Business Intelligence Graduate Certificate

The Graduate Certificate in Business intelligence (BI) prepares students to support better business decision-making by providing internal data and external data in a useful and usable format. Using BI, decision makers are able to examine the value of business processes and products while watching for competitive opportunities in the marketplace. BI technologies provide historical, descriptive, predictive, and prescriptive views of business operations. The BI Certificate blends analytics and information technology in a unique program during which students work on industry datasets and learn to appreciate the difficulties of large-scale, unstructured data as well as the need for nuanced solutions.

This 12 credit hour certificate program also counts toward the 30 credit hour Master of Science in Information Systems and Technology degree program requirements. Students may choose to combine this certificate with other courses and/or certificates to obtain the Master of Science in Information Systems and Technology degree.

Admission Requirements

Applicants must meet general University of Missouri-St. Louis Graduate School admissions requirements.

Certificate Requirements

All course prerequisites and all course waivers are applicable. Substitute courses may be approved by the appropriate department chairperson and the Director of Graduate Business Programs.

Required Courses		
INFSYS 6830	Data Programming for Business Intelligence	3
INFSYS 6833	Decision Support Systems for Business Intelligence	3
Electives		
Choose two of the following courses:		6
INFSYS 6849	Data Warehouse Design and Implementation	
INFSYS 6851	Practicum in Business Intelligence	
INFSYS 6860	Advanced Data Integration	
INFSYS 6862	Artificial Intelligence Applications for Business and Cybersecurity	
SCMA 6345	Business Analytics and Data Mining	
SCMA 6350	Management Science Methods	
Total Hours		**12**

The required courses may be substituted with other courses with the approval of the Chair of the Information Systems and Technology Department.

Learning Outcomes

Upon completion of the program, certificate earners will be able to:

- Apply contemporary data programming techniques
- Structure and visualize data in useful and usable formats for business insights
- Utilize business intelligence technologies to provide historical, descriptive, predictive, and prescriptive views of business operations
- Communicate business intelligence insights to stakeholders