Programme Overview and Subject Prerequisites for Singapore-Cambridge GCE ‘A’ Level

Engineering/IT > Accountancy and Business > Humanities, Arts, and Social Sciences > Sciences

Medicine > Sport Science and Management > Education

Skip Overview

Apply to NTU: Singapore-Cambridge GCE ‘A’ Level
Admissions: adm_local@ntu.edu.sg
### Engineering/IT

#### Double Degree with Main Programme

<table>
<thead>
<tr>
<th>Main Programme</th>
<th>Economics</th>
<th>Business</th>
<th>Food Science &amp; Technology</th>
<th>Pharmaceutical Engineering</th>
<th>Medical Biology</th>
<th>Society &amp; Urban Systems</th>
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</thead>
<tbody>
<tr>
<td>Renaissance Engineering</td>
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<td>Common Engineering</td>
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<td>Data Science and Artificial Intelligence</td>
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<td>Computer Science</td>
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<td>Information Engineering and Media</td>
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<td>Chemical and Biomolecular Engineering</td>
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<td>Bioengineering</td>
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<td>Materials Engineering</td>
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<td>Civil Engineering</td>
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<td>Environmental Engineering</td>
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<td>Electrical and Electronic Engineering</td>
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<td>Mechanical Engineering</td>
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<td>Aerospace Engineering</td>
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<td>Maritime Studies</td>
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<tr>
<td>Maritime Studies (Double Major)</td>
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</table>

#### See Also

- Sciences:
  - Biological Sciences
  - Chemistry and Biological Chemistry
  - Mathematical and Computer Sciences (Double Major)

### Accountancy and Business

#### Double Degree with Main Programme

<table>
<thead>
<tr>
<th>Main Programme</th>
<th>Accountancy</th>
<th>Business</th>
<th>Business</th>
<th>Predictive &amp; Forensic Analytics</th>
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</thead>
<tbody>
<tr>
<td>Accountancy</td>
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<tr>
<td>Business</td>
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</tbody>
</table>

#### See Also

- Mass Communication:
  - Communication Studies
  - Computer Science and Engineering:
### Humanities, Arts, and Social Sciences

**Main Programme**
- Mass Communication:
- Communication Studies
- Fine and Applied Arts:
- Art, Design and Media
- Humanities:
- Chinese
- English Literature
- History
- Linguistics and Multilingual Studies
- Philosophy
- Social Sciences:
- Economics
- Psychology
- Public Policy and Global Affairs
- Sociology

**See Also**
- Sciences:
  - Biological Sciences
  - Mathematical Sciences
  - Environmental Earth Systems Science

### Sciences

**Main Programme**
- **NEW** Biomedical Sciences and BioBusiness (Double Major)
- Biomedical Sciences and Chinese Medicine (Double Degree)
- Chemistry and Biological Chemistry
- Physics/Applied Physics
- Mathematical Sciences
- **NEW** Mathematical and Computer Sciences (Double Major)
- Environmental Earth Systems Science

**See Also**
- Engineering/IT:
  - Chemical and Biomolecular Engineering
  - Bioengineering
  - Computer Science
  - Social Sciences:
  - Psychology
### Office of Admissions

**Admissions | Subject Prerequisites**

#### Minimum Subject Requirements for Singapore-Cambridge GCE ‘A’ Level

<table>
<thead>
<tr>
<th>PROGRAMME</th>
<th>MINIMUM SUBJECT REQUIREMENTS</th>
<th>SELECTION TEST/INTERVIEW</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>RENAISSANCE ENGINEERING PROGRAMME</strong></td>
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<tr>
<td>• Renaissance Engineering Programme*</td>
<td>H2 Level pass in Mathematics and H2 Level pass in Physics/Chemistry/Biology/Computing and H1 Level/O’ Level pass in Physics/equivalent+</td>
<td>Yes</td>
</tr>
</tbody>
</table>

* Programme leading to Bachelor of Engineering Science and Master of Science in Technology Management
+ H1 Level/O’ Level pass in Physics/equivalent is only applicable to applicants who have not read Physics at H2 Level.

<table>
<thead>
<tr>
<th>PROGRAMME</th>
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<td><strong>COLLEGE OF ENGINEERING</strong></td>
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<tr>
<td>Common Engineering</td>
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<tr>
<td>• Engineering^@£</td>
<td>H2 Level pass in Mathematics and H2 Level pass in Physics/Chemistry/Biology/Computing and H1 Level/O’ Level pass in Physics/equivalent+</td>
<td></td>
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</tbody>
</table>

^ The programme is also offered as a single degree programme with a Minor in Business.
@ Students who are undecided on their Engineering major may opt for Engineering (i.e. Common Engineering) at the point of application. All Common Engineering students will read a semester of engineering studies after which they will be streamed into either Civil Engineering, Electrical and Electronic Engineering, Environmental Engineering, Materials engineering or Mechanical Engineering at the end of Year 1, Semester 1. In all cases, admissions and streaming into an engineering major are merit-based.
+ H1 Level/O’ Level pass in Physics/equivalent is only applicable to applicants who have not read Physics at H2 Level.
£ The programme is also offered as a single degree programme with a Minor in International Trading.

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<th>PROGRAMME</th>
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<tr>
<td><strong>COLLEGE OF ENGINEERING</strong></td>
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<tr>
<td>School of Chemical and Biomedical Engineering (SCBE)</td>
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<tr>
<td>• Bioengineering*^£</td>
<td>H2 Level pass in Mathematics and H2 Level pass in Physics/Chemistry/Biology/Computing</td>
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<tr>
<td>• Bioengineering with a Second Major in Business</td>
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<tr>
<td>• Chemical and Biomolecular Engineering*^£</td>
<td>H2 Level pass in Mathematics and H2 Level pass in Physics/Chemistry/Biology/Computing and H1 Level/O’ Level pass in Physics/equivalent+</td>
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<tr>
<td>• Chemical and Biomolecular Engineering with a Second Major in Business</td>
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<tr>
<td>• Bioengineering with a Second Major in Food Science and Technology</td>
<td>H2 Level pass in Mathematics and H2 Level pass in Physics/Chemistry/Biology/Computing and H1 Level/O’ Level pass in Physics/equivalent+</td>
<td>Yes</td>
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<tr>
<td>• Chemical and Biomolecular Engineering with a Second Major in Food Science and Technology</td>
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<tr>
<td>• Bioengineering with a Second Major in Pharmaceutical Engineering</td>
<td>H2 Level pass in Mathematics and H2 Level pass in Physics/Chemistry/Biology/Computing and H1 Level/O’ Level pass in Physics/equivalent+</td>
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* The programme is also offered as a double degree programme with Economics.
^ The programme is also offered as a single degree programme with a Minor in Business.
+ H1 Level/O’ Level pass in Physics/equivalent is only applicable to applicants who have not read Physics at H2 Level.
£ The programme is also offered as a single degree programme with a Minor in International Trading.
### COLLEGE OF ENGINEERING

#### School of Civil and Environmental Engineering (CEE)

- **Civil Engineering**<sup>*</sup><sup>£</sup>
- **Environmental Engineering**<sup>*</sup><sup>£</sup>
- **Civil Engineering with a Second Major in Business**
- **Environmental Engineering with a Second Major in Business**

<table>
<thead>
<tr>
<th>Programme</th>
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<tr>
<td>Civil Engineering</td>
<td>H2 Level pass in Mathematics and H2 Level pass in Physics/Chemistry/Biology/Computing and H1 Level/O’ Level pass in Physics/equivalent+</td>
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<tr>
<td>Environmental Engineering</td>
<td>H2 Level pass in Mathematics and H2 Level pass in Physics/Chemistry/Biology/Computing and H1 Level/O’ Level pass in Physics/equivalent+</td>
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<tr>
<td>Civil Engineering with a Second Major in Business</td>
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<tr>
<td>Environmental Engineering with a Second Major in Business</td>
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<tr>
<td>Maritime Studies §</td>
<td>H1 Level pass in Mathematics or ‘O’ Level/equivalent pass in Additional Mathematics and H1 Level/O’ Level pass in a Science subject</td>
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<tr>
<td>Maritime Studies with a Second major in Business §</td>
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* The programme is also offered as a double degree programme with Economics.

<sup>£</sup> The programme is also offered as a single degree programme with a Minor in International Trading.

<sup>NEW</sup> H1 Level pass in Physics/equivalent is only applicable to applicants who have not read Physics at H2 Level.

<sup>§</sup> Programmes leading to Bachelor of Science degree

<sup>§</sup> Programme leading to Bachelor of Science degree

<sup>NEW</sup> The programme is also offered as a single degree programme with a Minor in Business.

#### School of Computer Science and Engineering (SCSE)

- **Computer Engineering**<sup>*</sup><sup>£</sup>
- **Computer Engineering with a Second Major in Business**
- **Business and Computer Engineering (Double Degree)**
- **Computer Science**<sup>*</sup><sup>£</sup>
- **Computer Science with a Second Major in Business**
- **Business and Computing (Double Degree)**
- **Data Science and Artificial Intelligence**<sup>NEW</sup>

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<thead>
<tr>
<th>Programme</th>
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<tr>
<td>Computer Engineering</td>
<td>H2 Level pass in Mathematics and H2 Level pass in Physics/Chemistry/Biology/Computing and H1 Level/O’ Level pass in Physics/equivalent+</td>
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<tr>
<td>Computer Engineering with a Second Major in Business</td>
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<tr>
<td>Business and Computer Engineering (Double Degree)</td>
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<tr>
<td>Computer Science</td>
<td>H2 Level pass in Mathematics and H2 Level pass in Physics/Chemistry/Biology/Computing</td>
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<td>Computer Science with a Second Major in Business</td>
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<td>Business and Computing (Double Degree)</td>
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<tr>
<td>Data Science and Artificial Intelligence</td>
<td>H2 Level pass in Mathematics and H2 Level pass in Physics/Chemistry/Biology/Computing</td>
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* The programme is also offered as a double degree programme with Economics.

<sup>£</sup> The programme is also offered as a single degree programme with a Minor in International Trading.

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<sup>§</sup> Programmes leading to Bachelor of Science degree

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<tbody>
<tr>
<td>School of Electrical and Electronic Engineering (EEE)</td>
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<tr>
<td>• Electrical and Electronic Engineering*^£</td>
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<tr>
<td>• Information Engineering and Media*^£</td>
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<tr>
<td>• Electrical and Electronic Engineering with a Second Major in Business</td>
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<tr>
<td>• Information Engineering and Media with a Second Major in Business</td>
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<tr>
<td>• Electrical and Electronic Engineering with a Second Major in Society and Urban Systems</td>
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<tr>
<th>College of Engineering</th>
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<tbody>
<tr>
<td>School of Materials Science and Engineering (MSE)</td>
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<tr>
<td>• Materials Engineering*^£</td>
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<tr>
<td>• Materials Engineering with a Second Major in Business</td>
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<td>• Materials Engineering with a Second Major in Pharmaceutical Engineering</td>
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<td>• Materials Engineering with a Second Major in Medical Biology</td>
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<tr>
<th>College of Engineering</th>
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<tbody>
<tr>
<td>School of Mechanical and Aerospace Engineering (MAE)</td>
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<tr>
<td>• Aerospace Engineering*^£</td>
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<tr>
<td>• Mechanical Engineering*^£</td>
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<tr>
<td>• Aerospace Engineering with a Second Major in Business</td>
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<tr>
<td>• Mechanical Engineering with a Second Major in Business</td>
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<tr>
<td>• Mechanical Engineering with a Second Major in Society and Urban Systems</td>
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</table>
## Programme Minimum Subject Requirements Selection Test/Interview

### COLLEGE OF SCIENCE

#### School of Biological Sciences (SBS)

- **Biological Sciences[^]**
  - H1 Level pass in Mathematics and
  - H2 Level pass in Physics/Chemistry/Biology
  - On a selective basis

- **Biological Sciences and Psychology (Double Major)**
  - A good grade in H1 Level Mathematics and
  - H2 Level pass in Physics/Chemistry/Biology and
  - a good grade in General Paper/Knowledge & Inquiry
  - On a selective basis

- **Biological Sciences with a Second Major in Food Science and Technology**
  - H2 Level pass in Mathematics and
  - H2 Level pass in Physics/Chemistry/Biology; or
  - H1 Level pass in Mathematics and
  - any two H2 Level passes in Physics/Chemistry/Biology
  - On a selective basis

- **Biological Sciences with a Second Major in Medicinal Chemistry and Pharmacology**
  - H1 Level pass in Mathematics and
  - H2 Level pass in Chemistry
  - On a selective basis

- **Biological Sciences with a Second Major in Biomedical Structural Biology**
  - H1 Level pass in Mathematics and
  - H2 Level pass in Physics/Chemistry/Biology
  - On a selective basis

- **Biological Sciences with a Second Major in Biomedical Materials**
  - H2 Level pass in Mathematics and
  - H2 Level pass in Physics/Chemistry/Biology and
  - H1 Level/O’ Level pass in Physics/equivalent[^+]
  - On a selective basis

- **Biomedical Sciences and BioBusiness[^]** (Double Major)
  - H1 Level pass in Mathematics and
  - H2 Level pass in Physics/Chemistry/Biology
  - On a selective basis

- **Biomedical Sciences and Chinese Medicine (Double Degree)**
  - H1 Level pass in Mathematics and
  - H2 Level pass in Physics/Chemistry/Biology and
  - ‘O’ Level pass in Chinese
  - On a selective basis

[^]: The programme is also offered as a single degree programme with a Minor in Business.
[^+]: H1 Level/O’ Level pass in Physics/equivalent is only applicable to applicants who have not read Physics at H2 Level.

### COLLEGE OF SCIENCE

#### School of Physical and Mathematical Sciences (SPMS)

- **Chemistry and Biological Chemistry**
  - H2 Level pass in Chemistry and
  - H2 Level pass in Mathematics/Physics

- **Chemistry and Biological Chemistry with a Second Major in Food Science and Technology**
  - H2 Level pass in Chemistry and
  - H2 Level pass in Mathematics/Physics

- **Mathematical Sciences Σ**
  - H2 Level pass in Mathematics

- **Mathematical and Computer Sciences[^]** (Double Major)
  - H2 Level pass in Mathematics and
  - H2 Level pass in Physics/Chemistry/Biology/Computing

- **Mathematical Sciences and Economics[^]** (Double Major)
  - H2 Level pass in Mathematics and
  - a good grade in General Paper/Knowledge & Inquiry
  - On a selective basis

- **Physics/Applied Physics**
- **Physics with a Second Major in Mathematical Sciences**
  - H2 Level pass in Physics and Mathematics

[^]: The programme is also offered as a single degree programme with a Minor in Finance.
<table>
<thead>
<tr>
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<tr>
<td><strong>COLLEGE OF SCIENCE</strong></td>
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<tr>
<td>Asian School of the Environment (ASE)</td>
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<tr>
<td>• Environmental Earth Systems Science</td>
<td>H1 Level pass in Mathematics and H2 Level pass in Physics/Chemistry/Biology/Computing/Economics</td>
<td>On a selective basis</td>
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<tr>
<td>• Environmental Earth Systems Science and Public Policy &amp; Global Affairs (Double Major)</td>
<td>H1 Level pass in Mathematics and H2 Level pass in Physics/Chemistry/Biology/Computing/Economics, and a good grade in General Paper/Knowledge &amp; Inquiry/H1 Level History/English Literature/Geography</td>
<td>On a selective basis</td>
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<tr>
<td><strong>LEE KONG CHIAN SCHOOL OF MEDICINE</strong></td>
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<tr>
<td>• Medicine</td>
<td>H2 Level pass in Chemistry and H2 Level pass in Biology/Physics</td>
<td>Yes</td>
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<td>In addition, applicants are required to submit the following materials for admissions assessment:</td>
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<td>1. Academic results</td>
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<td>2. Personal statement</td>
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<td>3. Details of exceptional talents and/or outstanding achievements beyond school co-curricular activities (only if the applicant would like to be considered under Discretionary Admissions)</td>
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<td>4. Two online referee reports (The online referee report is in question and answer format. The questions will take no more than 10 minutes to complete. Instructions and login details will be provided to applicants who will in turn forward the login information to their referees.)</td>
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<td></td>
<td><strong>BioMedical Admissions Test (BMAT)</strong></td>
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<td></td>
<td>Applicants will have to register for the Biomedical Admissions Test (BMAT) and take the BMAT as part of the criteria for entry to the Lee Kong Chian School of Medicine (LKCMedicine) programme. Applicants take the BMAT around October/November each year, prior to their application to LKCMedicine. Only results of the BMAT taken in the 12-month period prior to admission to LKCMedicine will be considered in the selection process. For more details on the BMAT, please refer to <a href="http://www.bmat.org.uk">http://www.bmat.org.uk</a>.</td>
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<td>For further details, please visit</td>
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<tr>
<td><strong>COLLEGE OF HUMANITIES, ARTS, AND SOCIAL SCIENCES</strong></td>
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<tr>
<td>School of Art, Design and Media (ADM)</td>
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<tr>
<td>• Art, Design and Media</td>
<td>'O' Level/equivalent pass in Mathematics and a good grade in General Paper/Knowledge &amp; Inquiry</td>
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<td></td>
<td>In addition, applicants are required to produce and submit the following materials for admissions assessment:</td>
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<tr>
<td></td>
<td>1. A Portfolio</td>
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<td>2. Personal Statement and Writing Samples</td>
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<td>3. A Creative Project</td>
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<td>4. Three Visuals</td>
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<td></td>
<td>For specific submission instructions and details, please refer to ADM Admissions Requirements.</td>
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</tbody>
</table>
## PROGRAMME MINIMUM SUBJECT REQUIREMENTS SELECTION TEST/INTERVIEW

### COLLEGE OF HUMANITIES, ARTS, AND SOCIAL SCIENCES

#### School of Humanities (SoH)

- **Chinese**  
  - Pass in H2 Level Chinese subjects or  
  - Good pass in H1 Level Chinese subjects or  
  - Good pass in ‘O’ Level Higher Chinese or  
  - Good pass in ‘O’ Level Chinese  
  - Yes

- **English Literature**  
  - A good grade in General Paper/Knowledge & Inquiry/ H1 or H2 Level Humanities subject  
  - Yes

- **History**  
  - A good grade in General Paper/Knowledge & Inquiry/ H1 or H2 Level Humanities subject  
  - Yes

- **Linguistics and Multilingual Studies**  
  - A good grade in General Paper/Knowledge & Inquiry/ H2 Level Humanities subject  
  - Yes

- **Philosophy**  
  - A good grade in General Paper/Knowledge & Inquiry/ H1 or H2 Level Humanities subject  
  - Yes

- **English Literature and Art History (Double Major)**  
  - A good grade in General Paper/Knowledge & Inquiry/ H1 or H2 Level Humanities subject  
  - Yes

- **Psychology and Linguistics & Multilingual Studies (Double Major)**  
  - A good grade in H1 Level Mathematics and  
  - a good grade in General Paper/Knowledge & Inquiry/ H2 Level Humanities subject  
  - Yes

† The programme is offered as a single degree programme with two distinct majors. Each Major carries equal weight in the degree.

### School of Social Sciences (SSS)

- **Economics**  
  - A good grade in H1 Level Mathematics and  
  - a good grade in General Paper/Knowledge & Inquiry  
  - On a selective basis

- **Psychology**  
  - A good grade in H1 Level Mathematics and  
  - a good grade in General Paper/Knowledge & Inquiry  
  - On a selective basis

- **Psychology with a Second Major in Biological Sciences**  
  - A good grade in H1 Level Mathematics and  
  - a good grade in General Paper/Knowledge & Inquiry and  
  - H1 Level pass in Physics/Chemistry/Biology  
  - On a selective basis

- **Public Policy and Global Affairs**  
  - A good grade in General Paper/Knowledge & Inquiry/H1 Level History/English Literature/Geography  
  - On a selective basis

- **Sociology**  
  - A good grade in General Paper/Knowledge & Inquiry  
  - On a selective basis

- **Economics and Media Analytics (Double Major)**  
  - A good grade in H2 Level Mathematics and  
  - a good grade in General Paper/Knowledge & Inquiry  
  - For the latter, at least B in order to be considered  
  - On a selective basis

- **Economics and Psychology (Double Major)**  
  - A good grade in H2 Level Mathematics and  
  - a good grade in General Paper/Knowledge & Inquiry  
  - On a selective basis

- **Economics and Public Policy & Global Affairs (Double Major)**  
  - A good grade in H2 Level Mathematics and  
  - a good grade in General Paper/Knowledge & Inquiry/H1 Level History/English Literature/Geography  
  - On a selective basis

- **Psychology and Media Analytics (Double Major)**  
  - A good grade in H1 Level Mathematics and  
  - a good grade in General Paper/Knowledge & Inquiry  
  - For the latter, at least B in order to be considered  
  - On a selective basis

† The programme is offered as a single degree programme with two distinct majors. Each Major carries equal weight in the degree.
<table>
<thead>
<tr>
<th>Programme</th>
<th>Minimum Subject Requirements</th>
<th>Selection Test/Interview</th>
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| **College of Humanities, Arts, and Social Sciences**<br>Wee Kim Wee School of Communication and Information (WKWSCI)**<br>**Communication Studies**<br>H1 Level pass in Mathematics or 'O' level/equivalent pass in Additional Mathematics and at least a B grade in General Paper/Knowledge & Inquiry<br>**Communication Studies with a Second Major in Business**<br>H1 Level pass in Mathematics or 'O' level/equivalent pass in Additional Mathematics and at least a B grade in General Paper/Knowledge & Inquiry | On a selective basis |}
| **Nanyang Business School**<br>**Accountancy † α £**<br>**Business † £**<br>**Accountancy and Business (Double Degree)**<br>H1 Level pass in Mathematics or 'O' level/equivalent pass in Additional Mathematics | On a selective basis |† The programme is also offered as a single degree programme with a Minor in Strategic Communication.<br>α The programme is also offered as a single degree programme with a Second Specialisation in Predictive and Forensic Analytics.<br>£ The programme is also offered as a single degree programme with a Minor in International Trading.|
| **Sport Science and Management**<br>**Sports Science and Management §**<br>H1 Level pass in Mathematics or 'O' level/equivalent pass in Additional Mathematics | On a selective basis |§ Programme leading to Bachelor of Science degree|
| **National Institute of Education**<br>**Arts (Education) ▲**<br>**Science (Education) ▲**<br>2 subjects at H1 Level, including a pass in General Paper/Knowledge & Inquiry, at one sitting and Pass in Mathematics at H1 Level/'O' Level<br>Pass in at least 5 subjects, including English as a First Language at 'O' Level | Yes |▲ These degree programmes offer many courses which may require further subject prerequisites. Please refer to the National Institute of Education (NIE) website for details.
### Summary of Subject Specialisation available to matriculated students

#### Art, Design and Media
- **DESIGN ART**
  - Interaction Design
  - Product Design
  - Visual Communication
- **MEDIA ART**
  - Animation
  - Filmmaking
  - Photography

#### Business
- Actuarial Science
- Banking and Finance
  - Applied Wealth Management
  - International Trading
  - Platform-Based Learning
- Business Analytics
- Human Resource Consulting
- Marketing
- Risk Management and Insurance

#### Mathematical Sciences
- Applied Mathematics
- Pure Mathematics
- Business Analytics
- Statistics

#### Mathematical and Computer Sciences
- Cryptography and Cybersecurity
- Data Science
- Financial Modelling
- Theoretical Computer Science

#### Physics / Applied Physics
- Physics
- Applied Physics

#### Environmental Earth Systems Science
- Ecology and Ecosystems
- Geosciences
- Society and the Earth System

#### Communication Studies
- Advertising
- Broadcast and Cinema Studies
- Communication Research and Information Analytics
- Journalism
- Public Relations

#### Education
- Language
- Physical Education and Sport Science

#### Aerospace Engineering
- Smart Manufacturing and Digital Factory
- Mechanical Engineering

#### Mechanical Engineering
- Smart Manufacturing and Digital Factory
- Aeronautical Engineering
- Energy and The Environment
- Manufacturing Engineering
- Naval Architecture and Marine Engineering
- Systems Engineering
- Design
- Robotics and Mechatronics

#### Materials Engineering
- Industrial Materials Engineering
- Innovation and Intellectual Property
- Medical Materials
- Nanoscience and Nanotechnology

#### Computer Engineering
- Artificial Intelligence
- Cyber Security
- Data Science and Analytics
- High Performance Computing
- Networking and Mobility
- Cyber Physical Systems

#### Computer Science
- Artificial Intelligence
- Cyber Security
- Data Science and Analytics
- High Performance Computing
- Networking and Mobility

#### Bioengineering
- Advanced Pharmaceutical Manufacturing
- Machine Learning and Data Analytics
- Intellectual Property for Bioengineering

#### Chemical and Biomolecular Engineering
- Advanced Pharmaceutical Manufacturing
- Machine Learning and Data Analytics
- Intellectual Property for Chemical and Biomolecular Engineering

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*Office of Admissions, Student and Academic Services Department*

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