# **Business Information Systems**

# Get to Know BUSINESS INFORMATION SYSTEMS

The world is changing fast — and at the heart of it all is information. From smart apps to global cloud systems, businesses run on data, technology, and intelligent decision-making.

A degree in Business Information Systems prepares you to:

- Bridge the gap between business and technology
- Manage the systems behind automation, analytics, and digital transformation
- Lead innovation in any industry, from healthcare to finance to manufacturing



Information Systems professionals are in high demand to build, integrate, secure, and guide the very technologies driving the future.

This degree is not just about coding or databases — it teaches you how technology connects to business strategy, human behavior, and operational efficiency. Organizations need professionals who understand both the technical tools and the business problems.

With a BIS degree, you'll be prepared to manage the data pipelines AI depends on, evaluate the systems it integrates with, and lead the digital transformations that are reshaping every industry.

#### Hands-On Experience from Day One

BIS students apply their skills in real-world projects such as:

- Designing dynamic websites and full-stack solutions (BIS 1523, 2523)
- Conducting security reviews for local and global businesses (BIS 4113)
- Exploring the role of AI and emerging tech in business strategy (BIS 4763)

#### **Certifications & Career Readiness:**

Students also gain access to LinkedIn Learning, where they can earn professional certifications in tools and topics like SQL, Python, cloud systems, cybersecurity, and data visualization. These certifications complement coursework and enhance job market competitiveness.

This is a degree with longevity, flexibility, and leadership opportunity—preparing students to shape systems, lead strategy, and build what's next.

### Flexible CHOICES

Business Information Systems students at Mississippi State University can tailor their degree to broaden career opportunities by combining it with complementary majors or minors in the College of Business. Pairing BIS with a minor in **Management** strengthens leadership, communication, and team coordination for overseeing IT projects and enterprise systems. A focus in **Entrepreneurship** equips students to launch tech ventures or lead innovation within existing organizations. A minor in **Marketing** builds skills in digital campaigns and customer analytics, while **Finance** sharpens insight into investment tools, budgeting, and the financial side of tech adoption. A minor in **Business Analytics** enhances data interpretation, statistical modeling, and data-driven decision-making—skills highly valued in today's digital economy. **International Business** Concentration builds an understanding of how global systems and data strategies drive innovation and competitiveness worldwide. These combinations allow students to customize their education for their unique interests and goals.

### Course HIGHLIGHTS

The Business Information Systems program at Mississippi State University blends technology with business strategy, offering a diverse curriculum that equips students to lead digital transformation. Courses cover topics such as database design, systems analysis, business process modeling, cybersecurity, and emerging technologies. Students explore how organizations collect, manage, and protect information — and how to make data-driven decisions that align with business goals. Special topics like AI in business, web development, and enterprise systems ensure that students are prepared not only for today's tech landscape but also for tomorrow's innovations. The curriculum balances analytical rigor, technical skills, and strategic thinking, preparing graduates for a wide range of careers across industries.

### **Degree OPTIONS**

Bachelor of Business Administration in Business Information Systems

# Minor and Concentration OPTIONS

**Popular Minors:** Management, Entrepreneurship, Marketing, Finance, and Business Analytics

**Concentrations:** International Business

#### Thrive in FIVE

The BIS major is part of the Thrive in Five program – An accelerated pathway that helps high-achieving students earn both a bachelor's and master's degree in five years, with graduate assistantships available for qualified students

# Business Information Systems MAJOR MAP

MISSISSIPPI STATE
UNIVERSITY

COLLEGE OF BUSINESS

Bachelor in Business Administration in Business Information Systems

	I 1 <sup>st</sup> YEAR	I 2 <sup>ND</sup> YEAR	I 3 <sup>RD</sup> YEAR	I 4 <sup>™</sup> YEAR	
GET THE COURSES YOU NEED	Take courses BIS 1012, BIS 1523, EN 1103, EN 1113, MA 1313, MA 1613	Take courses ACC 2013, ACC 2023, BQA 2113, BL 2413, EC 2113, EC 2123, BIS 2523	Take courses BIS 3233, BQA 3123, BIS 3523, MGT 3213, FIN 3123, MKT 3013, SCL 3323, MGT 3113, BIS 3753	Take courses BIS 4753, BIS 4763, BIS Electives, BUS 4853, Computer-related Electives	Knowledge & Workplace Skills  Your time in the Mississippi State University Business Information Systems program will equip you with valuable skills to boost your employability, including:  Proficiency in database management, systems analysis, and business intelligence tools  Understanding of IT infrastructure, including cloud computing, cybersecurity, and risk management  Experience with software development, including frontend and back-end technologies  Knowledge of programming languages (Python, SQL, JavaScript) for business applications  Ability to analyze and visualize data for business decision-making  Development and optimization of enterprise systems, including ERP and CRM solutions  Familiarity with user interface and user experience (UI/UX) design principles  Insight into industrial automation, process improvement, and systems integration  Knowledge of regulatory frameworks such as data privacy laws  Critical thinking and analytical problem- solving across business and technical challenges  Collaboration and communication skills for cross-functional project teams  Leadership and project management skills in IT and digital transformation initiatives
GET RELEVANT EXPERIENCE	Join clubs like BIS Club or tech-related student organizations Explore MSU Career Center events & workshops (Kimberly Jackson is the BIS liaison) Attend information sessions hosted by employees and IT professionals	Apply for summer internships in IT, systems analysis, or support roles  Consider entrepreneurial opportunities via programs like VentureCatalyst offered by the E-Center  Get involved with the BIS Club or consider other clubs	Participate in on-campus recruiting for summer  Apply for research positions  Seek leadership roles in extracurricular activities  Meet with the Employment Outreach & Career Development Coordinator	Assess where you are lacking experience and fill in the gaps with volunteering, clubs, or internships  Meet with the Employment Outreach & Career Development Coordinator	
GET ENGAGED WITH THE COMMUNITY	Volunteer on or off campus with different community organizations such as Habitat for Humanity and Bulldog Bash	Participate in student-led technology projects Attend networking events Register for the Bulldog Mentor Program to connect with MSU alumni	Attend alumni networking events and company info sessions  Use the Bulldog Mentor Program to network with alumni in your target field	Join IS LinkedIn groups like Technology Professionals Consider joining professional associations ISACA and CompTIA	
GET ENGAGED GLOBALLY	Attend Global Game Changers information sessions	Attend Global Game Changers information sessions Start planning for a study abroad experience (summer or junior year)	Participate in study abroad (e.g., Global Game Changers)	Participate in study abroad (e.g., Global Game Changers)  Consider certifications with international recognition like Scrum, AWS, Google IT Certs, etc.	
GET CAREER READY	Visit the Career Center and explore your interests Attend Career Fairs Connect with juniors/seniors majoring in BIS	Meet with Career Center to refine your resume and LinkedIn Practice interview skills and explore internship postings on Connections	Search and apply for summer internships through on-campus recruiting  Attend Career Fairs and Employer Spotlights  Begin researching full-time job options and graduate schools	Get help from the Career Center with job searching, resumes, interview skills, graduate school applications, etc.  Attend Career Fairs and Employer Spotlights	

# **Business Information Systems**

## **ADDITIONAL OPPORTUNITIES**



### **Career POSSIBILITIES**

Graduates of the Business Information Systems program at Mississippi State University can pursue careers in:

- IT Specialist
- IT Application Specialist
- Systems Administrator
- Windows Database Administrator
- Web Developer
- · Cloud Engineer
- · Technical Support Analyst
- Business Analyst
- Senior Analyst, Merchandising
- Narrative Intelligence Specialist
- Data Analyst
- Finanical Service Professional
- Field Service Engineer
- Technical Implementation Analyst
- Account Service Representative

### **Major Hiring FIRMS**

- BlueCross and BlueShield of MS •
- Butler Snow LLP
- Camgian
- Core Technologies
- · C Spire
- Dillard's Inc
- EdgeTheory
- FedEx
- Hyperion Technology Group, Inc •
- International Paper
- Majestic Medical Solutions

- Mississippi Department of Technology Services
- Mississippi State University
- PACCAR Engine Company
- Taylor Machine Works
- The Peoples Bank
- ΤΙΔ Δ
- Tower Loan
- Volvo Financial Services
- Wal-Mart
- · Wildlife Dominion Management

### **Placement STATS**

 79% of Information Systems graduates secure employment or further education after graduation

# **Experiential Learning**

### **OPPORTUNITIES**

- · Full-stack web development
- Computer Programming
- Database Development Life Cycle Data Management
- · Al-Assisted Business Planning
- Industry Techology Reports
- API Integration
- Data analytics
- MySQL Workbench
- SQL syntax
- RStudio analytics
- COBOL programs
- Shiny App in R

### Student ORGANIZATIONS

- Business Information Systems Club
  - The Business Information Systems (BIS) Club keeps students connected to the latest trends in management information systems through guest speakers, hands-on field trips, and fun networking events.

### **INTERNSHIPS**

- · BlueCross and BlueShield of MS
- Dillard's
- International Paper
- PACCAR Engine Company
- Tyson Foods



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