

Graduate Certificate in Business Intelligence

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~~A certificate program in Business Intelligence.~~ This program consists of a six-course sequence, comprising four required courses and two elective courses. Elective courses may be taken in ~~either of two sub-tracks:~~ any of five sub-tracks: ~~Business Analytics or Systems Development~~ Business Intelligence Infrastructure, Digital Strategies, Predictive Analytics, Prescriptive Analytics, or Advanced Computation. Students are responsible for any prerequisites to these classes. The list of courses is as follows:

Required Courses (12 hours)		
INFSYS 6833	Decision Support Systems for Business Intelligence	3
INFSYS 6849	Data Warehouse Design and Implementation ¹	3
or INFSYS 6860	Data Integration	
INFSYS 6851	Practicum in Business Intelligence	3
LOG OM 6345	Business Analytics and Data Mining	3
Electives (any two from either sub-track)		6
Areas of Concentration		
Choose two classes from any of the five tracks below. Both classes must be from the same concentration		
Analytics sub-track:		
—ACCTNG 5400	Financial And Managerial Accounting	
—ACCTNG 5401	Financial Reporting And Analysis	
—BUS AD 7300	Statistical Modeling	
—FINANCE 6521	Financial Forensics: The Science of Derivatives	
—FINANCE 6580	International Financial Management	
—LOG OM 5312	Advanced Statistical Methods For Management	
—LOG OM 5320	Production And Operations Management	

—LOG OM 5322	Lean Production
—LOG OM 5354	Simulation For Managerial Decision Making
—LOG OM 6330	Business Logistics Systems
—LOG OM 6331	Logistics And Supply Chain Operational Modeling
—LOG OM 6332	Logistics And Supply Chain Strategic Modeling
—LOG OM 6350	Management Science Methods
—MGMT 5625	Selected Topics In Human Resource Management
—MKTG 5740	Marketing And Business Research
System Developmnt sub-track	
Business Intelligence Infrastructure	
INFSYS 6806	Managerial Applications Of Object-Oriented Technologies
INFSYS 6808	Internet Programming For Business
INFSYS 6837	Information Systems Architecture
INFSYS 6838	Business Processes: Design, Management & Integration
INFSYS 6840	Information Systems Analysis
INFSYS 6847	Project Management
INFSYS 6848	Principles of Information Security
INFSYS 6850	Information Systems Design
INFSYS 6860	Data Integration ²
INFSYS 6891	Seminar In Information Systems (Topic subject to
Digital Strategies	
MKTG 5721	Digital Marketing Strategies and Measurement
MKTG 5795	Seminar In Marketing
Predictive Analytics	
LOG OM 5312	Advanced Statistical Methods For Management
LOG OM 5320	Production And Operations Management

LOG OM 5322	Lean Production
ECON 5110	Topics In Applied Econometrics
ECON 5120	Advanced Topics In Time Series Econometrics
ECON 5130	Advanced Topics In Business And Economic Forecasting
Prescriptive Analytics	
LOG OM 5354	Simulation For Managerial Decision Making
LOG OM 6330	Business Logistics Systems
LOG OM 6331	Logistics And Supply Chain Operational Modeling
LOG OM 6332	Logistics And Supply Chain Strategic Modeling
LOG OM 6350	Management Science Methods
LOG OM 6395	Seminar In Logistics And Operations Management
Advanced Computation	
CMP SCI 4300	Introduction To Artificial Intelligence
CMP SCI 4340	Introduction to Machine Learning
CMP SCI 5320	Introduction To Evolutionary Computation
CMP SCI 6340	Genetic Programming

¹ INFSYS 6849 is required for students pursuing the Business Intelligence Infrastructure track. These students may take INFSYS 6860 as an elective.

² INFSYS 6860 is required for students pursuing the Predictive Analytics track. These students may take INFSYS 6849 as an elective.

Sign-offs from other departments affected by this proposal

Department	Contact Person	Phone #	Objections
S003100	Haiyan Cai	X6351	No
S003400	Don Kridel	X5553	No

Rationale Changes proposed to better reflect what is happening in the field.