

## NTU Entrance Examination Paper Requirements

Check the following table to confirm the papers you will be taking:

### Engineering & IT

| Programme   | English | Maths A-Level | Maths AO-Level | Physics | Chemistry |
|---|---------|---------------|----------------|---------|-----------|
| Aerospace Engineering * +   | X       | X             |                | X       |           |
| Aerospace Engineering with a Second Major in Entrepreneurship                                 | X       | X             |                | X       |           |
| Aerospace Engineering with a Second Major in Data Analytics <sup>NEW</sup>                    | X       | X             |                | X       |           |
| Bioengineering * +  | X       | X             |                | X #     | X #       |
| Bioengineering with a Second Major in Data Analytics <sup>NEW</sup>                           | X       | X             |                | X #     | X #       |
| Bioengineering with a Second Major in Entrepreneurship  | X       | X             |                | X #     | X #       |
| Bioengineering with a Second Major in Food Science & Technology                               | X       | X             |                | X       |           |
| Bioengineering with a Second Major in Pharmaceutical Engineering                              | X       | X             |                | X #     | X #@      |
| Business & Computing  | X       | X             |                | X #     | X #       |
| Business & Computer Engineering   | X       | X             |                | X       |           |
| Chemical & Biomolecular Engineering * +   | X       | X             |                | X #     | X #       |
| Chemical and Biomolecular Engineering with a Second Major in in Data Analytics <sup>NEW</sup> | X       | X             |                | X #     | X #       |
| Chemical and Biomolecular Engineering with a Second Major in Entrepreneurship                 | X       | X             |                | X #     | X #       |
| Chemical & Biomolecular Engineering with a Second Major in Food Science & Technology          | X       | X             |                | X       |           |
| Civil Engineering * +   | X       | X             |                | X       |           |
| Civil Engineering with a Second Major in Data Analytics <sup>NEW</sup>                        | X       | X             |                | X       |           |
| Civil Engineering with a Second Major in Entrepreneurship                                     | X       | X             |                | X       |           |
| Civil Engineering with a Second Major in Society and Urban Systems                            | X       | X             |                | X       |           |
| Computer Engineering * +  | X       | X             |                | X       |           |
| Computer Engineering with a Second Major in Data Analytics <sup>NEW</sup>                     | X       | X             |                | X       |           |

| Programme  | English | Maths A-Level | Maths AO-Level | Physics | Chemistry |
|--|---------|---------------|----------------|---------|-----------|
| Computer Engineering with a Second Major in Entrepreneurship                               | X       | X             |                | X       |           |
| Computer Science * +   | X       | X             |                | X #     | X #       |
| Computer Science with a Second Major in Entrepreneurship                                   | X       | X             |                | X #     | X #       |
| Data Science and Artificial Intelligence   | X       | X             |                | X #     | X #       |
| Electrical & Electronic Engineering * +  | X       | X             |                | X       |           |
| Electrical and Electronic Engineering with a Second Major in Data Analytics <sup>NEW</sup> | X       | X             |                | X       |           |
| Electrical and Electronic Engineering with a Second Major in Entrepreneurship              | X       | X             |                | X       |           |
| Electrical And Electronic Engineering with a Second Major in Society and Urban Systems     | X       | X             |                | X       |           |
| Engineering +  | X       | X             |                | X       |           |
| Environmental Engineering * +  | X       | X             |                | X       |           |
| Environmental Engineering with a with a Second Major in Data Analytics <sup>NEW</sup>      | X       | X             |                | X       |           |
| Environmental Engineering with a with a Second Major in Entrepreneurship                   | X       | X             |                | X       |           |
| Environmental Engineering with a Second Major In Society And Urban Systems                 | X       | X             |                | X       |           |
| Information Engineering & Media * +  | X       | X             |                | X       |           |
| Information Engineering & Media with a Second Major in Data Analytics <sup>NEW</sup>       | X       | X             |                | X       |           |
| Information Engineering & Media with a Second Major in Entrepreneurship                    | X       | X             |                | X       |           |
| Materials Engineering * +  | X       | X             |                | X #     | X #       |
| Materials Engineering with a Second Major in Data Analytics <sup>NEW</sup>                 | X       | X             |                | X #     | X #       |
| Materials Engineering with a Second Major in Entrepreneurship                              | X       | X             |                | X #     | X #       |
| Materials Engineering with a Second Major in Pharmaceutical Engineering                    | X       | X             |                | X #     | X #@      |
| Materials Engineering with a Second Major in Medical Biology                               | X       | X             |                | X #     | X #@      |
| Mechanical Engineering * +   | X       | X             |                | X       |           |
| Mechanical Engineering with a Second Major in Data Analytics <sup>NEW</sup>                | X       | X             |                | X       |           |
| Mechanical Engineering with a Second Major in Entrepreneurship                             | X       | X             |                | X       |           |
| Mechanical Engineering with a Second Major in Society and Urban Systems                    | X       | X             |                | X       |           |
| Maritime Studies ▲   | X       |               | X              |         |           |

| Programme   | English | Maths A-Level | Maths AO-Level | Physics | Chemistry |
|---|---------|---------------|----------------|---------|-----------|
| Maritime Studies with a Second Major in Business ▲                      | X       |               | X              |         |           |
| Maritime Studies with a Second Major in Data Analytics ▲ <sup>NEW</sup> | X       | X             |                |         |           |
| Renaissance Engineering Programme                                       | X       | X             |                | X       |           |

## Science

| Programme  | English | Maths A-Level | Maths AO-Level | Physics | Chemistry |
|--|---------|---------------|----------------|---------|-----------|
| Biological Sciences  | X       | X ^           |                | X ^     | X         |
| Biological Sciences and Psychology (Double Major)  | X       | X ^           |                | X ^     | X         |
| Biological Sciences with a Second Major in Data Analytics <sup>NEW</sup>                 | X       | X             |                | X #     | X #       |
| Biological Sciences with a Second Major in Food Science & Technology                     | X       | X             |                |         | X         |
| Biological Sciences with a Second Major in Medicinal Chemistry and Pharmacology          | X       | X             |                |         | X         |
| Biological Sciences with a Second Major in Biomedical Structural Biology                 | X       | X ^           |                | X ^     | X         |
| Biomedical Sciences and BioBusiness (Double Major)                                       | X       | X ^           |                | X ^     | X         |
| Biomedical Sciences & Chinese Medicine   | X       | X ^           |                | X ^     | X         |
| Chemistry & Biological Chemistry   | X       | X ^           |                | X ^     | X         |
| Chemistry & Biological Chemistry with a Second Major in Business (International Trading) | X       | X ^           |                | X ^     | X         |
| Chemistry & Biological Chemistry with a Second Major in Data Analytics <sup>NEW</sup>    | X       | X             |                |         | X         |
| Chemistry & Biological Chemistry with a Second Major in Environmental Science            | X       | X ^           |                | X ^     | X         |
| Chemistry & Biological Chemistry with a Second Major in Food Science & Technology        | X       | X ^           |                | X ^     | X         |
| Environmental Earth Systems Science  | X       |               | X              | X #     | X #       |
| Environmental Earth Systems Science with a Second Major in Data Analytics <sup>NEW</sup> | X       | X             |                | X #     | X #       |
| Environmental Earth Systems Science and Public Policy & Global Affairs (Double Major)    | X       |               | X              | X #     | X #       |
| Mathematical and Computer Sciences (Double Major)  | X       | X             |                | X       |           |
| Mathematical Sciences and Economics (Double Major)                                       | X       | X             |                | X       |           |
| Mathematical Sciences  | X       | X             |                | X       |           |
| Mathematical Sciences with a Minor in Finance  | X       | X             |                | X       |           |
| Mathematical Sciences with a Second Major in Data Analytics <sup>NEW</sup>               | X       | X             |                | X #     | X #       |
| Physics / Applied Physics  | X       | X             |                | X       |           |

| Programme  | English | Maths A-Level | Maths AO-Level | Physics | Chemistry |
|--|---------|---------------|----------------|---------|-----------|
| Physics / Applied Physics with a Second Major in Data Analytics <sup>NEW</sup> | X       | X             |                | X       |           |
| Physics and Mathematical Sciences (Double Major)                               | X       | X             |                | X       |           |
| Applied Physics with a Second Major in Medical Physics <sup>NEW</sup>          | X       | X             |                | X #     | X #@      |
| Applied Physics with a Second Major in Microelectronics Engineering            | X       | X             |                | X       |           |
| Sport Science & Management ▲   | X       |               | X              |         |           |

## Medicine

| Programme | English | Maths A-Level | Maths AO-Level | Physics | Chemistry |
|-----------|---------|---------------|----------------|---------|-----------|
| Medicine  | X       |               |                | X       | X         |

## Accountancy & Business

| Programme  | English | Maths A-Level | Maths AO-Level | Physics | Chemistry |
|--|---------|---------------|----------------|---------|-----------|
| Accountancy  | X       |               | X              |         |           |
| Business   | X       |               | X              |         |           |
| Accountancy and Business (Double Degree)                         | X       |               | X              |         |           |
| Accountancy and Data Science & Artificial Intelligence           | X       | X             |                | X #     | X #       |
| Accountancy and Business with a Minor in International Trading   | X       |               | X              |         |           |
| Accountancy and Business with a Second Major in Entrepreneurship | X       |               | X              |         |           |
| Accountancy with a Minor in Strategic Communication              | X       |               | X              |         |           |
| Accountancy with a Minor in International Trading                | X       |               | X              |         |           |
| Accountancy with a Minor in Digitalisation and Data Analytics    | X       |               | X              |         |           |
| Accountancy with a Second Major in Entrepreneurship              | X       |               | X              |         |           |
| Business with a Minor in Strategic Communication                 | X       |               | X              |         |           |
| Business with a Minor in International Trading                   | X       |               | X              |         |           |
| Business with a Second Major in Entrepreneurship                 | X       |               | X              |         |           |

## Humanities, Arts, & Social Sciences

| Programme  | English | Maths A-Level | Maths AO-Level | Physics | Chemistry |
|--|---------|---------------|----------------|---------|-----------|
| Art, Design & Media  | X       |               | X              |         |           |
| Communication Studies  | X       |               | X              |         |           |
| Communication Studies with a Second Major in Governance and International Relations <sup>NEW</sup> | X       |               | X              |         |           |

| Programme  | English | Maths A-Level | Maths AO-Level | Physics | Chemistry |
|--|---------|---------------|----------------|---------|-----------|
| Communication Studies with a Second Major in Business              | X       | X             |                |         |           |
| Economics  | X       |               | X              |         |           |
| Economics with a Second Major in Business                          | X       |               | X              |         |           |
| English Literature   | X       |               | X              |         |           |
| English Literature and Art History (Double Major)                  | X       |               | X              |         |           |
| English and History (Double Major)                                 | X       |               | X              |         |           |
| English and Philosophy (Double Major)                              | X       |               | X              |         |           |
| Chinese and English (Double Major)                                 | X       |               | X              |         |           |
| History  | X       |               | X              |         |           |
| History and Chinese (Double Major)                                 | X       |               | X              |         |           |
| History and Linguistics and Multilingual Studies (Double Major)    | X       |               | X              |         |           |
| Linguistics and Multilingual Studies                               | X       |               | X              |         |           |
| Linguistics and Multilingual Studies and English (Double Major)    | X       |               | X              |         |           |
| Linguistics and Multilingual Studies and Philosophy (Double Major) | X       |               | X              |         |           |
| Chinese and Linguistics and Multilingual Studies (Double Major)    | X       |               | X              |         |           |
| Psychology   | X       |               | X              |         |           |
| Philosophy   | X       |               | X              |         |           |
| Philosophy and Chinese (Double Major)                              | X       |               | X              |         |           |
| Philosophy and History (Double Major)                              | X       |               | X              |         |           |
| Public Policy and Global Affairs                                   | X       |               | X              |         |           |
| Sociology  | X       |               | X              |         |           |
| Economics and Data Science ▲                                       | X       | X             |                | X #     | X #       |
| Economics and Media Analytics (Double Major)                       | X       | X             |                |         |           |
| Economics and Psychology (Double Major)                            | X       | X             |                |         |           |
| Economics and Public Policy & Global Affairs (Double Major)        | X       | X             |                |         |           |
| Psychology and Media Analytics (Double Major)                      | X       | X             |                |         |           |
| Psychology and Linguistics & Multilingual Studies (Double Major)   | X       | X             |                |         |           |
| Psychology with a Second Major in Biological Sciences              | X       | X ♦           | X ♦            | X #     | X #       |

▲ either Maths (A- Level) or Physics

# either Physics or Chemistry

@ Candidate can choose to sit for Chemistry paper provided he/she has taken up Senior High School Level Physics.

♦ either Maths A-Level or AO-Level

\* The programme is also offered as a double degree programme with Economics as well as a single degree programme with Second Major in Business and Second Major in Entrepreneurship. Paper requirements will follow the single degree requirements.

+ The programme is also offered as a single degree programme with a Minor in Business and a Minor in International Trading. Paper requirements will follow the single degree requirements.

▲ Programmes leading to a Bachelor of Science degree.

**NOTE:**

Shortlisted candidate will sit for 2 – 5 papers, depending on all the choices of programmes indicated in the application form. If choices consist of both Engineering/Science and non-Engineering/Science programmes, Maths (A-Level) will be required in order to qualify for admission to all the choices.

| Example | Choices (1 <sup>st</sup> to 5 <sup>th</sup> )   | Papers required to be taken                  |
|---------|---|--|
| 1       | Computer Science; Engineering; Biological Sciences; Business; Environmental Earth Systems Science | English, Maths 'A' Level, Physics, Chemistry |
| 2       | Business & Computing; Business; Economics; Psychology; History                                    | English, Maths 'A' Level, Physics            |
| 3       | Business; Economics and Psychology; Communication Studies; Psychology; English Literature         | English, Maths 'A' Level                     |

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