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## JOINT DEGREE PROGRAMME

### NUS BACHELOR OF SCIENCE (HONOURS) IN LIFE SCIENCES WITH UNIVERSITY OF DUNDEE

#### 1. Overview of Programme

This Joint Degree Programme (JDP) National University of Singapore (NUS) Bachelor of Science (Honours) in Life Sciences [BSc (Hons)] with University of Dundee (UoD) is designed to be completed in four years, and to be taught in NUS and UoD. The programme combines the strengths of both universities' undergraduate curricula, integrates overseas experience into the undergraduate studies, and awards a jointly validated BSc (Hons) degree qualification.

NUS students in this JDP will complete the degree requirements as per that of NUS BSc (Hons) degree in Life Sciences. Participants will spend the first two-and-a-half years in NUS before joining UoD for three regular semesters (i.e., the 6<sup>th</sup> to 8<sup>th</sup> semesters inclusive of their course of undergraduate studies).

Life Sciences at UoD is of the highest rated for Biological Sciences in the UK. Its School of Life Sciences offers twelve major BSc Honours degree programmes in Biological and Biomedical Sciences, all with accreditation from the Royal Society of Biology.

[University of Dundee](#) | [Faculty of Life Sciences](#)

#### 2. Three Tracks to Choose From

The curriculum of the study abroad segment at UoD is designed to focus on a selected area in Life Sciences. By completing the requirements of each track, the corresponding Life Sciences Major specialisation will be conferred.

- Drug Design and Discovery – Biomedical Science Specialisation (BMS)
- Developmental Biology – Biomedical Science Specialisation (BMS)
- Plant Science – Ecology, Evolution and Biodiversity Specialisation (EEB)

NUS students are to conduct research projects in UoD focusing on their chosen tracks.

#### 3. JDP Requirements

Please refer to the following set of programme requirements and the recommended study plans for this JDP in Annex A.

- For CHS Cohorts AY2023/24 onwards – Annex A (pages 4 to 6)

#### 4. Tuition Fee

Semester	Tuition Fee Payable To	Tuition Fee Rate
Semesters 1 to 5 (in NUS)	Tuition fee is payable to NUS for the BSc (Hons) degree.	NUS annual tuition fees are available <a href="#">here</a> .
Semesters 6 to 8 (in UoD)	Tuition fee is payable to NUS for the BSc (Hons) degree, as per student on exchange. Miscellaneous fee or equivalent applicable and payable to UoD.	NUS annual tuition fees are available <a href="#">here</a> .

#### 5. Admissions

**Eligible undergraduate candidates will need to gain entry to NUS CHS and declare reading Life Sciences Major as the primary discipline.**

Students reading Life Sciences as the primary Major may apply for admission to this JDP the latter half of Year 1 Semester 2. Successful candidates will join the JDP from Year 2 onwards. All applicants will go through a selection and those shortlisted will be required to attend an interview to assess their academic competencies, aptitude, and suitability for the programme.

#### 6. Continuation Requirements

NUS students reading this JDP must maintain a GPA of 4.00 or above (out of 5.00) for the BSc (Hons) degree. A student whose GPA falls below 4.00 for any semester will be reviewed for continuation with the programme. The student may exit the JDP and complete the default BSc (Hons) degree in NUS. NUS students in this programme may also choose to withdraw and continue with the default BSc (Hons) degree.

#### 7. Application for Cohort AY2024/2025 Intake

Interested Life Sciences Major freshman of Cohort AY2025/2026 may apply during the latter half of Semester 2 when the application call is issued via NUS email. Applicants should expect a GPA of at least 4.00 at the end of second semester (i.e., Year 1), and shortlisted candidates will be required to attend an interview.

Application window	<b>Open till 20 April 2026</b>
Online application portal	The portal will be accessible <a href="#">here</a> during the application window.
Application criteria	<ul style="list-style-type: none"> <li>- GPA of at least 4.0.</li> <li>- Pass in (or reading) at least two of these courses – LSM1111, LSM210x, LSM22xx.</li> <li>- Grades of B+ or above for all LSM courses read by the end of Year 1.</li> </ul>
Documents to prepare for uploading as part of application	In a single PDF document labelled with applicant's name: <ul style="list-style-type: none"> <li>- One-page personal statement of interest in this programme and highlights of relevant credentials.</li> <li>- Latest CV/Résumé.</li> </ul>
Interview	Shortlisted applicants will be informed the details of interview, and it will tentatively take place in April/May 2026 (may be subjected to changes).
Application outcome	All applicants will be informed the outcome after Semester 2 AY2025/26 results release.

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## 8. Enquiry

Please contact Life Sciences Enquiry [dbsbox2@nus.edu.sg](mailto:dbsbox2@nus.edu.sg).

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*Please see the list of courses in University of Dundee and corresponding NUS course codes to be mapped to for credit-and-grade transfer, on Page 7 (subjected to changes).*

## Annex A (Subjected to changes)

JDP roadmaps for student admitting first at NUS as Life Sciences Major, for **CHS Cohort AY2021/22 to AY2022/23**.

### (A) Area of Focus – Drug Design and Discovery

Requirements	Year 1	Year 2	Year 3	Year 4
CHS Common Curriculum	<b>Semesters 1 and 2</b> <input type="checkbox"/> Asian Studies <input type="checkbox"/> Humanities <input type="checkbox"/> Social Sciences <input type="checkbox"/> Scientific Inquiry I <input type="checkbox"/> Data Literacy <input type="checkbox"/> Design Thinking	<b>Semesters 1 and 2</b> <input type="checkbox"/> Artificial Intelligence <input type="checkbox"/> Communities and Engagement <input type="checkbox"/> Writing <input type="checkbox"/> Scientific Inquiry II <input type="checkbox"/> Digital Literacy <input type="checkbox"/> 1x Interdisciplinary Course	<b>Semester 1</b> <input type="checkbox"/> 1x Interdisciplinary Course	
Major in Life Sciences	<b>Semesters 1 and 2</b> <input type="checkbox"/> LSM1111 Biological Challenges and Opportunities for Humankind <input type="checkbox"/> LSM2105 Molecular Genetics <input type="checkbox"/> LSM2107 Evolutionary Biology	<b>Semesters 1 and 2</b> <input type="checkbox"/> LSM2106 Fundamental Biochemistry <input type="checkbox"/> LSM2191A/B Laboratory Techniques in Life Sciences <input type="checkbox"/> Pass 1x LSM22xx/32xx (excluding LSM2289# and LSM3289#)	<b>Semester 1</b> <input type="checkbox"/> LSM3211 Fundamental Pharmacology <input type="checkbox"/> Pass 2x LSM22xx/32xx/42xx (excluding LSM2289#, LSM3289# and LSM4288#), recommended: - LSM3210A/B Metabolism and Regulation - LSM3220 Genes, Genomes and Biomedical Implications	
Unrestricted Electives	<b>Semesters 1 and 2</b> <input type="checkbox"/> Unrestricted Elective 1 – CM1102 Chemistry – The Central Science	<b>Semesters 1 and 2</b> <input type="checkbox"/> Unrestricted Elective 2 – CM2122 Organic Chemistry in Life and Medicine <input type="checkbox"/> Unrestricted Elective 3 – ZB2101 Introductory Bioinformatics	<b>Semesters 1</b>	
UoD Courses			<b>Semester 2</b> <input type="checkbox"/> UoD Course – BS32041 Research Skills 3B (20 credits) <input type="checkbox"/> UoD Course – BS32042 Modern Drug Discovery Fundamentals (20 credits) <input type="checkbox"/> UoD Course – BS32043 Synthesis for Drug Discovery (20 credits)  <i>60 credits = 20 Units</i>	<b>Semester 1 and 2</b> <input type="checkbox"/> UoD Course – <b>BS41010 Capstone Project: Biological and Biomedical Sciences (60 credits)</b> (Mapped to 8 units LSM4288M + 16 units LSM4931 = 24 units) <input type="checkbox"/> UoD Course – <b>BS42032 Advanced Modern Drug Discovery (20 credits)</b> <input type="checkbox"/> UoD Course – BS42036 Chemical Biology (20 credits) <input type="checkbox"/> UoD Course – 1 out of 3 courses (20 credits): - BS32049 Immunology or - BS42029 Machine Learning in Biology or - BS42035 Parasitology  120 credits = 40 Units

#### Notes:

In NUS, 36 Units for Major, 52 Units of CHS Common Curriculum and 12 Units of Unrestricted Electives are to be completed (100 Units).

In UoD, 30 Units for Major (courses in bold); and 30 Units of Unrestricted Electives are read (not bold).

UoD course BS41010 Capstone Project: Biological and Biomedical Sciences (60 credits) to be mapped to NUS 8 Units of LSM4288M + 16 Units of LSM4931 (in total 24 Units).

## (B) Area of Focus – Developmental Biology

Requirements	Year 1	Year 2	Year 3	Year 4
CHS Common Curriculum	<u>Semesters 1 and 2</u> <input type="checkbox"/> Asian Studies <input type="checkbox"/> Humanities <input type="checkbox"/> Social Sciences <input type="checkbox"/> Scientific Inquiry I <input type="checkbox"/> Data Literacy <input type="checkbox"/> Design Thinking	<u>Semesters 1 and 2</u> <input type="checkbox"/> Artificial Intelligence <input type="checkbox"/> Communities and Engagement <input type="checkbox"/> Writing <input type="checkbox"/> Scientific Inquiry II <input type="checkbox"/> Digital Literacy <input type="checkbox"/> 1x Interdisciplinary Course	<u>Semester 1</u> <input type="checkbox"/> 1x Interdisciplinary Course	
Major in Life Sciences	<u>Semesters 1 and 2</u> <input type="checkbox"/> LSM1111 Biological Challenges and Opportunities for Humankind <input type="checkbox"/> LSM2105 Molecular Genetics <input type="checkbox"/> LSM2107 Evolutionary Biology	<u>Semesters 1 and 2</u> <input type="checkbox"/> LSM2106 Fundamental Biochemistry <input type="checkbox"/> LSM2191A/B Laboratory Techniques in Life Sciences <input type="checkbox"/> LSM2233 Cell Biology	<u>Semester 1</u> <input type="checkbox"/> LSM3233 Developmental Biology <input type="checkbox"/> Pass 2x LSM22xx/32xx/42xx (excluding LSM2289#, LSM3289# and LSM4288#), recommended: - LSM3234 Biological Imaging of Growth and Form - LSM4232 Advanced Cell Biology	
Unrestricted Electives	<u>Semesters 1 and 2</u> <input type="checkbox"/> Unrestricted Elective 1	<u>Semesters 1 and 2</u> <input type="checkbox"/> Unrestricted Elective 2	<u>Semesters 1</u> <input type="checkbox"/> Unrestricted Elective 3	
UoD Courses			<u>Semester 2</u> <input type="checkbox"/> UoD Course – BS32041 Research Skills 3B (20 credits) <input type="checkbox"/> UoD Course – BS32037 Cell Signalling (20 credits) <input type="checkbox"/> UoD Course – BS32045 Developmental Biology (20 credits)  <i>60 credits = 20 Units</i>	<u>Semester 1 and 2</u> <input type="checkbox"/> <b>UoD Course – BS41010 Capstone Project: Biological and Biomedical Sciences (60 credits)</b> <b>(Mapped to 8 units LSM4288M + 16 units LSM4931 = 24 units)</b> <input type="checkbox"/> <b>UoD Course – BS42031 Stem Cell Biology (20 credits)</b> <input type="checkbox"/> UoD Course – BS42034 Advanced Cell Signalling in Health and Disease (20 credits) <input type="checkbox"/> UoD Course – UoD Course – 1 out of 5 courses (20 credits): - BS32038 Bioinformatics Methods or - BS32040 Crop science and biotechnology for food security or - BS32044 Biobusiness or - BS42029 Machine Learning in Biology or - BS42035 Parasitology  120 credits = 40 Units

### Notes:

In NUS, 36 Units for Major, 52 Units of CHS Common Curriculum and 12 Units of Unrestricted Electives are to be completed (100 Units).

In UoD, 30 Units for Major (courses in bold); and 30 Units of Unrestricted Electives are read (not bold).

UoD course BS41010 Capstone Project: Biological and Biomedical Sciences (60 credits) to be mapped to NUS 8 Units of LSM4288M + 16 Units of LSM4931 (in total 24 Units).

### (C) Area of Focus – Plant Science

Requirements	Year 1	Year 2	Year 3	Year 4
CHS Common Curriculum	<b>Semesters 1 and 2</b> <input type="checkbox"/> Asian Studies <input type="checkbox"/> Humanities <input type="checkbox"/> Social Sciences <input type="checkbox"/> Scientific Inquiry I <input type="checkbox"/> Data Literacy <input type="checkbox"/> Design Thinking	<b>Semesters 1 and 2</b> <input type="checkbox"/> Artificial Intelligence <input type="checkbox"/> Communities and Engagement <input type="checkbox"/> Writing <input type="checkbox"/> Scientific Inquiry II <input type="checkbox"/> Digital Literacy <input type="checkbox"/> 1x Interdisciplinary Course	<b>Semester 1</b> <input type="checkbox"/> 1x Interdisciplinary Course	
Major in Life Sciences	<b>Semesters 1 and 2</b> <input type="checkbox"/> LSM1111 Biological Challenges and Opportunities for Humankind <input type="checkbox"/> LSM2105 Molecular Genetics <input type="checkbox"/> LSM2107 Evolutionary Biology	<b>Semesters 1 and 2</b> <input type="checkbox"/> LSM2106 Fundamental Biochemistry <input type="checkbox"/> LSM2191A/B Laboratory Techniques in Life Sciences <input type="checkbox"/> LSM2233 Cell Biology	<b>Semester 1</b> <input type="checkbox"/> LSM3233 Developmental Biology <input type="checkbox"/> Pass 2x LSM22xx/32xx/42xx (excluding LSM2289#, LSM3289# and LSM4288#), recommended: - LSM2254 Fundamentals of Plant Biology - LSM4251 Plant Growth and Development	
Unrestricted Electives	<b>Semesters 1 and 2</b> <input type="checkbox"/> Unrestricted Elective 1	<b>Semesters 1 and 2</b> <input type="checkbox"/> Unrestricted Elective 2	<b>Semesters 1</b> <input type="checkbox"/> Unrestricted Elective 3	
UoD Courses			<b>Semester 2</b> <input type="checkbox"/> UoD Course – BS32041 Research Skills 3B (20 credits) <input type="checkbox"/> UoD Course – BS32040 Crop science and biotechnology for food security (20 credits) <input type="checkbox"/> UoD Course – 1 out of 3 courses (20 credits) - BS32036 Molecular Microbiology - BS32037 Cell Signalling - BS32038 Bioinformatics Methods  <i>60 credits = 20 Units</i>	<b>Semester 1 and 2</b> <input type="checkbox"/> <b>UoD Course – BS41010 Capstone Project: Biological and Biomedical Sciences (60 credits)</b> <b>(Mapped to 8 units LSM4288M + 16 units LSM4931 = 24 units)</b> <input type="checkbox"/> <b>UoD Course – BS42037 Plant-Environment Interactions and Climate Resilience (20 credits)</b> <input type="checkbox"/> UoD Course – 1 out of 3 courses (20 credits) - BS32036 Molecular Microbiology or - BS32037 Cell Signalling or - BS32038 Bioinformatics Methods <input type="checkbox"/> UoD Course – 1 out of 3 courses (20 credits) - BS42029 Machine Learning in Biology or - BS42033 Advanced Molecular Microbiology or - BS42034 Advanced Cell Signalling in Health and Disease  120 credits = 40 Units

**Notes:**

In NUS, 36 Units for Major, 52 Units of CHS Common Curriculum and 12 Units of Unrestricted Electives are to be completed (100 Units).

In UoD, 30 Units for Major (courses in bold); and 30 Units of Unrestricted Electives are read (not bold).

UoD course BS41010 Capstone Project: Biological and Biomedical Sciences (60 credits) to be mapped to NUS 8 Units of LSM4288M + 16 Units of LSM4931 (in total 24 Units).

**Annex B (For cohorts AY23/24 onwards) (Subjected to changes)**
**UoD courses and corresponding NUS course codes and titles (no. of Units)**

UoD Course		NUS Course	
Code	Title	Code	Title
BS32036	Molecular Microbiology (20 credits)	LSM4921	Molecular Microbiology (6 units)
BS32037	Cell Signalling (20 credits)	LSM4922	Cell Signalling (6 units)
BS32038	Bioinformatics Methods (20 credits)	LSM4923	Bioinformatics Methods (6 units)
BS32040	Crop science and biotechnology for food security (20 credits)	LSM4924	Crop science and biotechnology for food security (6 units)
BS32041	Research Skills 3B (20 credits)	LSM4925	Research Skills 3B (6 units)
BS32042	Modern Drug Discovery Fundamentals (20 credits)	LSM4926	Modern Drug Discovery Fundamentals (6 units)
BS32043	Synthesis for Drug Discovery (20 credits)	LSM4927	Synthesis for Drug Discovery (6 units)
BS32044	Biobusiness (20 credits)	LSM4928	Biobusiness (6 units)
BS32045	Developmental Biology (20 credits)	LSM4929	Developmental Biology (6 units)
BS32049	Immunology (20 credits)	LSM4930	Immunology (6 units)
BS41010	Capstone Research Project: Biological Science: Biological and Biomedical Sciences (60 credits)	LSM4288E/M	Research Project in Life Sciences (8 units)
		LSM4931	Capstone Research Project: Biological Science: Biological and Biomedical Sciences (16 Units)
BS42029	Machine Learning in Biology (20 credits)	LSM4932	Machine Learning in Biology (6 units)
BS42031	Stem Cell Biology (20 credits)	LSM4933	Stem Cell Biology (6 units)
BS42032	Advanced Modern Drug Discovery (20 credits)	LSM4934	Advanced Modern Drug Discovery (6 units)
BS42033	Advanced Molecular Microbiology (20 credits)	LSM4935	Advanced Molecular Microbiology (6 units)
BS42034	Advanced Cell Signalling in Health and Disease (20 credits)	LSM4936	Advanced Cell Signalling in Health and Disease (6 units)
BS42035	Parasitology (20 credits)	LSM4937	Parasitology (6 units)
BS42036	Chemical Biology (20 credits)	LSM4938	Chemical Biology (6 units)
BS42037	Plant-Environment Interactions and Climate Resilience (20 credits)	LSM4939	Plant-Environment Interactions and Climate Resilience (6 units)