

Financial Technologies and Services (07.42800) (2020)

Adopted 2020

Demonstrate employability skills required by business and industry. [IT-FTS-1](#)

1. Communicate effectively through writing, speaking, listening, reading, and interpersonal abilities. [IT-FTS-1.1](#)
2. Demonstrate creativity by asking challenging questions and applying innovative procedures and methods. [IT-FTS-1.2](#)
3. Exhibit critical thinking and problem-solving skills to locate, analyze and apply information in career planning and employment situations. [IT-FTS-1.3](#)
4. Model work readiness traits required for success in the workplace including integrity, honesty, accountability, punctuality, time management, and respect for diversity. [IT-FTS-1.4](#)
5. Apply the appropriate skill sets to be productive in a changing, technological, diverse workplace to be able to work independently and apply team-work skills. [IT-FTS-1.5](#)
6. Present a professional image through appearance, behavior, and language. [IT-FTS-1.6](#)

Analyze the effect of technological advances on business transactions, specifically in the financial services technology (FinTech) industry. [FIN-FTS-2](#)

1. Describe the FinTech landscape and how it has evolved since the introduction of smartphones. [IT-FTS-2.1](#)
2. Identify and summarize which fundamental technologies are driving the biggest changes in the financial industry. [IT-FTS-2.2](#)

Assess financial business ecosystems and digital platforms found within FinTech. [FIN-FTS-3](#)

1. Evaluate and analyze the process that powers electronic transaction business ecosystems. [IT-FTS-3.1](#)
2. Compare and contrast various legacy and digital financial services platforms to determine the need to migrate to digital finance platforms. [IT-FTS-3.2](#)
3. Describe ways to achieve efficient financial services migration to digital platforms. [IT-FTS-3.3](#)

Investigate technological advancements in the financial services industry. [FIN-FTS-4](#)

- 1. Analyze transactional data and describe how it is used to develop customer intelligence.** [IT-FTS-4.1](#)
- 2. Analyze blockchain technology and explain how it facilitates fast, secure, low-cost payment processing.** [IT-FTS-4.2](#)
- 3. Demonstrate how the emergence of digital finance extends from customer experience and operational efficiency to big data and analytics.** [IT-FTS-4.3](#)
- 4. Explain how robotics and artificial intelligence (AI) are applying key pressure points, reducing costs, and mitigating risks in the financial services industry.** [IT-FTS-4.4](#)

Explain what robo-advisors are and summarize their role in financial services. [FIN-FTS-5](#)

- 1. Define digital asset management and compare examples researched via Internet.** [IT-FTS-5.1](#)
- 2. Define digital trade and explain key barriers.** [IT-FTS-5.2](#)
- 3. Describe how digital investments are made and provide examples within FinTech.** [IT-FTS-5.3](#)
- 4. Describe how robo-advising and AI are shaping (affecting) the FinTech services landscape.** [IT-FTS-5.4](#)
- 5. Describe the process for creating an automated budget, and create an automated budget using spreadsheet software.** [IT-FTS-5.5](#)

Critique characteristics of electronic and mobile payment systems used in FinTech. [FIN-FTS-6](#)

- 1. Describe the structure of the United States electronic payment systems and demonstrate the different ways money can move throughout the financial services systems.** [IT-FTS-6.1](#)
- 2. Evaluate how and why blockchain, without proper investment, can have detrimental effects on speed and cost for cross-border electronic payment systems.** [IT-FTS-6.2](#)
- 3. Analyze how cryptocurrency has revolutionized the accessibility of electronic and mobile payments.** [IT-FTS-6.3](#)
- 4. Compare and contrast the different types of mobile and digital wallets.** [IT-FTS-6.4](#)
- 5. Analyze the importance of authentication in the payment context as well as the technological trends in payments authentication as related to digital identity.** [IT-FTS-6.5](#)
- 6. Identify international trends in mobile and electronic payments to compare/contrast the benefits and drawbacks of the different financial ecosystems.** [IT-FTS-6.6](#)

Identify the major financial industry regulators and types of financial activities that are regulated. [FIN-FTS-7](#)

1. Critique the financial regulatory environment in the United States and its impact on the development of new and innovative financial technologies and services. [IT-FTS-7.1](#)
2. Evaluate and explain the relationship between privacy and financial innovation. [IT-FTS-7.2](#)
3. Describe how partnerships can alleviate regulatory burdens for developing new financial products and services. [IT-FTS-7.3](#)
4. Research and summarize the major international financial regulatory trends. [IT-FTS-7.4](#)

Critique the relationship between blockchain and cryptocurrencies. [FIN-FTS-8](#)

1. Describe the key characteristics of blockchain and compare the major types in existence (e.g., open/closed; permission/permissionless; hybrids). [IT-FTS-8.1](#)
2. Detail the major drawbacks of blockchain technologies (e.g., energy consumption, speed) and how these challenges are being addressed by the financial services industry. [IT-FTS-8.2](#)
3. Distinguish cryptocurrencies from digital currencies and detail the benefits and drawbacks of each. [IT-FTS-8.3](#)
4. Compare and contrast cryptocurrencies and digital currencies with fiat currency. [IT-FTS-8.4](#)
5. Research the ways that new financial products can leverage the specific characteristics of blockchain and cryptocurrencies. [IT-FTS-8.5](#)
6. Evaluate and describe the limitations/benefits of the structural implication of distributed ledger technologies. [IT-FTS-8.6](#)

Examine how related student organizations are integral parts of career and technology education courses through leadership development, school and community service projects, and competitive events. [FIN-FTS-9](#)

1. Research the history of Future Business Leaders of America (FBLA). [IT-FTS-9.1](#)
2. Discuss the mission, purpose, motto, colors, official dress, and other distinguishing characteristics of FBLA. [IT-FTS-9.2](#)
3. Explain how participation in FBLA can promote lifelong responsibility for community service, professional growth, and development. [IT-FTS-9.3](#)
4. Create a personal leadership plan to participate in programs, conferences, community service, and competitive events on the local, state, and national level that align with the competencies, skills, and knowledge of this course. [IT-FTS-9.4](#)