In 2018, Blockchain Technologies and its various applications are extending into the mainstream business community at an exponential rate. Governments, banks, insurance companies, technology start-ups and venture capital firms are all actively engaging in building new products and services on Blockchain Technologies because the technology can work for almost every type of transaction involving value. Products such as smart contracts, financial agreements and cryptocurrencies are creating massive amounts of hype for Blockchain Technologies. Any online product or service that requires a coded transaction is ripe for a Blockchain application.

In this program, you will be introduced to Blockchain Technologies as a concept and their vast applications. The most popularized example of a Blockchain technology product is Bitcoin, a peer-to-peer digital currency that has grown by a factor of 500% in 2017. But there are many other Blockchain applications, new products and services being built to capitalize on this new technology protocol.

This program helps to meet the expanding needs of business and industry for professionals who can effectively utilize critical Blockchain Technology knowledge to add value to their businesses and future careers.
WHO SHOULD ENROLL
This program is designed for professionals in a variety of industries and job functions who are looking to help their organization leverage Blockchain Technologies. Specific job titles that would benefit from this program include: marketing, sales, business analysts, computer engineers, computer scientists, data scientists, researchers, and those professionals looking to broaden their skills in this high-demand field while leveraging their unique domain expertise.

PROGRAM BENEFITS
- Learn from industry experts on what Blockchain Technology is, who is using it and why is it so revolutionary
- Understand the mechanics behind Blockchain Technologies, how it works and what the future holds for Blockchain applications
- Explain what kinds of technical applications, products and services are best suited to Blockchain Technologies
- Understand Cryptocurrencies and the Crypto Ecosystem including Bitcoin and Ethereum
- Determine related software technologies that are used to build Blockchain products and services
- Learn methodologies and tools to apply Blockchain theories and use cases using a wide range of real data
- Explain a variety of Blockchain applications, products and services and what makes them unique from other online products and services
- Describe how a Blockchain works and functions
- Understand common misconceptions, and challenges of Blockchain technologies
- Understand what hardware is needed for Blockchain Technologies

COURSE# REQUIRED COURSES (8 units) UNITS
I&C SCI X471.37 An Introduction to Blockchain Technologies 2
I&C SCI X471.38 Cryptocurrencies and Trading 2
I&C SCI X471.39 Smart Contracts and Decentralized Apps 2
I&C SCI X471.57 Blockchain Coding 2

COURSE# ELECTIVE COURSES (4 units) UNITS
I&C SCI X471.1 Introduction to Computer Programming Using C++ 3
I&C SCI X426.64 Introduction to Programming in Python 2
I&C SCI X425.2 R Programming 2
I&C SCI X471.04 JavaScript Programming 2
I&C SCI X471.58 Blockchain Cybersecurity

CERTIFICATE ELIGIBILITY AND REQUIREMENTS
A Specialized Studies certificate is awarded upon completion of 12 credit units (8 required and 4 elective units) with a grade of “C” or higher in each course.
All requirements must be completed within 5 years after the student enrolls in his/her first course. Students not pursuing a certificate are welcome to take as many individual courses as they wish.

PROGRAM FEES
Actual fees may differ from the estimate below. Fees are subject to change without prior notice.
Course Fees (8 required and 4 elective units) $5,200
Candidacy Fee $35
Textbooks $875
Total Estimated Cost $6,110

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

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