Companies that build data warehouses and use business intelligence for decision-making ultimately save money and increase profit. In addition, initiatives ranging from supply chain integration to compliance with government-mandated reporting requirements (such as Sarbanes-Oxley and HIPAA) depend on well-designed data warehouse architecture. This specialized studies program introduces you to the main components of a data warehouse for business intelligence applications. Learn how a data warehouse fits into the overall strategy of a complex enterprise, how to develop data models useful for business intelligence, and how to combine data from disparate sources into a single database that comprises the core of your data warehouse. Explore how to define and specify useful management reports from warehouse data.

**WHO SHOULD ENROLL**
Data systems modelers, database administrators, data architects, IT managers, business analysts, CIOs, and others who need to take data from different databases and combine them into a single repository should enroll. Those who provide the requests for data in order to analyze trends and systems should also attend.

**PROGRAM BENEFITS**
- Explain how a data warehouse combined with good business intelligence can increase a company's bottom line
- Describe the components of a data warehouse
- Describe different forms of business intelligence that can be gleaned from a data warehouse and how that intelligence can be applied toward business decision-making
- Develop dimensional models from which key data for critical decision-making can be extracted
- Sketch out the process for extracting data from disparate databases and data sources, and then transforming the data for effective integration into a data warehouse
- Load extracted and transformed data into the data warehouse
SPECIALIZED STUDIES AWARD REQUIREMENTS
Students must complete all 4 courses listed in order to qualify for the Business Intelligence and Data Warehousing Specialized Studies certificate. All requirements must be completed within 5 years after the student enrolls in his/her first course. Students not pursuing a specialized studies award are welcome to take as many individual courses as they wish.

TO ENROLL
Visit ce.uci.edu/bidw for full course descriptions, instructor biographies, and enrollment information.

PROGRAM FEES
Actual fees may differ from the estimate below. Fees are subject to change without prior notice.
Course Fees (9 units) $2,175
Candidacy Fee $35
Textbooks $150
Total Estimated Cost $2,360

FOR MORE INFORMATION:
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COURSE # REQUIRED COURSES UNITS
I&C SCI X427.01 Business Intelligence & The Data Warehouse Development Process 2.5
I&C SCI X425.32 Data Integration, Modeling, and ETL 2.5
I&C SCI X460.37 Data Structures and Algorithms 2.5
I&C SCI X494.94 Fundamentals of Agile

BUSINESS INTELLIGENCE & DATA WAREHOUSING SPECIALIZED STUDIES PROGRAM

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