

ANNEX A

NEW UNDERGRADUATE OFFERINGS FOR ACADEMIC YEAR 2019/2020

Double Major in Mathematical and Computer Sciences

NTU's new Double Major Bachelor of Science in Mathematical and Computer Sciences programme, offered jointly by the School of Physical and Mathematical Sciences and the School of Computer Science and Engineering, is similar to undergraduate programmes offered in renowned institutions such as the University of Oxford and the University of Edinburgh.

A distinctive feature of the programme is the option of specialisation areas, which allows students to develop in-depth expertise in a focus area that will lead them into a specialised role in the workforce. Three of the four specialisation areas offered in this double major programme – namely Cryptography and Cybersecurity, Data Science, and Financial Modelling – are unique to the programme.

Students will go through an essential set of core courses in both Mathematical Sciences and Computer Science, laying the foundation for students to venture right into specialisation areas of their interest. This terse design means that students will receive the necessary expert training in a shorter period of four years, as opposed to the five years required in similar programmes in Singapore.

Double Major Bachelor in Biomedical Sciences and BioBusiness

NTU's Nanyang Business School (NBS) and the Copenhagen Business School (CBS) are collaborating to run the Double Major Bachelor in Biomedical Sciences and BioBusiness programme.

CBS has four years of experience in running the BioBusiness component in a Masters in Business Administration and Bioentrepreneurship, which has received good feedback from its industry partners.

In the next few years, graduates who are cross-trained in biomedicine/ biotechnology and business/ management will have higher value as they can more efficiently run the business of companies in the pharmaceutical and biotechnology industry, and also support the growing medical technology industry.

Minor in International Trading

The Minor in International Trading, offered by NBS's Centre of Excellence International Trading (CEIT), will be open to business and engineering students.

CEIT currently offers the International Trading Programme (ITP) to business, engineering and maritime studies students as a track option within the specialisation of their programmes.

The new Minor comes on the heels of a healthily growing commodity trading sector. CEIT's corporate partners saw the need to raise the intake for ITP, as the current intake is still not enough to meet the high demand for graduates in the commodity industry.

Co-operative Education track

The Co-operative Education track, offered by the NTU School of Physical and Mathematical Sciences (SPMS), aims to improve employability of its graduates by marrying classroom-based education and practical work experience.

Students on this track are to complete three internships totalling 50 weeks. The internship periods fall in:

- Year 1 Special Semesters I & II (10 weeks),
- Year 2 Special Semesters I & II (10 weeks), and
- Year 3 Semester 2 and Special Semesters I & II OR Year 3 Special Semesters I & II and Year 4 Semester 1 (30 weeks).

Students must successfully secure an internship placement with a participating industrial partner to be admitted to the co-operative education track.

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