

# Certificate in Information Technology and Data Analytics

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The Certificate in IT Management is a four course option for professionals who need to gain or upgrade their IT skills to meet current market demands focusing on the managerial aspects of information technology.

This program is suitable for students who would like to become IT Managers, IT Project Managers, IT Consultants, IT Strategists, Chief Information Officers (CIO), or Chief Technology Officers (CTO) among others.

You will be prepared to create IT strategies that support the business, innovate with IT, and manage projects, as well as develop and maintain the IT architecture and infrastructure of an organization.

Take the 2 required courses:

IT 508	Information Technology Management	3
IT 512	Project Management	3

Take 2 elective courses from the following:

IT 509	Data Management	3
IT 510	Software Planning and Development	3
IT 511	Data Communications and Networking	3
IT 513	Information Security	3
IT 514	Distributed Systems	3
IT 520	IT Strategy and Business Value	3
IT 521	Healthcare Information Technologies	3
IT 522	Enterprise Systems	3
IT 523	IT Architecture and Infrastructure	3
IT 524	Emergent Technologies and Issues	3
IT 582	Special Topic (IT Management)	3

The Certificate in Data Analytics is a 4-course option for professionals who need to upgrade their IT skills to meet current market demands.

Data analytics is the systematic analysis and interpretation of data using various computational and statistical tools in order to support decision-making based on the scientific method.

This program will prepare you to create, develop and implement data models as well as work with big data sets using a real-world data cluster managed in-house to derive insights and make recommendations.

Take this required course

IT 509	Data Management	3
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Take 3 courses from the following:

IT 530	Principles of Data Analytics	3
IT 531	Data Mining	3
IT 532	Data Warehouse/Bus Intelligence	3
IT 533	Big Data Technologies	3
IT 582	Special Topic (Data Analytics)	3