

IST 400 - Blockchain Management

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Course Description

Students complete distributed ledger labs before developing, implementing, and 'demo or die' sharktanking their own new blockchain project. Blockchain concepts such as decentralization, smart contracts, trust, and consensus governance are discussed.

Credit(s)

3.0

Professor of Record

Lee McKnight

Audience

Undergraduate (IST 400) and graduate (IST 608) students.

Learning Objectives

After taking this course, students will be able to:

- Understand the structure of a blockchain and how and why it can create trust (with cryptography for information security and immutability) across decentralized, Zero Trust networks, and be able to evaluate when/if it may be better than a simple distributed database for an application;
- Gain awareness of the challenges that exist in monetizing and regulating new businesses, and new products and services from established enterprises, with blockchain solutions and smart contracts, with or without cryptocurrencies and tokens.
- Describe and understand the differences between the most prominent blockchain ecosystems, consensus governance mechanisms such as Proof of Work and Proof of Stake, as well as rising alliances, networks, and markets.
- Understand how to create, analyze, use, manage, and govern blockchain distributed ledger applications.

Course Syllabus

[IST 400/608 Spring 2021 Syllabus - Lee McKnight](#)

Other iSchool Courses

- [IDS 301 - What's the Big Idea?: Technology Innovation](#)
- [IDS 302 - Idea2Startup](#)
- [IDS360 - Entrepreneurial Immersion Experience](#)
- [IDS 403 - iLaunchPad](#)
- [IST 101 - First Year Forum](#)
- [IST 195 - Information Technologies](#)
- [IST 233 - Intro to Computer Networking](#)
- [IST 256 - Appl.Prog.For Information Syst](#)
- [IST 263 - Intro to Front-End Web Dev](#)
- [IST 300 - Digital Platforms](#)
- [IST 300 - The Power of Information](#)
- [IST303 - Global Financial Systems Architecture](#)
- [IST 305 - Globalization: Collaboration, Culture, Systems & Data](#)
- [IST 322 - Digital Strategy & Analytics for the Web](#)
- [IST 323 - Intro to Information Security](#)
- [IST325 - Information Management Consultation](#)
- [IST 335 - Intro/Info Based Organizations](#)
- [IST 336 - Leading Issues in Info Security](#)
- [IST 337 - IM&T Support Practicum](#)
- [IST 341 - Human-Centered Design](#)

- [IST 342 - Information Security Policy](#)
- [IST 343 - Data in Society](#)
- [IST 344 - Info Reporting & Presentation](#)
- [IST 345 - Managing Info Systems Projects](#)
- [IST 346 - Info Tech Mgmt & Administration](#)
- [IST349 - Human-Computer Interaction](#)
- [IST 352 - Info Analysis of Org. Systems](#)
- [IST 359 - Intro to Data Base Mgmt Sys](#)
- [IST 363 - Advanced Front End Web Design](#)
- [IST 382 - Cultural Competence for Information Professionals](#)
- [IST 387 - Intro to Applied Data Science](#)
- [IST 426 - Information Justice and Community Engagement](#)
- [IST 400 - Blockchain Management](#)
- [IST 402 - Digital Forensics](#)
- [IST 407 - Advanced Data Analytics](#)
- [IST 414 - Data Driven Inquiry](#)
- [IST 419 - Economics for Info Mgmt](#)
- [IST 421 - Information Visualization](#)
- [IST 425 - Enterprise Risk Management](#)
- [IST 429 - Technology & the Future of Work](#)
- [IST431 - Security in Networked Environments](#)
- [IST 442 - Agile Project Management](#)
- [IST443 - Critique of the Information Age](#)
- [IST447 - Complex Issues in IT Project Management](#)
- [IST448 - Enterprise Wireless Networks](#)
- [IST 452 - Advanced Computer Networking](#)
- [IST453 - Telecommunications Regulations](#)
- [IST456 - Information Policies and Decision Making](#)
- [IST462 - Scripting for Data Analysis](#)
- [IST 466 - Prof Issues/Info Mgmt & Tech](#)
- [IST469 - Advanced Database Management Systems](#)
- [IST471 - Internship in Info Mgmt & Tech](#)
- [IST472 - Coop Educ in Info Mgmt & Tech](#)
- [IST475 - Full Stack Web Development](#)
- [IST476 - Applied Information Security](#)
- [IST 477 - Research in Innovation, Society, and Technology](#)
- [IST 486 - Social Media in the Organiz.](#)
- [IST 523 - Graphic Design for the Web](#)