIREMENTS (48 CREDIT HOURS)

- BSIT 315 Information Technology Essentials
- BSIT 320 Introduction to Statistical Analysis
- BSIT 325 Applied Statistics for Optimization
- BSIT 330 Discrete Mathematics
- BSIT 335 Web Page Design and Development
- BSIT 340 Data Programming Concepts
- BSIT 345 Data Programming Languages
- BSIT 350 Database Design & Management Systems
- BSIT 355 Technical Writing and Communication
- BSIT 360 Introduction to Data Communication Networks
- BSIT 365 Computer Networking Concepts, Admin & Security
- BSIT 370 Business Intelligence Tools & Technologies
- BSIT 375 Knowledge Discovery and Data Science
- BSIT 380 Big Data Analytics
- BSIT 385 Data Visualization
- BSIT 390 Capstone Project

Total **120 credit hours**

Transfer credit hours accepted based on approval.

BSIT ELECTIVES (12 CREDIT HOURS)

CHOOSE 4 COURSES FROM THE 10

- BSIT 327 Computer Hardware Fundamentals
- BSIT 328 System Analysis and Design
- BSIT 329 Artificial Intelligence
- BSIT 332 Software Quality Assurance
- BSIT 333 Mobile Computing and Programming
- BSIT 341 Calculus I
- BSIT 342 Linear Algebra for Data Science
- BSIT 343 Advanced Programming using Python/Java
- BSIT 344 Advanced Web Programming and App. Development
- BSIT 348 Cloud Computing

Key Learning Outcomes

- Apply, configure, and manage IT technologies
- Identify and gather user requirements to design user-friendly interfaces
- Utilize data to help businesses gain insights to make better decisions
- Apply IT concepts and strategies to solve real-world problem
- Evaluate current and emerging technologies

Career Opportunities

- Network Administrators
- Information Technology (IT) Manager
- Computer Network Architect
- Business Intelligence Analyst
- Web Developer

Why Westcliff University for BSIT?



General Education

The General Education courses at Westcliff are structured to provide a coherent, integrated introduction to the breadth of knowledge students will need to help them develop intellectual skills that will enhance their professional, civic, and personal life for years to come. Students will learn how to analyze the world around them from different perspectives, how to communicate their ideas and understand the ideas of others, how to solve problems, and how to apply their knowledge to real-world projects.

Westcliff University offers 20 General Education courses, which students may take to fulfill the 60 credit hour requirement. Should students wish to transfer in General Education credits from another accredited school, the following requirements must be met:

Arts and Humanities

2 equivalent courses (6 credits hours) required

- ART 100 Art History
- HUM 165 Human Geography
- HUM 170 Human Civilizations
- HUM 180 World Religions

Communications

1 equivalent course (3 credits hours) required

- COM 115 Introduction to Communication
- PHL 190 Critical Thinking and Problem Solving

English

2 equivalent courses (6 credits hours) required

- ENG 110 Academic English
- ENG 120 English Composition
- LIT 121 World Literature

Math

1 equivalent course (3 credits hours) required

- MAT 135 College Algebra

Natural Sciences

1 equivalent course (3 credits hours) required

- BIO 260 General Biology
- SCI 275 Introduction to Ecology
- SCI 280 Environmental Science
- GEO 290 Physical Geography

Social and Behavioral Sciences

3 equivalent courses (9 credits hours) required

- HIS 141 World History
- POL 205 International Relations
- POL 210 American Government
- POL 220 World Politics
- PSY 235 Introduction to Psychology
- PSY 240 Human Development
- SOC 245 Introduction to Sociology

