BASc(FinTech)

Introduction to BASc(FinTech) Programme

- Financial Technology
  - is about application of information & communication technologies to the provision of financial services, which changes the nature of commerce and end-user expectations for financial services.
  - has a profound impact on the development of the global and local financial industries.
  - is an area with high demand of talents to support the fast-growing FinTech industry.
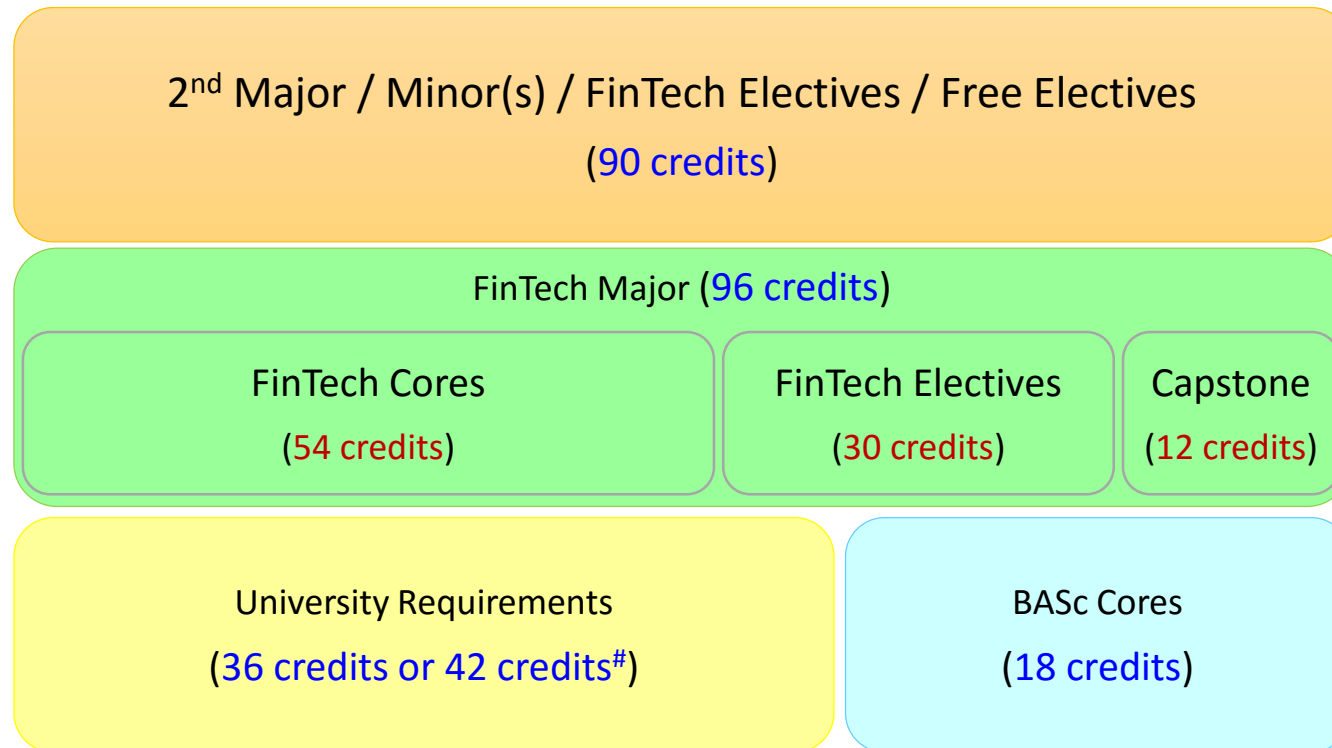
Introduction to BASc(FinTech) Programme

- BASc(FinTech) programme
    - is jointly offered by the Department of Computer Science, the Faculty of Engineering and the Faculty of Business and Economics
    - its objective is to nurture financial technologists and entrepreneurs with essential knowledge in both finance and technology
    - is an inter-disciplinary study which covers computing, finance, and legal regulations
        - requires the integration of computing technologies and financial knowledge to solve real-world problems related to financial services with the understanding on relevant legal regulations and policies
    - include soft topics from other disciplines for broadening the students' knowledge and views and prepare the students to face the fast-growing FinTech industry

Programme Learning Outcomes

- Upon successful completion of the curriculum, students should be able to:

PLO a	**apply knowledge of computing technologies to finance applications appropriate to the programme outcomes and to the discipline**
PLO b	apply knowledge of computing technologies to the abstraction and conceptualization of financial applications
PLO c	analyze financial problems, and identify and define the computing technologies appropriate to its solution
PLO d	design, implement, and evaluate a computer-based system, process, component, or programme to solve financial applications with appropriate consideration for public health and safety, social and environmental considerations
PLO e	function effectively on teams to accomplish a common goal
PLO f	demonstrate an understanding of professional, ethical, legal, security and social issues and responsibilities
PLO g	communicate effectively with a range of audiences
PLO h	analyze the local and global impact of financial technology on individuals, organizations, and society
PLO i	recognize the need for and an ability to engage in continuing professional development
PLO j	use current techniques, skills, and tools necessary for computing practice to solve financial problems with an understanding of the limitations

Programme Structure

2nd Major / Minor(s) / FinTech Electives / Free Electives

(90 credits)

FinTech Major (96 credits)

FinTech Cores	FinTech Electives	Capstone
(54 credits)	(30 credits)	(12 credits)

University Requirements

(36 credits or 42 credits#)

BASc Cores

(18 credits)

Students without level 5 or above in HKDSE English Language (or equivalent) are required to take 6 additional credits in Core University English and complete 246 credits for graduation.

Programme Structure

- University Requirements
  - English in the Discipline (6 credits)
  - Chinese language (6 credits)
  - Common Core courses (24 credits)
  - Non-credit bearing course
  - Core University English (if required - 6 credits)
- BASc Core courses
  - Approaching Interdisciplinarity: Knowledge Beyond Disciplines (6 credits)
  - Data Science 101 (6 credits)
  - Sustainable Leadership (6 credits)

- FinTech Major
  - Core Courses (54 credits)
    - Computer programming I
    - Foundations of FinTech Programming
    - Linear algebra, probability and statistics
    - Introduction to financial technologies
    - Distributed ledger and blockchain
    - Introduction to financial accounting
    - Introductory microeconomics
    - Corporate finance
    - Regulation of financial markets
  - FinTech Elective Courses (30 credits)
    - AI, Machine Learning, Security, NLP, Big Data, E-Payment, Investment, Derivatives, IT Law, Finance Regulation, etc.
  - Capstone Project (12 credits)

Further Enquires

- BASc(FinTech) programme
    - Programme Director – Dr. K. P. Chow
        - Email: chow@cs.hku.hk

    - Academic Advisor – Dr. Anthony Tam
    (First Year Advisor)
        - Email: atctam@cs.hku.hk

    - First Year Advisor – Dr. John Yuen
        - Email: thyuen@cs.hku.hk
- For enrollment issues and general enquiries, please contact CS General Office
    - Office: Rm301, Chow Yei Ching Building
    Email: enroll@cs.hku.hk

Information

- Regulations and Syllabus for the degree of BASc(FinTech)
  - https://engg.hku.hk/Teaching-Learning/BEng-BASc/Academic-Programmes/Regulations-Syllabuses

- BASc(FinTech) Web site:
  - https://www.cs.hku.hk/fintech-home
  - Advising Page: https://www.cs.hku.hk/programmes/basc-fintech/academic-advising

- First Year Experience Website
  - https://www.fye.hku.hk/