

Business Course Name	Faculty Qualifications Needed	Related Disciplines	Acceptable Alternative Qualifications
BISE 3150 Business Communications	Earned Master's or Doctorate degree in Business Information Systems in the teaching discipline; or Master's or Doctorate degree with a concentration in the teaching discipline with at least 18 graduate semester hours in the teaching discipline.	Organizational Communication, Business Writing, Corporate/Business Communications, Business Administration	Significant professional experience in business communications, including experience in report writing, business presentations, and organizational communication within business environments. Relevant certifications in business communication or organizational communication, such as Certified Professional in Business Communication (CPBC) or equivalent certifications, will also be considered.
BISE 3350 Business Research & Report Writing	Earned Master's or Doctorate degree in Business, Information Systems in the teaching discipline; or Master's or Doctorate degree with a concentration in the teaching discipline with at least 18 graduate semester hours in the teaching discipline.	Business Research, Communication, Writing, Marketing, Business Management, Business Administration	Significant professional experience in business research, including the preparation of reports, analysis, and presenting business data in professional settings. Relevant professional certifications in business communication, business writing, or research, along with notable contributions in the field, will also be considered.
BISE 3400 Desktop Presentation Tools	Earned Master's or Doctorate degree in Business Information Systems in the teaching discipline; or Master's or Doctorate degree with a concentration in the teaching discipline with at least 18 graduate semester hours in the teaching discipline.	Information Technology, Graphic Design, Multimedia, Visual Communications, Business Administration	Significant professional experience in desktop publishing, multimedia production, or visual communications. Relevant professional licensure, certifications, and industry-specific experience will also be considered.
BISE 4000 Information and Media Management	Earned Master's or Doctorate degree in Business Information Systems in the teaching discipline; or Master's or Doctorate degree with a concentration in the teaching discipline with at least 18 graduate semester hours in the teaching discipline.	Media Management, Information Technology, Business Communication, Business Administration	Significant professional experience in information and media management, including roles in organizational information management, media resource management, or related business operations. Relevant professional licensure, certifications, and significant contributions to media management will also be considered.
BISE 4300 Administrative Office Management	Earned Master's or Doctorate degree in Business Information Systems or Business Administration in the teaching discipline; or Master's or Doctorate degree with a concentration in the teaching discipline with at least 18 graduate semester hours in the teaching discipline.	Office Management, Organizational Management, Management Studies	Significant professional experience in administrative office management, including roles in office administration, office systems management, and organizational procedure development. Relevant professional licensure, certifications, and significant contributions in office management practices will also be considered.
BISI 2150 Microcomputer Applications	Earned Master's or Doctorate degree in Business Information Systems in the teaching discipline; or Master's or Doctorate degree with a concentration in the teaching discipline with at least 18 graduate semester hours in the teaching discipline.	Information Systems, Computer Science, Management Information Systems, Data Management	Significant professional experience in the application of microcomputer systems in business or office environments, including hands-on experience with software like word processing, spreadsheet, database, and internet tools. Relevant certifications and demonstrated proficiency in the use of business software applications will also be considered.
BISI 3160 Business Application Development	Earned Master's or Doctorate degree in Business Information Systems in the teaching discipline; or Master's or Doctorate degree with a concentration in the teaching discipline with at least 18 graduate semester hours in the teaching discipline.	Computer Science, Information Systems, Software Engineering, Computer Programming	Significant professional experience in business application development, including hands-on experience with procedural and object-oriented programming languages (e.g., Python, Java, C#). Certifications in relevant programming languages, software development, or application development tools will also be considered.
BISI 3230 Management Information Systems	Earned Master's or Doctorate degree in Business Information Systems in the teaching discipline; or Master's or Doctorate degree with a concentration in the teaching discipline with at least 18 graduate semester hours in the teaching discipline.	Information Systems, Computer Science, Management Information Systems, Business Technology	Significant professional experience in managing or implementing information systems in business settings. Practical experience with various information systems, networks, and business technologies, as well as certifications in relevant fields such as IT management, database administration, or network security, will also be considered.
BISI 3260 Object-Oriented Programming	Earned Master's or Doctorate degree in Business Information Systems or Computer Science in the teaching discipline; or Master's or Doctorate degree with at least 18 graduate semester hours in the teaching discipline.	Information Systems, Software Engineering, Object-Oriented Programming	Significant professional experience in object-oriented programming, including practical experience with programming languages such as Python, Java, C#, or C++. Relevant professional certifications in software development, programming, or system design will also be considered.

BISI 3360 Information Technology and Cloud Computing	Earned Master's or Doctorate degree in Information Technology, Computer Science, or Information Systems, in the teaching discipline; or Master's or Doctorate degree with a concentration in the teaching discipline with at least 18 graduate semester hours in the teaching discipline.	Information Technology, Computer Science, Information Systems, Cloud Computing, Networking, Systems Administration	Significant professional experience in information technology, cloud computing, or systems administration, including hands-on experience with cloud platforms (e.g., AWS, Azure, Google Cloud) and system hardware. Relevant professional certifications, such as cloud certifications or IT infrastructure management, will also be considered.
BISI 3500 Data Mining	Earned Master's or Doctorate degree in Data Science, or Business Information Systems in the teaching discipline; or Master's or Doctorate degree with at least 18 graduate semester hours in the teaching discipline.	Computer Science, Information Systems, Statistics, Business Analytics	Significant professional experience in data mining, including hands-on experience with predictive and descriptive modeling, problem identification, and data preparation. Relevant professional certifications in data science, machine learning, or business analytics will also be considered.
BISI 3610 Introduction to Relational Databases	Earned Master's or Doctorate degree in Business Information Systems in the teaching discipline; or Master's or Doctorate degree with a concentration in the teaching discipline with at least 18 graduate semester hours in the teaching discipline.	Computer Science, Information Systems, Database Management,	Significant professional experience in relational database design and management, including hands-on experience with database software such as MySQL, SQL Server, or Oracle. Relevant professional certifications in database administration or database management systems will also be considered.
BISI 3620 Relational Data Administration	Earned Master's or Doctorate degree in in Business Information Systems in the teaching discipline in the teaching discipline; or Master's or Doctorate degree with a concentration in the teaching discipline with at least 18 graduate semester hours in the teaching discipline.	Computer Science, Information Systems, Database Administration, Database Management	Significant professional experience in database administration, including experience with creating database objects, performing backup and recovery, and monitoring database performance. Relevant professional certifications such as Oracle Certified Professional (OCP) or Microsoft Certified Database Administrator (MCDBA) will also be considered.
BISI 4150 Database Systems	Earned Master's or Doctorate degree in Business Information Systems or Computer Science in the teaching discipline; or Master's or Doctorate degree with a concentration in the teaching discipline with at least 18 graduate semester hours in the teaching discipline.	Computer Science, Information Systems, Database Management, Data Analytics	Significant professional experience in database systems, including expertise in database models, SQL, Entity-Relationship modeling, and database normalization. Hands-on experience in database design and implementation, as well as relevant certifications in database technologies (e.g., Oracle, Microsoft SQL Server), will also be considered.
BISI 4230 Analysis, Design, and Implementation	Earned Master's or Doctorate degree in Business Information Systems or Computer Science in the teaching discipline; or Master's or Doctorate degree with a concentration in the teaching discipline with at least 18 graduate semester hours in the teaching discipline.	Information Systems, Software Engineering, Systems Analysis	Significant professional experience in system analysis, design, and implementation, including familiarity with various System Development Life Cycles (SDLCs). Practical experience in applying SDLC methodologies to real-world projects, as well as relevant certifications, professional licenses, and high-impact journal and conference publications in the field, will also be considered.
BISI 4240 End-User Computing Development	Earned Master's or Doctorate degree in Business Information Systems or Computer Science in the teaching discipline; or Master's or Doctorate degree with a concentration in the teaching discipline with at least 18 graduate semester hours in the teaching discipline.	Information Systems, Business Administration, IT Project Management, Business Information Systems	Significant professional experience in the application of information technology within organizations, including project management, technology evaluation, selection, acquisition, and deployment. Practical experience in managing business processes and integrating technology into the workplace, as well as relevant certifications, professional licenses, and high-impact journal and conference publications, will also be considered.
BISI 4250 Decision Support Systems	Earned Master's or Doctorate degree in Business Information Systems or Computer Science in the teaching discipline; or Master's or Doctorate degree with a concentration in the teaching discipline with at least 18 graduate semester hours in the teaching discipline.	Information Systems, Computer Science, Business Administration, Decision Support Systems, Business Analytics, Data Management	Significant professional experience in the development and use of decision support systems (DSS) in organizations, including expertise in strategic management decision-making and the application of DSS tools. Experience with Expert Systems, Executive Information Systems, Data Warehousing, Data Visualization, and Group Decision Support Systems, as well as relevant certifications, professional licenses, and high-impact journal and conference publications, will also be considered.

BISI 4260 Training Strategies for BIS Professionals	Earned Master's or Doctorate degree in Business Information Systems in the teaching discipline; or Master's or Doctorate degree with a concentration in the teaching discipline with at least 18 graduate semester hours in the teaching discipline.	Information Systems, Business Education, Training and Development	Significant professional experience in training and development, particularly in providing information systems training for adult learners. Practical experience in needs analysis, curriculum development, and delivering technical training, as well as relevant certifications, professional licenses, and high-impact journal and conference publications, will also be considered.
BISI 4300 Business Telecommunications	Earned Master's or Doctorate degree in Business Information Systems in the teaching discipline; or Master's or Doctorate degree with a concentration in the teaching discipline with at least 18 graduate semester hours in the teaching discipline.	Information Systems, Telecommunications, Computer Science, Networking, Business Information Systems	Significant professional experience in telecommunications and networking, including understanding the implications for business and industry. Practical experience in telecommunications infrastructure, systems design, and network management, as well as relevant certifications, professional licenses, and high-impact journal and conference publications, will also be considered.
BISI 4360 Computer Networking	Earned Master's or Doctorate degree in Business Information Systems or Computer Science in the teaching discipline; or Master's or Doctorate degree with a concentration in the teaching discipline with at least 18 graduate semester hours in the teaching discipline.	Information Systems, Telecommunications, Networking	Significant professional experience in computer networking, including expertise in local area network (LAN) implementation, Internet architecture, and protocols. Practical experience with layered network architectures, routing, client-server models, and web/email protocols, as well as relevant certifications, professional licenses, and high-impact journal and conference publications, will also be considered.
BISI 4364 Cyber Security and Forensics	Earned Master's or Doctorate degree in Business Information Systems or Cyber Security in the teaching discipline; or Master's or Doctorate degree with at least 18 graduate semester hours in the teaching discipline.	Information Systems, Computer Science, Forensics	Significant professional experience in information security, computer forensics, and evidence analysis, including expertise in risk management, threat analysis, and security model selection. Practical experience with cyber phishing forensics, authentication, authorization, access control, and systems availability. Relevant professional certifications, licenses, and high-impact journal and conference publications in the field will also be considered.
BISI 4400 Website Design and Development	Earned Master's or Doctorate degree in Business Information Systems in the teaching discipline; or Master's or Doctorate degree with at least 18 graduate semester hours in the teaching discipline.	Information Systems, Computer Science, Web Development, Graphic Design	Significant professional experience in website design and development, including hands-on experience with HTML, Cascading Style Sheets (CSS), and web development tools. Practical experience with building and maintaining websites, as well as relevant certifications, professional licenses, and high-impact journal and conference publications, will also be considered.
BISI 4410 Web Technologies and Applications	Earned Master's or Doctorate degree in Business Information Systems in the teaching discipline; or Master's or Doctorate degree with a concentration in the teaching discipline with at least 18 graduate semester hours in the teaching discipline.	Information Systems, Computer Science, Web Development, E-Business, Business Information Systems	Significant professional experience in web technologies and e-business/e-commerce application development, including expertise in designing secure and robust web applications. Practical experience with dynamic web development, problem-solving in web contexts, and working with real-world case studies. Relevant certifications, professional licenses, and high-impact journal and conference publications will also be considered.
BISI 4550 Project Management	Earned Master's or Doctorate degree in Business Information Systems or Business Administration in the teaching discipline; or Master's or Doctorate degree with a concentration in the teaching discipline with at least 18 graduate semester hours in the teaching discipline.	Management, Information Systems, Project Management, Operations Management	Significant professional experience in project management, including expertise in managing projects across various industries such as IT, construction, engineering, manufacturing, new product development, R&D, and services. Practical experience in managing project life cycles, using project management tools, and addressing both technical and managerial challenges. Relevant professional certifications (e.g., PMP), professional licenses, and high-impact journal and conference publications in the field will also be considered.

BISI 4800 Internship	Earned Master's or Doctorate degree in Business Information Systems in the teaching discipline; or Master's or Doctorate degree with a concentration in the teaching discipline with at least 18 graduate semester hours in the teaching discipline.	Information Systems, Business Administration, Computer Science, Software Engineering	Significant professional experience in the information systems field, including supervisory roles in projects, internships, or relevant work experience. Practical experience in managing work-based learning opportunities and evaluating student progress. Relevant professional certifications, licenses, and high-impact journal and conference publications in the field will also be considered.
BISI 4810/4820 Seminar in Information Systems	Earned Master's or Doctorate degree in Business Information Systems in the teaching discipline; or Master's or Doctorate degree with a concentration in the teaching discipline with at least 18 graduate semester hours in the teaching discipline.	Information Systems, Business Administration, Computer Science, Software Engineering	Significant professional experience in Information Systems, including involvement in current developments, trends, or innovations in the field. Practical experience in leading research or discussions on contemporary topics in Information Systems, as well as relevant professional certifications, licenses, and high-impact journal and conference publications, will also be considered.
BISI 4900 Practicum	Earned Master's or Doctorate degree in Business Information Systems in the teaching discipline; or Master's or Doctorate degree with a concentration in the teaching discipline with at least 18 graduate semester hours in the teaching discipline.	Information Systems, Business Administration, Computer Science, Software Engineering	Significant professional experience in resolving user/system software-related problems, including hands-on experience in supporting users with software issues. Practical experience in providing assistance for software troubleshooting, system software support, and problem-solving, as well as relevant professional certifications, licenses, and high-impact journal and conference publications, will also be considered.
BISI 4990 Independent Study in BIS	Earned Master's or Doctorate degree in Business Information Systems in the teaching discipline; or Master's or Doctorate degree with a concentration in the teaching disciplinewith at least 18 graduate semester hours in the teaching discipline.	Information Systems, Business Administration, Computer Science, Software Engineering	Significant professional experience in Information Systems, including expertise in conducting independent research, analysis, and in-depth study of specific topics. Practical experience in mentoring students, supervising research projects, and providing guidance in academic work, as well as relevant professional certifications, licenses, and high-impact journal and conference publications, will also be considered.
BISI 3250 Advanced Spreadsheets for Data Analytics	Earned Master's or Doctorate degree in Business Information Systems or Data Analytics in the teaching discipline; or Master's or Doctorate degree with a concentration in the teaching discipline with at least 18 graduate semester hours in the teaching discipline.	Information Systems, Business Administration, Computer Science, Software Engineering	Significant professional experience in data analysis and spreadsheet applications, including expertise in advanced spreadsheet functions, mathematical and statistical calculations, and report generation. Practical experience in performing data analytics using spreadsheet tools like Microsoft Excel, Google Sheets, or similar software, as well as relevant certifications, professional licenses, and high-impact journal and conference publications, will also be considered.
BISI 4160 Data Analytics and Visualization	Earned Master's or Doctorate degree in Business Information Systems or Data Analytics in the teaching discipline; or Master's or Doctorate degree with a concentration in the teaching discipline with at least 18 graduate semester hours in the teaching discipline.	Data Science, Information Systems, Computer Science, Business Analytics, Data Visualization	Significant professional experience in data analytics, data visualization, and Big Data management, including expertise in handling large volumes of structured and unstructured data. Practical experience with modern information technology tools used for data analysis and visualization, as well as relevant certifications, professional licenses, and high-impact journal and conference publications, will also be considered.
BISI 4600 Business Intelligence	Earned Master's or Doctorate degree in Business Information Systems or Business Analytics in the teaching discipline; or Master's or Doctorate degree with a concentration in the teaching discipline with at least 18 graduate semester hours in the teaching discipline.	Information Systems, Data Science, Business Analytics, Business Intelligence, Computer Science	Significant professional experience in business intelligence, including expertise in data warehouse creation, data mining tools, and applying analytics to support business decision-making. Practical experience in implementing BI systems such as descriptive, predictive, and prescriptive analytics, as well as big data applications. Relevant professional certifications, licenses, and high-impact journal and conference publications will also be considered.

BISI 2500 Blockchain Technology and Applications	Earned Master’s or Doctorate degree in Business Information Systems or Computer Science in the teaching discipline; or Master’s or Doctorate degree with a concentration in the teaching discipline with at least 18 graduate semester hours in the teaching discipline.	Information Systems, Business Administration, Blockchain Technology, Cryptography	Significant professional experience in Blockchain technology, including expertise in the components, structure, applications, and use cases of Blockchain across various sectors. Practical experience with Blockchain development and implementation, as well as knowledge of legal issues, risks, and opportunities associated with Blockchain. Relevant professional certifications, licenses, and high-impact journal and conference publications will also be considered.
BISI 4155 Advanced Database Systems	Earned Master’s or Doctorate degree in Business Information Systems or Computer Science in the teaching discipline; or Master’s or Doctorate degree with a concentration in the teaching discipline with at least 18 graduate semester hours in the teaching discipline.	Information Systems, Database Management, Business Administration, Data Security	Significant professional experience in advanced database systems, including expertise in normalization, SQL query design, Entity-Relationship Modeling, distributed databases, NoSQL, and database security & privacy. Practical experience with the implementation of web databases and distributed systems, as well as relevant certifications, professional licenses, and high-impact journal and conference publications, will also be considered.
BISI 2600 Artificial Intelligence in Business	Earned Master’s or Doctorate degree in Business Information Systems or Computer Science in the teaching discipline; or Master’s or Doctorate degree with a concentration in the teaching discipline with at least 18 graduate semester hours in the teaching discipline.	Information Systems, Business Administration, Artificial Intelligence, Machine Learning, Business Analytics	Significant professional experience in the application of Artificial Intelligence in business, including expertise in machine learning techniques and real-world business problem-solving. Practical experience with AI implementation, including an understanding of ethical issues and societal impact, as well as relevant certifications, professional licenses, and high-impact journal and conference publications, will also be considered.