FINTECH

Joitly offered by the
College of Business &
College of Engineering
and Computer Science
SHAPING THE FUTURE OF FINANCE

FinTech is changing the world we live in. The evolving intersection between the financial services industry and technological innovations is driving the need for highly trained professionals with both advanced financial skills and requisite technological skills.

WHAT IS FINTECH?
FinTech, or financial technology, refers to the application of technological innovation in the financial services industry.

- 96% of global consumers are aware of at least one FinTech service and 3 out of 4 people worldwide have used a FinTech service (EY Global FinTech Adoption Index, 2019)
- The projected value of the global financial services market is $26.5 trillion by 2022 (The Business Research Company, 2020)
- The global FinTech market is expected to grow as CAGR of 23.6% from 2021 to 2025 (Research and Markets, 2020)
- Up to 28% of banking and payment services will be at risk of disruption due to new business models brought about by FinTech (PwC, 2020)
- As of 2021, there are 8,775 FinTech startups in the Americas (Statista, 2021)

“We are committed to making Florida the top destination for FinTech companies to grow and succeed.”
— RON DESANTIS, Florida Governor

Orlando is a FinTech Hub — No. 1 for STEM job growth in the U.S.
— Forbes, 2018
As the FinTech industry continues to gain momentum so does the skills gap for professionals with relevant FinTech experience and expertise. FinTech demands a unique set of skills and capabilities in the following areas:

- Artificial intelligence and robo-advising
- Blockchain
- Crowd funding
- Cybersecurity
- Mobile application development
- Peer-to-peer lending

Jobs within the FinTech Industry:

- Apps developer
- Blockchain developer
- Cybersecurity analyst
- Compliance expert
- Data specialist
- Financial analyst
- Investment manager

“If UCF can train students with skills in both finance and technology, and provide a foundation in tools to harness the power of data...I do believe it will better prepare them to hit the ground running at financial services firms. There definitely is significant need for these skills in the financial services industry.” — AMOL S. ANIK, Former Partner, Goldman Sachs
DEFINING THE FUTURE OF FINTECH

The UCF MS in FinTech will allow students to capitalize on the opportunities and challenges triggered by the disruptive technologies of FinTech. The program’s interdisciplinary curriculum will provide students with employable technical skills and the ability to think and function in cross-disciplinary teams. Students who have completed the MS in FinTech will be able to:

- Conceptualize, design and implement websites and their backends for creating financial technologies (FinTech) applications.
- Design, implement and test artificial intelligence (AI) systems, including chat bots, biometrics, object recognition and prediction systems.
- Understand and employ blockchain and other distributed systems for enabling cybercurrencies and other trusted distributed applications.
- Implement financial technologies using advanced algorithms and data structures together with a clear understanding of hardware architectures.
- Understand current financial system and the inefficiencies in it and how traditional financial sectors have been disrupted by FinTech.
- Critically examine inefficiencies in existing financial services and formulate better solutions.
- Use data, statistical and quantitative analysis, and exploratory and predictive models to inform financial decision making.
- Present applications to most major areas of modern finance – investment analysis, capital markets and fixed income markets, corporate finance, and economic geography, among others.
- Formulate business plans for a new FinTech venture that solves a need in the current market and defend the plan.

“The program is designed to promote entrepreneurial thinking amongst students and foster relationships with the local FinTech community in Central Florida.”

— CHRISTO PIRINSKY, PH.D., MS in FinTech Co-Director
Equipping students with the advanced skills to succeed in the challenging financial and technology sectors.

- STEM designated master’s program
- AACSB-accredited
- Interdisciplinary program with College of Business and College of Engineering and Computer Science

- Available fully online or on-campus
- Part-time and full-time schedule options
- Complete program in only 3 semesters

### MS in FinTech Curriculum

#### COMPUTER SCIENCE COURSES

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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>CAP 5619</td>
<td>Artificial Intelligence for FinTech</td>
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<tr>
<td>CIS 5730</td>
<td>Blockchains and Smart Distributed Contracts</td>
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<td>COP 5818</td>
<td>Full Stack Development for FinTech</td>
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<td>COT 5840</td>
<td>Computational Methods in FinTech I</td>
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<tr>
<td>COT 6481</td>
<td>Computational Methods in FinTech II</td>
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#### FINANCE COURSES

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<tr>
<td>FIN 6406</td>
<td>Strategic Financial Management</td>
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<td>FIN 6515</td>
<td>Analysis of Investment Opportunities</td>
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<td>FIN 6777</td>
<td>FinTech Entrepreneurship (Capstone Course)</td>
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<td>FIN 6778</td>
<td>Foundations of FinTech</td>
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<td>FIN 6779</td>
<td>FinTech in Decision Making</td>
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UCF is an academic, partnership and research leader in numerous fields, such as optics and lasers, modeling and simulation, engineering and computer science, business, public administration, education, hospitality management, healthcare and video game design. In addition to being recognized as one of the best national universities in 2020 by Washington Monthly, UCF consistently appears in U.S. News and World Report's best college rankings.

Students from across the globe come to UCF to experience academic achievement — getting hands-on experience inside and outside of the classroom before graduation. Leave here prepared for a rewarding lifelong career and make a difference in the community and beyond. At UCF, excellence is in everything we do.
An affordable best value education

UCF ranks among the nation’s best value colleges by *Forbes*, *Kiplinger* and the *Princeton Review*.

**COLLEGE HIGHLIGHTS**

**College of Business**

Named one of the best business programs in the nation by *U.S. News & World Report*, the UCF College of Business is accredited by the AACSB and is a next-generation business school emphasizing a culture of engagement with the business community.

**College of Engineering and Computer Science**

UCF’s College of Engineering and Computer Science ranks in the top 50 public graduate engineering colleges nationwide by *U.S. News & World Report* and is home to the four-time national champion UCF Collegiate Cyber Defense Championship.
WHO SHOULD APPLY
Candidates for the program should have a strong, academically-based quantitative background and an interest in working at the nexus of emerging technologies and the financial sector.

CANDIDATE REQUIREMENTS

- Earned bachelor’s degree from a regionally accredited institution with a minimum of 3.0 GPA in one of the following: accounting, finance, economics, information systems, information technology, computer science, engineering, mathematics, statistics or natural sciences.
- For the MS in FinTech online, a minimum of 3 years professional work experience.

APPLICATION REQUIREMENTS

- Online application
- Official transcript(s)
- Goal statement of 500 words or less
- Current resume
- Non-refundable application fee of $31

APPLICATION DEADLINES

- International applicants: January 15
- Domestic applicants: July 1

Learn more, see application requirements and deadlines and apply at business.ucf.edu/fintech

FOR MORE INFORMATION

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