

## Programme Specification

Programme Summary Information			
1	<b>Programme Title</b>		BSc (Hons) FinTech and Digital Finance
2	<b>University of Sunderland Course Code</b>	TBC	<b>UCAS Code</b> FDF1
3	<b>Awarding Institution</b>		University of Sunderland
4	<b>Teaching Institution(s)</b> (if different from point 3)		UoSIL
5	<b>Professional Statutory or Regulatory Body (PSRB)</b> (if applicable)		N/A
6	<b>For Apprenticeships:</b>		
	<b>Name of Apprenticeship Standard</b>		N/A
	<b>Apprenticeship Standard Number</b>		N/A
	<b>IfATE LARS Number</b>		N/A

7	Programme Description
	<p><b>Overview</b></p> <p>The BSc FinTech and Digital Finance is an innovative, future-focused undergraduate programme that equips students with the knowledge, skills and practical experience needed to thrive at the intersection of finance and digital technology. Designed in response to the rapid digital transformation of the financial services industry, this programme prepares graduates to become agile, tech-savvy professionals capable of driving innovation in global financial markets.</p> <p>The programme combines core principles of finance and economics with cutting-edge development in digital technology, data analytics and emerging technologies such as blockchain, artificial intelligence and cybersecurity. Students will explore a wide range of topics including digital banking, algorithmic lending, RegTech, InsurTech and fintech entrepreneurship, gaining a thorough understanding of both the financial ecosystem and the digital tools shaping its future.</p> <p>Learning is delivered through a blend of lectures, hands-on lab work, industry case studies, collaborative projects and guest speakers from the FinTech sector. The curriculum is structured to build foundational knowledge in the early stages and progressively deepen technical and strategic capabilities. In the final year, students undertake a Capstone Project that allows them to apply their learning to a real-world issue or innovative solution within fintech sector.</p> <p>By graduation, students will possess not only strong technical and analytical skills but also the professional mindset and ethical awareness required to make meaningful contributions to financial innovation. The programme prepares graduates for diverse roles across FinTech start-</p>

ups, financial institutions, technology companies and regulatory organisations, as well as for further study or entrepreneurial ventures.

**What's covered in the course?**

The BSc (Hons) FinTech and Digital Finance programme provides a comprehensive and forward-looking education at the intersection of finance and digital technology. It equips students with the essential theoretical knowledge and practical skills needed to thrive in the rapidly evolving financial technology sector. Each stage of the programme contributes towards the development of expertise in the field of finance and financial technology as outlined below.

**Stage 1** focuses on building foundational knowledge in finance, economics and digital finance systems. Students explore the basics of financial markets and instruments, digital banking, payment infrastructures, programming, data analytics, blockchain technologies and smart contracts.

**Stage 2** deepens students' understanding of advanced FinTech topics including artificial intelligence, big data applications in finance, regulatory technologies (RegTech), cybersecurity, fraud prevention, crowdfunding, and algorithmic lending. The stage also introduces students to innovations in insurance technology (InsurTech) and wealth management platforms.

**Stage 3** develops strategic and entrepreneurial capabilities. Students engage with topics such as FinTech innovation strategy, venture capital and FinTech start-ups, alongside in-depth study of advanced blockchain technologies and digital assets. The programme culminates in a Capstone Project, allowing students to apply their learning to a real-world problem or research question in fintech and digital technology.

Graduates will emerge with a strong interdisciplinary skillset, prepared for careers across financial services, technology development, regulatory bodies and fintech entrepreneurship.

**Where will I study?**

Students who enrolled on the BSc (Hons) FinTech and Digital Finance will be studying at the University of Sunderland in London. Teaching will be face-to-face.

**Does the programme have an associated IFY? No**

<b>8</b>	<b>Programme Awards</b>		
<b>8a</b>	<b>Name of Final Award</b>	<b>Level</b>	<b>Credits Awarded</b>
	Bachelor of Science with Honours	6	360
<b>8b</b>	<b>Exit Awards and Credit Awarded</b>		
	Certificate of Higher Education	4	120
	Diploma of Higher Education	5	240
	Bachelor of Arts	6	300

<b>9</b>	<b>Programme Specific Regulations</b>
	No

<b>10a</b>			
	<b>Mode(s) of Study</b>	<b>Location/Campus</b>	<b>Duration of Study</b>
	Full time	London	3 years
	Part time	London	6 years

**10b**

Is this programme delivered at a <a href="#">Transnational (TNE) partner</a> ?	No
Is this programme delivered at <a href="#">UK Partner Institutions</a> ?	No

<b>11</b>	<b>Entry Requirements</b>
	<p>The admission requirements for this programme as stated on the course page of the University of Sunderland website at <a href="https://www.sunderland.ac.uk/">https://www.sunderland.ac.uk/</a>, or found by searching for the course entry profile located on the <a href="#">UCAS website</a> are correct. <b>YES</b></p> <p>This programme is suitable for students to enter with advanced standing (e.g. APL) <b>YES</b></p> <p>Where applicable use the space below to detail any specific arrangements – e.g. APL only permitted to a specific level <a href="#">Accreditation of Prior Learning (APL)</a></p>

<b>12</b>	<b>Programme Learning Outcomes</b>
	By the end of <b>Stage 1</b> of the programme successful students will be able to do the following:
<b>1</b>	Discuss the principles of finance, economics and digital innovation within the evolving FinTech landscape.
<b>2</b>	Demonstrate foundational programming skills in languages such as Python, Solidity and R to create basic components of FinTech applications and digital banking
<b>3</b>	Demonstrate awareness of blockchain, cryptocurrencies, AI-driven finance and computational techniques in digital financial services.
<b>4</b>	Construct simple smart contracts and explain their purpose, structure and potential applications within financial technology contexts.
	By the end of <b>Stage 2</b> of the programme successful students will be able to do the following:
<b>5</b>	Analyse the regulatory and ethical considerations shaping the development and adoption of financial technologies globally.
<b>6</b>	Apply data-driven decision-making techniques using big data, AI and predictive analytics to solve complex financial problems.
<b>7</b>	Assess and manage financial risk through algorithmic models, credit scoring and AI-powered risk assessment tools.
<b>8</b>	Implement cybersecurity and blockchain security best practices to safeguard digital assets, financial transactions and wealth management platforms.
	By the end of <b>Stage 3</b> of the programme successful students will be able to do the following:
<b>9</b>	Critically examine emerging trends and technological advancements in digital finance and utilise quantitative finance techniques and algorithmic trading strategies to model and optimise financial markets.
<b>10</b>	Demonstrate strategic thinking and innovation in financial technology applications, including DeFi and embedded finance.
<b>11</b>	Effectively communicate complex FinTech concepts through technical reports, financial modelling and industry presentations.
<b>12</b>	Work collaboratively in interdisciplinary teams to develop FinTech solutions and engage with industry stakeholders

<b>13. Programme Requirements</b>
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***There are optional modules on this programme No***

**Level 4:**

***In order to complete this programme, a student must successfully complete all the following CORE modules (totalling 120 credits):***

<b>Module Code</b>	<b>Module Name</b>	<b>Credit Value</b>	<b>PLO(s) assessed</b>
<b>UFF1013</b>	Foundations of Finance and Economics	<b>30</b>	PLO1
<b>UFF1014</b>	Digital Banking and Payment Systems	<b>30</b>	PLO1, PLO2
<b>UFF1015</b>	Programming and Data Analytics for Finance	<b>30</b>	PLO2, PLO3
<b>UFF1016</b>	Blockchain and Smart Contracts	<b>30</b>	PLO3, PLO2, PLO4

**Level 5:**

***In order to complete this programme, a student must successfully complete all the following CORE modules (totalling 120 credits):***

<b>Module Code</b>	<b>Module Name</b>	<b>Credit Value</b>	<b>PLO(s) assessed</b>
<b>UFF2017</b>	AI and Big Data in Finance	<b>30</b>	PLO6, PLO7
<b>UFF2018</b>	RegTech, Cybersecurity and Fraud Prevention	<b>30</b>	PLO5, PLO8
<b>UFF2019</b>	Finance, Crowdfunding and Algorithmic Lending	<b>30</b>	PLO7, PLO8
<b>UFF2020</b>	InsurTech and Wealth Management	<b>30</b>	PLO8, PLO7

**Level 6:**

***In order to complete this programme, a student must successfully complete all the following CORE modules (totalling 120 credits):***

<b>Module Code</b>	<b>Module Name</b>	<b>Credit Value</b>	<b>PLO(s) assessed</b>
<b>UFF3021</b>	FinTech Strategy and Innovation	<b>30</b>	PLO9, PLO10, PLO11, PLO9
<b>UFF3022</b>	Venture Capital and FinTech Entrepreneurship	<b>30</b>	PLO9, PLO11, PLO12, PLO9
<b>UFF3023</b>	Advanced Blockchain and Digital Assets	<b>30</b>	PLO10, PLO11, PLO12, PLO9
<b>UFF3024</b>	Capstone Project	<b>30</b>	PLO10, PLO11, PLO12, PLO9

**For Apprenticeships only:**

**What is the total number of off the job training hours for this programme?**

**Please describe the End Point Assessment (EPA) with reference to the IfATE EPA Plan.**

**Please note mapping of PLOs against apprenticeship KSBs is required. The mapping table is available separately.**

Please explain how Safeguarding, Prevent and British Values are embedded in the curriculum.

#### 14. Employability

The programme contributes to the development of the following graduate attributes.

Please refer to [Integrated Curriculum Design Framework](#) when completing this section.

<p><b>Professional</b></p>	<p>The BSc FinTech and Digital Finance programme is designed not only to equip students with academic and technical knowledge but also to foster a strong professional attitude essential for success in the dynamic fintech industry. Throughout the course, students are encouraged to cultivate behaviours and mindsets aligned with industry expectations, including integrity, accountability, adaptability and continuous learning.</p> <p>Professionalism is embedded across all stages of the programme through a range of activities and learning approaches. Group projects and collaborative tasks promote teamwork, communication and respect for diverse perspectives. Case studies, industry-led seminars and guest lectures expose students to real-world challenges and ethical considerations, helping them to appreciate the importance of responsible innovation and regulatory compliance.</p> <p>Students are expected to engage in independent learning and time management from the outset, preparing them for the self-directed nature of professional work. The Capstone Project in the final year requires students to work independently or in teams, often liaising with external partners, which enhances their ability to plan, execute and reflect on complex work in a professional context.</p> <p>In addition, employability skills are reinforced through personal development planning, career workshops, and opportunities to engage with professional bodies and fintech practitioners. The programme encourages students to maintain high standards in communication, digital literacy and presentation - ensuring they graduate with the confidence and professionalism required to excel in their chosen careers.</p>
<p><b>Adaptable</b></p>	<p>The BSc FinTech and Digital Finance programme is structured to develop graduates who are agile, resilient and adaptable - key attributes for success in the fast-evolving landscape of financial technology. Through a blend of theoretical foundations, technical skills and real-world application,</p>

	<p>students are prepared to thrive in a variety of roles and respond effectively to change and uncertainty.</p> <p>The interdisciplinary nature of the programme - combining finance, data analytics and emerging technologies - encourages students to think critically across domains and adapt their knowledge to new contexts. Modules such as <i>AI and Big Data in Finance</i>, <i>Blockchain and Smart Contracts</i>, and <i>RegTech</i>, <i>Cybersecurity</i> and <i>Fraud Prevention</i> introduce students to technologies and challenges that are continuously evolving, requiring them to stay informed, flexible, and open to innovation.</p> <p>Throughout the course, students engage in project-based learning, problem-solving and collaborative work, all of which simulate the dynamic nature of real-world fintech environments. The programme also integrates exposure to industry trends, regulatory changes and disruptive business models, further reinforcing the importance of adaptability.</p> <p>By the time students reach the final year, they are expected to undertake a Capstone Project that challenges them to apply their learning to novel and often complex problems, requiring initiative, creativity and adaptability. This experience, combined with the cumulative skills developed over the programme, ensures that graduates are well-positioned to respond to the shifting demands of the fintech sector and beyond.</p>
<p><b>Engaged</b></p>	<p>The programme is designed to develop socially responsible graduates who are united by a desire to give back to society and contribute meaningfully to the development of communities at local, regional and global levels. The curriculum encourages students to consider the wider social, ethical and environmental impacts of financial technologies, and to view innovation as a tool for positive change.</p> <p>Modules such as <i>Digital Banking and Payment Systems</i>, <i>Finance</i>, <i>Crowdfunding and Algorithmic Lending</i>, and <i>InsurTech and Wealth Management</i> explore how technology can be used to improve financial inclusion, support underserved communities and enable more equitable access to financial services. Students learn about the role of fintech in addressing global challenges such as poverty, economic inequality, and climate change, and are encouraged to critically assess the societal implications of emerging technologies.</p> <p>Community engagement is further promoted through opportunities to work on real-world problems during the Capstone Project, which may involve partnerships with social</p>

	<p>enterprises, charities, or mission-driven fintech start-ups. This practical experience helps students to connect their technical skills with meaningful societal outcomes.</p> <p>Additionally, the programme fosters a culture of ethical leadership, civic responsibility, and global citizenship. Through group work, open dialogue, and exposure to diverse perspectives, students are encouraged to reflect on their values and consider how their actions as future professionals can contribute to building inclusive, resilient, and sustainable communities.</p>
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### 15. Additional Costs: Are there any additional costs on top of the fees?

List any additional costs the students will have to meet and whether this is optional (e.g. an optional field trip) or essential (e.g. buying a lab coat). Give an estimation of the approximate cost which may be a range. This information should be replicated in the Module Guide and will be published on the course page.

No, but all students buy some study materials such as books and provide their own basic study materials	X
Yes (optional). All students buy some study materials such as books and provide their own basic study materials. In addition, there are some additional costs for optional activities associated with the programme (see above)	
Yes (essential). All students buy some study materials such as books and provide their own basic study materials. In addition, there are some essential additional costs associated with the programme (see above)	

### 16. Version Control

**Programme Specifications are checked annually and updated when changes are made to the programme.**

Version Number		Date	Details of change	Author
V1	Document created	18/04/25	New programme created	Dr Yahaya Alhassan
V2	Document changed	21/11/2025	Changes to PLO following comments from validation panel	Dr Yahaya Alhassan

Version number:	5	Template owner:	Quality Team
Date reviewed:	Jun-24	Date of next review:	Jun-29