

# IST 603 - Global Financial Systems Architecture

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## Course Description

Structures of real-world information systems in the money supply chain. Emphasis on large-scale banking organizations and their challenges in moving and processing millions of complex transactions worldwide for all types of customers.

## Additional Course Description

This course focuses on developing fundamental knowledge of financial concepts, how banking and financial services work, the global nature of these industries, and the computing and information systems that have enabled today's highly complex global financial systems. Students will apply these concepts to analyze specific financial services, companies, and regulatory institutions. They also will examine the rapidly growing financial technology (fintech) sector that is creating opportunities for new companies and challenges for the existing industry. The concepts learned will be used to examine critical issues, including the social and economic impacts of access to financial services, how algorithms may perpetuate inequality, how new technologies and business models can support economic development, and whether fintech is moving faster than the ability of national and international institutions to regulate effectively. This is a combined undergraduate/graduate course. The course instruction, materials and assignments will be the same for undergraduate and graduate students. There will be higher expectations for graduate students in quality of products and contribution.

## Credit(s)

3.0

## Professor of Record

Jason Dedrick

## Audience

Undergraduate and Graduate students desiring an introduction to the global financial system, the information systems that support it, and new financial technologies (fintech) that are transforming the finance industry.

## Learning Objectives

After taking this course, the students will be able to:

- Describe the overall structure of the global financial system.
- Describe important processes and systems that provide a wide range of consumer and commercial financial products and services.
- Recall definitions of important terms relating to financial systems.
- Define the components of financial statements for commercial firms and compare these to those of financial institutions.
- Describe the components of multinational computer and information systems and operational processes that are used to perform transactions, create services, move, analyze and store information for those financial systems.
- Research current trends in large-scale financial systems, and describe how they are being changed by new architectures such as cloud computing.
- Identify recent and emerging financial technologies (fintech) and describe how they work and how they are changing the nature of the global financial services industry.
- Identify organizational, technological, regulatory, cultural and ethical issues that face financial institutions that operate on a global scale, and describe how these firms have succeeded or failed in addressing those issues.

## Course Syllabus

[IST 603/GET 302 Spring 2021 Syllabus - Jason Dedrick](#)

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## Other iSchool Courses

- [IDS660 - Spring Break in Silicon Valley/Entretech - NYC](#)
- [IST 511 - Intro to Library & Info Prof](#)
- [IST556 - Mobile Network Services](#)
- [IST564 - Accessible Lib & Info Services](#)
- [IST 600 - Digital Humanities](#)
- [IST 600 - Information Justice and Community Engagement](#)
- [IST 602 - Digital Forensics](#)
- [IST 603 - Global Financial Systems Architecture](#)
- [IST 605 - Reference & Info Literacy Svces](#)
- [IST 608 - Blockchain Management](#)
- [IST611 - Info. Tech. in Educ. Orgs.](#)
- [IST612 - Youth Svce in Libr Info Ctrs](#)
- [IST 613 - Library Plan., Mktng, Assess](#)
- [IST 614 - Management Principles for Information Professionals](#)
- [IST 615 - Cloud Management](#)
- [IST 617 - Motivational Aspects of Information Use](#)
- [IST 618 - Information Policy](#)
- [IST 619 - Economics of Digital Transformation](#)
- [IST 621 - Information Management and Technology](#)
- [IST 622 - Preserv. of Cultural Heritage](#)
- [IST 623 - Intro to Information Security](#)
- [IST 624 - Preserv Lib/Archival Collectns](#)
- [IST 625 - Enterprise Risk Management](#)
- [IST 627 - What's the Big Idea: Technology Innovation](#)
- [IST 628 - Organization/Management of Archival Collections](#)
- [IST632 - Management and Organization of Special Collections](#)
- [IST634 - Security in Networked Environ](#)
- [IST 635 - Collection Dev & Access](#)
- [IST 636 - Leading Issues/Info Security](#)
- [IST639 - Enterprise Technologies](#)
- [IST643 - Enterprise Services and Virtualized Systems](#)
- [IST 645 - Managing Info Systems Projects](#)
- [IST646 - Storytelling Info Professional](#)
- [IST647 - Network Virtualization](#)
- [IST648 - Enterprise Wireless Network Technologies](#)
- [IST 649 - Human Interaction W/Computers](#)
- [IST 651 - Scripting for Enterprise Data Systems](#)
- [IST 652 - Scripting for Data Analysis](#)
- [IST 654 - Information Systems Analysis](#)
- [IST655 - Enterprise IT Consultation](#)
- [IST 658 - Advanced Enterprise Network Management](#)
- [IST 659 - Database Administration Concepts & Database Management](#)
- [IST661 - Managing a School Library](#)
- [IST662 - Instr Strgt & Tech/Info Profs](#)
- [IST663 - Motivating 21st Cent. Learning](#)
- [IST 664 - Natural Language Processing](#)
- [IST668 - Literacy Through School Libraries](#)
- [IST671 - Research Methods in Info. St.](#)
- [IST672 - The Public Library as Institution](#)
- [IST 673 - Technology & The Future of Work](#)
- [IST 674 - Academic Librarianship](#)
- [IST676 - Digital Data and Services in Libraries](#)
- [IST 678 - Communications for Information Professionals](#)
- [IST 681 - Metadata](#)
- [IST 682 - Cultural Competence for Information Professionals](#)
- [IST 687 - Introduction to Data Science](#)
- [IST 700 - Visual Analytics Dashboards](#)
- [IST 700 - Applied Deep Learning](#)
- [IST 700 - Deep Learning, NLP, and Computational Social Science](#)
- [IST 700 - Agile Project Management](#)
- [IST 704 - Applied Info Security](#)
- [IST 707 - Applied Machine Learning](#)
- [IST711 - e-Government](#)
- [IST 714 - Cloud Architecture](#)
- [IST 715 - LAMS: Libraries, Archives, and Museums](#)
- [IST717 - Advanced Library Management](#)
- [IST 718 - Big Data Analytics](#)
- [IST 719 - Information Visualization](#)
- [IST720 - Topics in Library Leadership](#)
- [IST 722 - Data Warehouse](#)
- [IST724 - Database Security](#)
- [IST725 - Information Technology Security Architecture](#)
- [IST726 - Enterprise Architecture: Concepts and Practice](#)
- [IST 728 - Information Security Policy](#)
- [IST735 - Copyright for Information Prof](#)
- [IST 736 - Text Mining](#)
- [IST745 - Proj Portfolio and Prgm Mgmt](#)

- [IST 747 - Complex Issues in IT Project Management](#)
- [IST 754 - Capstone Project in Enterprise Data Systems](#)
- [IST 755 - Strategic Management of Information Resources](#)
- [IST769 - Advanced Big Data Management](#)
- [IST 772 - Quantitative Reasoning for Data Science](#)
- [IST 790 - Theories of Information](#)
- [IST 971 - Internship in Info Studies](#)
- [IST972 - School Media Practicum](#)
- [IST 973 - Internship in Information Studies](#)
- [IST 974 - Internship in Applied Data Science](#)