FREQUENTLY ASKED QUESTIONS (SCHOOL OF BIOLOGICAL SCIENCES)

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*NEW* SECOND MAJOR IN DATA ANALYTICS PROGRAMME

How does data analytics complement my Biological Sciences Degree?

In which area of study must I do my FYP in?

What is Data Analytics and what does the Second Major entails?

Can I drop the Second Major after I got into the programme?

Do I have to choose the Second Major when I apply to NTU? Or can I opt to change to the second after I am admitted?

What are the additional courses I will have to take?

DOUBLE MAJOR PROGRAMMES

Double Major in Biological Sciences and Psychology

What are the study paths and jobs I can take after graduating from this double major programme?

Since this is a double major, can I pursue further studies in Psychology to become a Psychologist?

Would taking this double major put me at any disadvantage from a person who only did Psychology?

Also, would there be any difference in study paths and career prospects between the double major stated above as compared to Psychology with a second major in Biological Science?

Double Major in Biomedical Sciences and BioBusiness

What is BioBusiness?

NTU-DUKE-NUS MEDICINE PATHWAY

What is the entry requirement / application process for this track?

Will there be instances where I will lose this conditional admission throughout the course of my 4 years of study in NTU?

What is the interview process like – is it like Yong Loo Lin School of Medicine’s Multi-Mini Interviews?

Do shortlisted candidates have to write an essay & assemble 2 referee reports similar to Yong Loo Lin School of Medicine’s interview process?

When are the interviews held?

Who are the interviewers?

How long is each interview?

How many rounds of interview will there be?

Are there any scholarships available for this NTU-Duke-NUS Medicine Pathway?

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## ADMISSIONS

### When is the application period?

- **Spore-Cambridge A level** - day of A level result release to **19 March 2022**
- **A level Qualification application date**
  - 1 to **21 Feb 2022**
- **IBDP application date** 15 Oct 2021 – **19 Mar 2022**
- **NUSH application date** 01 Dec 2021 – **15 Jan 2022**

### What is the admission criteria?

<table>
<thead>
<tr>
<th>Programmes</th>
<th>GCE ‘A’ Level and Polytechnic Applicants</th>
<th>International Baccalaureate Diploma Applicants</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Biological Sciences</strong></td>
<td>At least H1/SL or equivalent pass in Mathematics and a good H2/HL/A Level or equivalent pass in Physics, Chemistry or Biology</td>
<td>Mathematics at Standard Level and Physics/ Chemistry/ Biology at Higher Level</td>
</tr>
<tr>
<td><strong>Biological Sciences with Second Major in:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Biomedical Structural Biology</strong></td>
<td>At least H1/SL or equivalent pass in Mathematics and a good H2/HL/A Level or equivalent pass in Physics, Chemistry or Biology</td>
<td>Mathematics at Standard Level and Physics/ Chemistry/ Biology at Higher Level</td>
</tr>
<tr>
<td><strong>Medicinal Chemistry and Pharmacology</strong></td>
<td>At least H1/SL or equivalent pass in Mathematics and a good H2/HL/A Level or equivalent pass in Physics, Chemistry or Biology; H2 Level pass in Chemistry</td>
<td>Mathematics at Standard Level and Chemistry at Higher Level</td>
</tr>
<tr>
<td><strong>Food Science and Technology</strong></td>
<td>At least H2 or equivalent pass in Mathematics and a H2 Level or equivalent pass in Physics, Chemistry or Biology; OR At least H1 or equivalent pass in Mathematics and two H2 Level or equivalent pass in Physics, Chemistry or Biology</td>
<td>Mathematics at Higher Level and Physics/Chemistry/Biology at Higher Level; OR Mathematics at Standard Level and any two Physics/ Chemistry/ Biology at Higher Level</td>
</tr>
<tr>
<td><strong>Data Analytics <em>NEW</em></strong></td>
<td>At least H2 or equivalent pass in Mathematics and a H2 Level or equivalent pass in Physics, Chemistry or Biology</td>
<td>Mathematics at Higher Level and Physics/ Chemistry/ Biology at Higher Level</td>
</tr>
<tr>
<td><strong>Double Major in:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Biomedical Sciences and BioBusiness</strong></td>
<td>At least H1/SL or equivalent pass in Mathematics and a good H2/HL/A Level or</td>
<td>Mathematics at Standard Level and</td>
</tr>
</tbody>
</table>
Can I still take this course if I did not take Biology in JC?
Yes, you may as you are only required to have the background in at least 1 of the three Sciences. SBS teaches Biology from the basics, so you can still pick up the subject after joining the programme. You may check out the entry requirements for the individual programmes here: 

What are the exemptions available?

<table>
<thead>
<tr>
<th>Qualifications</th>
<th>Exemption</th>
<th>Criteria</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Singapore Cambridge GCE ‘A’ Level</strong></td>
<td>BS1012 Foundations of Chemistry I BS1013 Foundations of Chemistry II</td>
<td>Distinction or Merit</td>
</tr>
<tr>
<td>H3 Chemistry</td>
<td>BS1007 Molecular &amp; Cell Biology I</td>
<td>Distinction or Merit</td>
</tr>
<tr>
<td>H3 Molecular Biology</td>
<td>BS1005 Biochemistry I</td>
<td>Distinction or Merit</td>
</tr>
<tr>
<td>H3 Proteomics</td>
<td>Exemptions will be granted on case-by-case basis</td>
<td>Distinction or Merit</td>
</tr>
<tr>
<td>Other H3 Subjects</td>
<td>Exemptions will be granted on case-by-case basis</td>
<td>Distinction or Merit</td>
</tr>
<tr>
<td><strong>Local Polytechnic Diploma</strong></td>
<td>Exemptions from selected Year 1 courses will be offered to students in the Bachelor of Science in Biological Sciences degree programme on a case-by-case basis.</td>
<td>Exemptions will be based on academic merit and relevance of polytechnic courses completed. Students admitted into Year 1 may be granted exemption from up to 3 Year 1 courses. Students with relevant diplomas may be exempted from BS1100 Molecular and Cell Biology Techniques</td>
</tr>
<tr>
<td>Qualifications</td>
<td>Level 1 as well.</td>
<td></td>
</tr>
<tr>
<td>---------------------------------------</td>
<td>---------------------------------------</td>
<td></td>
</tr>
<tr>
<td><strong>NUS HIGH SCHOOL DIPLOMA Qualifications</strong></td>
<td>BS1012 Foundations of Chemistry I BS1013 Foundations of Chemistry II Through Exemption Test Overall CAP in Chemistry &gt; 4.50</td>
<td></td>
</tr>
<tr>
<td><strong>INTERNATIONAL BACCALAUREATE DIPLOMA Qualifications</strong></td>
<td>BS1012 Foundations of Chemistry I BS1013 Foundations of Chemistry II Through Exemption Test Students with subject grade of 7 or higher may apply to take the exemption test. Exemption is only granted to those who pass the Exemption Test.</td>
<td></td>
</tr>
<tr>
<td><strong>INTERNATIONAL OLYMPIADS</strong></td>
<td>BS1012 Foundations of Chemistry I BS1013 Foundations of Chemistry II Through Exemption Test International Olympiad Medalist (Chemistry)</td>
<td></td>
</tr>
<tr>
<td><strong>SM2</strong></td>
<td>BS1012 Foundations of Chemistry I BS1013 Foundations of Chemistry II Through Exemption Test</td>
<td></td>
</tr>
</tbody>
</table>

*Subject to changes.*
What is the cut off for the programmes this year?
For the latest indicative grade profile for applicants, please refer to
https://www.ntu.edu.sg/admissions/undergraduate/indicative-grade-profile

A LEVEL APPLICANTS

<table>
<thead>
<tr>
<th>Programme Name</th>
<th>Representative Grade Profile 3H2/1H1</th>
<th>10th percentile</th>
<th>90th percentile</th>
</tr>
</thead>
<tbody>
<tr>
<td>Double Major Programmes</td>
<td>AAA/C</td>
<td></td>
<td>AAA/A</td>
</tr>
<tr>
<td>Biological Sciences</td>
<td>AAB/B^</td>
<td></td>
<td>AAA/A</td>
</tr>
</tbody>
</table>

^These provide an indication of the grade profiles for most of the applicants admitted in AY2020-21. There could be other “equivalent” profiles for each programme. For example, a grade profile of ABC/C could be considered to be broadly equivalent to BBB/C, unless there are pre-requisites.

POLYTECHNIC APPLICANTS

<table>
<thead>
<tr>
<th>Programme Name</th>
<th>Representative Grade Profile Polytechnic GPAs</th>
<th>10th percentile</th>
<th>90th percentile</th>
</tr>
</thead>
<tbody>
<tr>
<td>Double Major Programmes</td>
<td>3.56</td>
<td></td>
<td>3.97</td>
</tr>
<tr>
<td>Biological Sciences</td>
<td>3.67</td>
<td></td>
<td>3.98</td>
</tr>
</tbody>
</table>

*Note: This is indicative and the final grade profile for admissions may differ depending on the number and performance of applicants and the places available for the programme. There are no indicative GPA for the Double Major Programmes for Polytechnic Applicants due to the small sample size.

All applicants are encouraged to place SBS as their 1st choice. We review all applications and invite applicants for interview on a case-by-case basis.

What if I wish to apply for the course but my grades did not meet the Indicative Grade Profile?
Now that NTU implements discretionary admission, where things like CCA and leadership are being taken into account, there will be interviews conducted to assess your suitability for the course even if your IGP does not hit the minimum requirement. You can still apply but do note that the choice of options (1st choice, 2nd choice) is important.

Can you share more about your broadened criteria for selection beyond grades and academic performance?

Aptitude-based Admissions (ABA) take into account students' passions, interests and strengths. Applicants with exceptional talents and/or outstanding achievements beyond schools’ co-curricular activities can be considered, subject to a minimum level of academic competence, for admissions under ABA. Academic grades of relevant subjects may be an indication of aptitude as well. Applicants are encouraged to provide details on their achievements, an essay of not more than 300 words under ABA section of the application form and submit at least 1 (maximum 2) appraisal online to support their
applications. Shortlisted candidates may be required to attend an interview and present relevant supporting documents for verification upon request. You may refer to this page for more information at https://tinyurl.com/v8vo8tb.

What are the current tuition fees for this programme?
You can check out the NTU website for more information on tuition fees at https://www.ntu.edu.sg/admissions/undergraduate/financial-matters/tuition-fees

What are the Scholarships available?
The College Scholarship, Nanyang Scholarship and the CN Yang Scholars Programme are more applicable to SBS students. For the new intake, students can also apply for the School Scholarship. You can find out more at https://www.ntu.edu.sg/admissions/undergraduate/scholarships

For more information about scholarships, you may contact the NTU Office of Admissions at:
Tel: (65) 67906766
Email: ug_scholarships@ntu.edu.sg

What are the Tuition grants / Financial Aids available?
There are various grants / aids available for Singaporean students from NTU or external parties (For e.g. for working parents, they can apply for bursaries from their own companies / NTUC / Community Clubs etc.).

You can find out more at https://www.ntu.edu.sg/admissions/undergraduate/financial-matters/tuition-grants
## Frequently Asked Questions (School of Biological Sciences)

### BIOLOGICAL SCIENCES PROGRAMME

**What are the Degree Programmes offered?**

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<thead>
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<th>Bachelor of Science (Honours) in Biological Sciences</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Second Major</strong></td>
<td>Bachelor of Science (Honours) in Biological Sciences with a <strong>Second Major in Biomedical Structural Biology</strong>&lt;br&gt;Bachelor of Science (Honours) in Biological Sciences with a <strong>Second Major in Medicinal Chemistry and Pharmacology</strong>&lt;br&gt;Bachelor of Science (Honours) in Biological Sciences with a <strong>Second Major in Food Science and Technology</strong>&lt;br&gt;Bachelor of Science (Honours) in Biological Sciences with a <strong>Second Major in Data Analytics</strong> (NEW)</td>
</tr>
<tr>
<td><strong>Double Major</strong></td>
<td>Bachelor of Science (Honours) in Biological Sciences and Psychology&lt;br&gt;Bachelor of Science (Honours) in Biomedical Sciences and BioBusiness&lt;br&gt;<em>Note: The Double Major Programme is offered as a single degree programme; each Major carries equal weight in the degree. Shortlisted candidates will be invited for interview before we offer admission. Students who apply for double major programme, may indicate their interest for the NTU-DUKE-NUS Medicine Pathway.</em></td>
</tr>
<tr>
<td><strong>Double Degree</strong></td>
<td>Bachelor of Science (Honours) in Biomedical Sciences and Bachelor of Chinese Medicine&lt;br&gt;<em>Note: 3 years in Nanyang Technological University (NTU) and 2 years in Beijing University of Chinese Medicine (BUCM)</em></td>
</tr>
</tbody>
</table>

### How is the curriculum like for the Bachelor of Science (Honours) in Biological Sciences?

There is a suggested curriculum structure in place for you, but it is generally quite flexible. You have the option and freedom to take on more or reduce number of modules at your own pace. You may also graduate in 3.5 years if you could complete all the AUs required.

### What is Major PE, Core and UE?

You may refer to [https://www.ntu.edu.sg/admissions/matriculation/academic-structure](https://www.ntu.edu.sg/admissions/matriculation/academic-structure) for more information on the NTU academic credit system.

### What are the career prospects for graduates from SBS?

There are a myriad of career options available. We have graduates working in the following sectors:

- Healthcare (E.g. Acupuncturist, Traditional Chinese Medicine Physician, Management Associate)
- Biomedical & Pharmaceutical (Investigator, Manufacturing Biotechnologist, Microbiologist)
- Banking, Finance & Legal (Fixed Income Trader, Vice President (Institutional Banking), Patent Executive)
- Education (Teacher, Assistant Professor)
- Research (Ph.D., Embryologist, Research Officer)
Frequently Asked Questions (School of Biological Sciences)

- Entrepreneur
- Public Sector (We have graduates working at National Parks Board, Singapore Economic Development Board and Agri-Food & Veterinary Authority of Singapore)
- Postgraduate Studies (Ph.D. students in overseas universities such as Oxford University, Medical and Research students at the Duke-NUS Medical School)
- Others (Product Managers, HR etc.)

*Note: The Bachelor of Science (Honours) in Biological Sciences is a broad-based degree recognized internationally. During the course of study, if a student feels that this is not their area of interest, they can choose to take on other routes for their further studies (such as Masters / Ph.D.) as well as take on specialised courses to venture into other career paths.

**Is it possible to pursue Medicine after completing a Bachelor’s degree in Biological Sciences?**

The NTU-Duke-NUS Medicine Pathway provides successful applicants from either of our double major programmes a conditional admission to the Doctor of Medicine programme at the Duke-NUS Medical School. Please visit our website to find out more at [https://www.ntu.edu.sg/sbs/admissions/programmes/undergraduate/ntu-duke-nus-medicine-pathway](https://www.ntu.edu.sg/sbs/admissions/programmes/undergraduate/ntu-duke-nus-medicine-pathway)

**Are my career options limited without a Masters?**

No. As we offer a 4 years direct honours programme, this is equivalent to a Masters in certain countries. If you wish to apply for Ph.D. without an honours degree, you will be required to take up a Masters first.

**Are internships compulsory? how does the school help the student to get a placement?**

Yes. Internships are integrated into the students’ curriculum. Students are allowed to plan when they want to take up their internship after they complete year 2. The school will open a portal with different selections, alternatively students can outsource for a placement and submit to the school for approval.

**Are there any study groups available for the students?**

No, SBS does not have study groups. We do have a Clade system where students from different programmes are grouped into four Clades upon enrolment as a freshman. Each Clade has a “parent” who is a member of the senior SBS teaching faculty, and also Clade leaders who are students. The Clade system aims to bring the students and faculty closer together and students can approach their Clade parents and Clade leaders if they need help.

SBS has also appointed “super mentors” who can mentor students in distress. These mentors meet with students to provide them tips on how to improve their academics, study strategies and advice on time management.
Are there any pre-courses available for returning NSmen student before school starts?
Yes. There are short term modules available for students. You will receive an email prior to the school start.

Can a student apply for transfer (after enrolment) if they are not accepted to the 1st choice of their course?
Yes, on a case-by-case basis.

What is the difference between a Second Major and Double Major?
The main difference is the number of AUs that you have to clear.

**Double Major**
Both Majors have equal weightage and equal number of AUs to be cleared. Students will graduate with Bachelor of Science (Honours) in Biological Sciences and Psychology or Bachelor of Science (Honours) in Biomedical Sciences and BioBusiness.

**Second Major**
The Second Major only takes up approximately 30% of the total AUs and students will graduate with Bachelor of Science (Honours) in Biological Sciences. The Second Major title will be reflected in the students’ transcript.

Can you choose a second major midway through the programme?
No. Your choice of programme or second major is fixed at the point of enrolment. However, for the second major in Food Science and Technology (FST) programme, it is managed by the NTU FST office and is the only exception. They may invite year 1 students to apply after they have completed two semesters.

Although you are unable to choose a second major midway through the course, you have the option to drop your second major if you are unable to cope with the study load.

What is the difference between Double Major Programme and Double Degree Programme?

**Double Major**
You earn only one bachelor's degree with specializations in two fields.

**Double Degree**
You earn two separate degrees upon graduation.
The Bachelor of Science (Honours) in Biomedical Sciences and Bachelor of Chinese Medicine is the only double degree programme in SBS.
The Bachelor of Science (Honours) in Biomedical Sciences degree will be conferred by Nanyang Technological University while the Bachelor of Chinese Medicine will be conferred by the Beijing University of Chinese Medicine.
Frequently Asked Questions (School of Biological Sciences)

Do I have to maintain a certain CGPA throughout my studies if I have a Second Major?
Yes. Students are required to maintain a CGPA of at least 4.0 throughout their course of study. Should a student fail to maintain the required CGPA, the school would recommend him/her the option to drop the 2nd Major and join the standard BS (Hons) programme.

What is the typical workload of a Second Major programme?
Please refer to: https://www.ntu.edu.sg/sbs/admissions/programmes/undergraduate/undergraduate-programmes/ for more details on the specific Second Major programme you’d like to find out more about.

What is the research experience about (UAEB, URECA)?
UAEB (Undergraduate Advanced Experimental Biology) is a one week intense lab module that allows you to clear 3AUs while learning very specific lab skills. There are many different skills available for you to learn from.

URECA (Undergraduate Research Experience on Campus) is an 11-month (August to June) programme which provides you with an opportunity to pursue appropriate independent research under the supervision of a professor of your choice in your chosen field of research.

Do all students get to do UAEB or is there a selection process?
Students are allowed to take up to two UAEB workshops. Students are required to fulfil the pre-requisites for the respective UAEB workshops before they can apply for them. Priority will be given to senior students.
SECOND MAJOR PROGRAMMES

May I ask if the second Major in Food Science and Technology programme allows me to pursue further studies to become a clinical dietician?

The second major Food Science and Technology Programme is a well-rounded programme that gives you knowledge on various areas of food science (e.g. safety side from Food Microbiology; technological side from Food Process Engineering). If you are enrolled in the second Major in Food Science and Technology Programme, you would be able to take a Nutrition elective if you are interested in nutrition.

With regards to further studies, yes, you can further your studies overseas if you want to become a professional dietician or nutritionist. However, our 2nd Major programme does not allow one to become a dietician or nutritionist in future. There are many other job roles that you can take up such as becoming a Food Microbiologist, Food Chemist, Food Safety Specialist, Food Process Engineer, Product Development (R&D) Staff.

If you have any queries regarding Food Science and Technology major (FST), you may email the FST office at fst@ntu.edu.sg

What is different between Biological Sciences with 2nd major in Medicinal Chemistry & Pharmacology (BSMCP) and Biomedical Structural Biology (BSSB)?

BSSB
Using structural information of disease proteins in virus/bacteria obtained by various imaging methods, such as X-ray crystallography, NMR, cryoEM etc., to identify/design drug targets.

BSMCP
Using chemical synthesis/organic chemistry to synthesise/modify chemical/compound to develop new drugs.

*NEW* SECOND MAJOR IN DATA ANALYTICS PROGRAMME

How does data analytics complement my Biological Sciences Degree?

Science students can take advantage of their technical knowledge and training in their major to integrate applications in data analytics. This will help expand their career options after graduation and ramp up their employability.

In which area of study must I do my FYP in?

FYP is normally conducted in the area of your primary major.

What is Data Analytics and what does the Second Major entails?

The Second Major in Data Analytics incorporates relevant courses across different schools to provide students with the foundation and practical tools for data analytics. The curriculum has been curated to ensure that students receive critical knowledge and skills in the following areas:
(a) **Foundation in Mathematics, Statistics and Algorithms:** The core courses in this group are focused on probability and statistics, linear algebra and algorithms/programming. It is essential that every data analyst or data scientist understands the theoretical underpinnings in order to be able to build reliable models with real-world applications.

(b) **Essentials in Data Analytics:** The core courses in this group are focused on database, data mining and data visualization/management. These courses aim to prepare students for key responsibilities of a data analyst which generally include designing and maintaining data systems and databases, mining data from primary and secondary sources, using statistical tools to interpret data for diagnostic and predictions, and visualization tools for reporting and communications.

(c) **Advanced Electives in Data Analytics:** With a variety of elective courses across different schools in COS and COE, students are able to gain in-depth exposure to artificial intelligence, neural network, machine learning, natural language processing and higher level courses in statistics, computations and algorithms.

**Can I drop the Second Major after I got into the programme?**
Yes, you may. Please consult your programme coordinator and SBS Undergraduate Office to discuss this matter.

**Do I have to choose the Second Major when I apply to NTU? Or can I opt to change to the second after I am admitted?**
You need to choose the Second Major when applying to NTU. Currently, the Second Major is not open to students after admission.

**What are the additional courses I will have to take?**
Please refer to the programme website for more details on the courses to complete:
DOUBLE MAJOR PROGRAMMES

Double Major in Biological Sciences and Psychology
What are the study paths and jobs I can take after graduating from this double major programme?
Previous BSPY students followed diverse paths in education, clinical psychology and Ph.D./research. It really depends on what you want to pursue. For example, to be a psychologist, you will need to take and complete a specialized certificate course after your degree. You can plan/discuss with the programme coordinator in your 2nd year about this and they can provide some guidance on this.

Since this is a double major, can I pursue further studies in Psychology to become a Psychologist?
This degree programme introduces you to a diverse career path. As Psychology and Biology are related, it will likely be easier for you to become a Psychologist. However, do take note that to be a Psychologist, you will need to obtain a specialized certificate. Our double major programme aids you in fulfilling the entrance requirements for such specialization courses.

Would taking this double major put me at any disadvantage from a person who only did Psychology?
No, in fact you will have more career options, both in psychology related and life science sectors. Psychologist in major organizations may be required to conduct certain research portfolios and if the psychologist has knowledge on neurobiology and science background, this is to his/her advantage.

Also, would there be any difference in study paths and career prospects between the double major stated above as compared to Psychology with a second major in Biological Science?
For our double major programme, there is an equal weightage of training in Biomedical Sciences and Psychology. Students will graduate with a Bachelor of Science degree (B.Sc) with the title B.Sc (Hons) in Biological Sciences and Psychology.

For the Psychology with a second major in Biological Sciences programme, the main focus will be on Psychology and students will read a few additional modules on Biological Sciences. Students will graduate with a Bachelor of Arts in Psychology. The second major will only be mentioned in their transcripts.

Double Major in Biomedical Sciences and BioBusiness
What is BioBusiness?
BioBusiness refers specifically to the business and manufacturing operations management related to biomedical technology, healthcare and bio-entrepreneurship, and requires an acumen for regulatory affairs of such industry which general business programmes do not cater to.

The Bachelor of Science (Honours) in Biomedical Sciences and BioBusiness offered by NTU SBS is a programme that combines biomedical sciences and biotechnology with BioBusiness. Graduates will be cross-trained in these two disciplines concurrently. This will make them highly sought after as they will be able to run the business of pharmaceutical and biotechnology companies more efficiently, as well as support the growing medical technology industry.
NTU-DUKE-NUS MEDICINE PATHWAY

What is the entry requirement / application process for this track?

How many seats/slots are available for this track this year?
10.

I have accepted the offer by NTU SBS for the BSPY / BSB programme. Does that mean that I am automatically accepted into the Doctor of Medicine programme at the Duke-NUS Medical School?
No. It is not guaranteed. Applicants who have been offered and accepted the BSPY or BSB programme by NTU SBS will be invited to indicate your interest in this pathway. Duke-NUS Medical School will shortlist, conduct interviews, and eventually offer successful applicants conditional admission to this pathway.

Conditionally admitted students are required to fulfil the curriculum requirements for BSB or BSPY, and perform well throughout their terms. Following each semester at SBS, students are required to submit, for review by the Vice Dean of Education (or designate) of Duke-NUS, (a) an academic transcript, (b) a list of courses scheduled for the coming semester, and (c) a brief update on activities and involvement for the previous semester. The Vice Dean of Education (or designate) will provide a progress report to the AC in the students’ final year.

*Note:
Conditionally admitted students offered the NTU-Duke-NUS Medicine Pathway are still required to take the Medical College Admissions Test (MCAT).

Decision for the final admission will be based on the following criteria:

- Cumulative Average Point (CAP) – as an indication of academic performance.
- Complete the MCAT exam by September of the year prior to entry.
- Complete meaningful clinical/medical and service experiences throughout their undergraduate years at NTU.
- Expected to conduct themselves professionally. If concerns should arise at any time regarding a student’s academic performance or personal/professional development, the student may be reviewed by the Duke-NUS Admissions Committee resulting in action up to and including withdrawal from the offer of conditional admissions.
- Submit the final Duke-NUS MD application and transcript to the Duke-NUS Admissions Department by the specified deadlines.
Will there be instances where I will lose this conditional admission throughout the course of my 4 years of study in NTU?

A student will lose conditional admission to the Duke-NUS MD programme if any of the following occur during the completion of their BSB/BSPY programme:

(i) Withdrawal from NTU
(ii) Failure to achieve the required grade on completion of the degree
(iii) Failure to submit the Duke-NUS MD application and all required application materials to the Duke-NUS Admissions Department by the specified deadlines.
(iv) Violate a standard of academic or ethical conduct policy or any other applicable policy of NTU where the potential outcome could result in a failing assignment or exam grade, a failing course grade, or disciplinary action.

What is the interview process like – is it like Yong Loo Lin School of Medicine’s Multi-Mini Interviews?

It will not be Multi-Mini Interviews. There will be two rounds of interviews to evaluate an applicant’s academic preparation, related experience, personal qualities and communication skills. The interviews will be conducted by members of the MD Admissions Committee.

Do shortlisted candidates have to write an essay & assemble 2 referee reports similar to Yong Loo Lin School of Medicine’s interview process?

Yes, the completed Duke-NUS application will consist of an online application, personal statement and 2 letters of recommendation.

When are the interviews held?

Interviews are held in July. Those who have been offered and accepted in either the BSPY/BSB programme as well as indicated an interest in the NTU-Duke-NUS Medicine Pathway will be considered for an interview.

Who are the interviewers?

Our MD Admissions Committee members will be interviewing the students. The MD Admissions Committee is the institutional body charged with making recommendations pertaining to admission of applicants into the Duke-NUS MD programme, aligned with the educational mission of the School. Members of the Admissions Committee are selected, with input from leadership stakeholders, from among various academic leaders within SingHealth, and clinical, research, and/or education faculty at Duke-NUS.

How long is each interview?

Each interview will last for 30 minutes

How many rounds of interview will there be?

2 rounds of interviews
Are there any scholarships available for this NTU-Duke-NUS Medicine Pathway?
At the moment, there are no Duke-NUS scholarships available for the entire conditional admission pathway (8 years). However, there are scholarships for the 4-year MD component. To assist students in financing their MD tuition and other fees, Duke-NUS offers a variety of scholarships and bursaries: [https://tinyurl.com/spvxyrvw](https://tinyurl.com/spvxyrvw)

Can I choose not to continue the MD Programme after I graduate from NTU? Will it affect my academic standing NTU?
Admitted students may decide against continuing with the Pathway for a variety of reasons. The discontinuation will have no consequence on the students’ standing in NTU and within the BSB/BSPY Programmes in SBS.
DOUBLE DEGREE BIOMEDICAL SCIENCES AND CHINESE MEDICINE PROGRAMME

Admissions
Can polytechnic students enter directly into the second year of the double degree in Biomedical Sciences and Chinese Medicine programme?
As the Chinese Medicine courses are integrated into the first 3 years of the double degree programme, it is not possible for polytechnic graduates (or GCE ‘A’ Level graduates) to enter directly into the second year of this programme.

Are international students eligible for admission into the double degree in Biomedical Sciences and Chinese Medicine programme?
Yes. Applicants must satisfy the admission requirements. Please refer to the NTU Office of Admissions and Financial Aid (OAFA) website for information pertaining to international applicants.

Citizens (Passport holders including Singapore Permanent Residents) of Hong Kong, Macau, China and Taiwan are strictly not allowed to apply.

Are interviews conducted as part of the admission process for the double degree in Biomedical Sciences and Chinese Medicine programme?
All shortlisted applicants in 2022 will be subjected to a short interview.

If I have no background in biology, can I still take up the course?
Yes, so long as you have background in one Science, either in Physics or Chemistry.

Can someone with complete or partial colour-blindness or Hepatitis B carrier be admitted to the double degree in Biomedical Sciences and Chinese Medicine programme?
No. Some of the courses require students to identify colour shades as well as recognise them as critical diagnostic factors. Hospital and clinical internships may require students to do invasive techniques like acupuncture. Hence, Hepatitis B carrier and colour-blind students will not be admitted.
You can find out more at https://tinyurl.com/vxhtdd7.

Chinese Language
Are any courses taught in Chinese in the double degree in Biomedical Sciences and Chinese Medicine programme?
All Chinese Medicine based courses are taught in Chinese. This includes courses taught in both Nanyang Technological University and Beijing University of Chinese Medicine. All biomedical sciences modules are taught in English.
Does my Chinese have to be very good to take up this course?
Minimally, you are required to have a good GCE ‘O’ Level pass in Chinese Language. You are also required to be able to write and converse in Chinese as all Chinese Medicine based courses are taught in Chinese.

I can speak and write Chinese but I am afraid that I might not be able to cope.
You may get a culture shock at the beginning, having to converse and write in Chinese. However, this is an adaptation process which we believe you will slowly get used to. Many of the students have been through this stage, and they have adapted quite well to it. Many students also found that their proficiency in Mandarin has improved significantly.

Finances
What is the current tuition fees for the double degree in Biomedical Sciences and Chinese Medicine programme?

**First 3 years of study (in Nanyang Technological University (NTU)):**
Tuition fees are paid to NTU. Every year, fees are reviewed and subject to revision. Although we are categorized as a double degree programme, our tuition fees are similar to many other single degree programmes.

**Final 2 years of study (in Beijing University of Chinese Medicine (BUCM)):**
Tuition fees are paid to BUCM. The current tuition fee in China is 35,000 RMB (approx. SGD 7,000) per year.
Refer to [here](#) for more information.

What expenses do I need to pay for while studying at the Beijing University of Chinese Medicine?
Apart from tuition fees, students need to pay for their air travel, accommodation, food, transportation costs and various other personal living expenses. The current tuition fee in China costs 35,000 RMB (approx. < SGD 7000) per year.
Total expenses (Including school fees + accommodation + living expenses + airfare + others) amount to approximately SGD30,000 – SGD35,000.

Is there a study loan available for the last 2 years of the programme?
There is an Overseas Study Programme (OSP) Loan [海外留学助学贷款](#) (Up to SGD 42,000 for the 2 years of study)

For more information on scholarships and financial support offered by NTU, please refer to the NTU Office of Admissions’ website at [https://www.ntu.edu.sg/admissions/undergraduate/scholarships](https://www.ntu.edu.sg/admissions/undergraduate/scholarships)
About the Programme
How long has the double degree in Biomedical Sciences and Chinese Medicine programme been established?
The inaugural intake was in 2005 and they graduated in 2010. The new intake will be the 18th batch as of August 2022.

Will I receive my first degree after 3 years and the second degree after 5 years in the double degree in Biomedical Sciences and Chinese Medicine programme?
No. Both degrees will be awarded after completion of the 5 years of study.

Is there a part-time option for the double degree in Biomedical Sciences and Chinese Medicine programme?
No. The double degree programme is only offered as a 5 year full-time programme.

How many students are accepted per year into the double degree in Biomedical Sciences and Chinese Medicine programme?
30 to 40. A smaller intake allows for more interaction between the teachers and students, thus increasing the effectiveness of learning.

Can I practice as a qualified Traditional Chinese Medicine practitioner (TCM) in Singapore upon graduation from the programme?
Completion of the double degree programme does not automatically register a graduate as a certified TCM practitioner. To practice in Singapore, graduates of the double degree programme are required to satisfy the requirements set by the Singapore TCM Practitioners Board of the Ministry of Health. This includes sitting for and passing the national licensing examination conducted by the Singapore TCM Practitioners Board of the Ministry of Health.

How are the classes taught by BUCM professors being run during COVID?
In the event that travel restrictions still continue for the next several years, classes taught by BUCM professors will be run online. Internships in Beijing will be replaced by internships in NTU Chinese Medicine Clinic. However, we will try as much as possible to allow our students to have in-person classes with BUCM professors during the first 3 years of the programme, and to travel to Beijing for the last 2 years of the programme as long as the circumstances allow.

ANY OTHER QUESTIONS?
For more information, you can contact the NTU Admissions Office
https://www.ntu.edu.sg/admissions/undergraduate/admission-guide

Or

Email your queries directly to us: sbs-undergrad@ntu.edu.sg