

**You're the future.
Make Newcastle
yours.**





Foundation in Science

(R2/0011/3/0291) (08/30) (MQA/FA 4131)



Duration
1 Year



Intakes
May & September



Inspired by Excellence

Since 1834, we've been working to understand our world and through innovation and creativity, push the boundaries of knowledge. Our research is world-leading.

We've nurtured generations of students to play their part in building a society that's better, stronger, fairer. Our community of over 270,000 alumni are creating outstanding impact across the globe.

We've developed a global network of strategic industry partners and employers. Our collaborations generate ideas and solutions that create economic, social and cultural impact worldwide.



**GLOBAL
TOP 150
UNIVERSITY**

(Ranked 149th, QS World University Rankings 2027)



Awarded 5+ QS Stars for Excellence 2025

TOP 100

Medicine category

QS World University Rankings by Subject 2026

**RUSSELL
GROUP**

Founding Member

Global presence with campuses in the **UK, Malaysia and Singapore**



Entry Requirements

5Bs in Biology, Chemistry, Physics, Mathematics/ Additional Mathematics and one other subject in SPM/ IGCSE/ O-Level or equivalent.



Age Requirements

You should be at least **16 years old** at the time of enrolment.



English Requirements

Malaysian applicants
CEFR English¹: B2, C1 or C2
IGCSE 1st Language - C
IGCSE 2nd Language - B

¹CEFR English : C1 or C2 for entry to the medical programme

International applicants
Please refer to the undergraduate English Requirements.



Tuition Fees

Malaysian applicants
RM 28,400 for one year programme
International applicants*
RM 36,100 for one year programme

*Tuition fees exclude 6% SST and apply to international students only.

The programme serves as a pre-undergraduate foundation pathway for students intending to pursue medicine, biomedical sciences, or other related science programmes at NUMed or other higher education institutions, depending on their final grades.

- 12-month Foundation in Science programme at our state-of-the-art campus in Malaysia.
- Award conferred by Newcastle University, UK.

Programme Outline

Medical Science Pathways

Semester 1

- Biology 1
- Chemistry
- Mathematics and Statistics
- English for Academic Purposes
- Study Skills and ICT for Science and Medicine

Semester 2

- Biology 1 & 2
- Chemistry
- Mathematics and Statistics
- English for Academic Purposes
- Study Skills and ICT for Science and Medicine

Semester 3

- Biology 2
- Foundation of Medical Studies
- Physics
- English for Academic Purposes

Data Science Pathways

Semester 1

- Core Mathematics A
- Foundation Computing
- Mathematics and Statistics
- English for Academic Purposes
- Study Skills and ICT for Science and Medicine

Semester 2

- Core Mathematics A&B
- Foundation Computing
- Mathematics and Statistics
- English for Academic Purposes
- Study Skills and ICT for Science and Medicine

Semester 3

- Core Mathematics B
- Foundation of Medical Studies
- Physics
- English for Academic Purposes

Closing Dates Malaysian students: No closing date

International students: 31st March (May intake) | 17th July (September intake)

Bachelor of Medicine, Bachelor of Surgery

(R3/O912/6/O028) (O2/33) (MQA/FA 12045)

 **Duration**
5 Years

 **Intake**
September



MBBS
5 Years in Malaysia Campus



Tuition Fees

Malaysian applicants: RM 103,600 per year
International applicants*: RM 134,200 per year
*Tuition fees exclude 6% SST and apply to international students only.



Age Requirements

You should be at least **18 years old** at the time of enrolment.



Closing Dates

Malaysian students: No closing date
International students: 17th July



MBBS - 2+3 Pathway*
2 Years in Malaysia Campus +
3 Years in Newcastle, UK Campus
*Terms and conditions apply



Tuition Fees (Year 1 & 2)

Malaysian applicants: RM 103,600 per year
International applicants*: RM 134,200 per year
*Tuition fees exclude 6% SST and apply to international students only.

Tuition Fees (Year 3-5)

£61,045 per year

- This programme is aligned with the MBBS programme offered in the UK, with additional elements specific to the local context.
- 5-year programme in Malaysia, with opportunities for a period of study or clinical training in the UK.



Entry Requirements

Newcastle's Foundation	CGPA 3.50, with an overall average of 75%, including at least 70% in English for Academic Purposes, 75% in Biology 1, Biology 2 and Chemistry, and 70% in Foundation Medical Studies
A-Level / STPM	A,B,B (Biology, Chemistry and Physics or Mathematics)
International Baccalaureate Diploma	33 points in Biology, Chemistry and Mathematics at Higher Level Grade 5 and above
Foundation in Science / Malaysian Matriculation	CGPA 3.75
Monash University Foundation Year	Score of 80% with 80% in Biology and Chemistry
Australian Year 12	ATAR score of 85
Indian Board Class 12th	Score of 80% with 80% in Biology and Chemistry
American Advanced Placement (AP)	Score of 5,4,4 or Grade A,B,B (Biology, Chemistry and Physics or Mathematics)
CPU, CIMP, Ontario Grade 12	Score of 80%
Unified Examination Certificate (UEC)	A score of two A2 and three B3 (A2, A2, B3, B3, B3) on the following subjects: Biology, Chemistry, Physics, Advanced Mathematics I and Advanced Mathematics II

Your pre-university qualifications must include **Biology, Chemistry, and Physics or Mathematics** at A-Level or STPM equivalent.

EN

English Requirements

You must meet the minimum English language requirements. You can do this by completing one of the qualifications: IELTS (overall score of 7), MUET (Band 4), TOEFL (100), Pearson Test of English Academic (69), CAE (185), CPE (185) and Cambridge Linguaskill (185)



Malaysian Medical Council requirements

All pre-university qualifications except A-Level, STPM and degree must have 5Bs in Biology, Chemistry, Physics, Mathematics or Additional Mathematics and one other subject at SPM/IGCSE (equivalent).

Programme Outline

Year 1	- Case based Study (26 weeks) - Early Clinical Community Experience
Year 2	- Case based Study (25 weeks) - Early Clinical Community Experience - Transition to Clinically Based Training (3 weeks)
Year 3	- Essentials of Clinical Practice (8 weeks) - Medicine, Acute Care and Surgery (6 weeks) - Integrated Core Clinical Placements (4x4 weeks) - Specialist Topics 1 (4 weeks)
Year 4	- Advanced Clinical Experience (semester 1 & 2) - Acute & Critical Care (8 weeks) - Specialist Topics 2 (4 weeks) - Student-Selected Component 1 & 2 (8 weeks)
Year 5	- Assistantships in Child Health, Mental Health, Primary Care, Reproductive Health & Good Medical Practice (5 x 3 weeks) - Elective (8 weeks) - Assistantships in Medicine/Surgery/Orthopaedics (3 x 4 weeks)

After You Qualify

Upon successful completion of the entire programme, you will be awarded the Bachelor of Medicine, Bachelor of Surgery (MBBS), conferred by **Newcastle University, UK**.

The Newcastle University MBBS medical degree awarded to NUMed graduates leads to professional recognition and is subject to the requirements of both the **General Medical Council (GMC), UK**, and the **Malaysian Medical Council (MMC)**.

Recognition by the General Medical Council

As the degree is recognised by the General Medical Council (GMC), UK, NUMed graduates are eligible to apply for the UK Foundation Programme (UKFP) offered through NHS Postgraduate Deaneries. Successful applicants undertake a two-year structured training programme. Upon satisfactory completion of the first year (FY1), together with a successful Annual Review of Competence Progression (ARCP), graduates become eligible for full registration with the GMC.

Any offer of a place in the programme is made in the understanding that NUMed Malaysia does not guarantee any period of internship in the UK, Malaysia or other parts of the world.

For International graduates

International graduates are not eligible for a pre-registration internship in Malaysia. Therefore, you should ensure that your home country will offer you a house officer post after graduating from NUMed.

For Malaysian graduates

To gain full registration with the MMC, you must undertake a two-year house officer post provided by the Malaysian government in a government hospital. After completing this housemanship period, you will be eligible for full registration with the MMC.

Additionally, if you wish to gain full registration with the GMC while working in Malaysia as a house officer, you must complete one year of housemanship at one of the eight GMC-approved hospitals in Malaysia and be awarded a Certificate of Experience. This certificate will allow you to apply for full registration with the GMC.



BSc (Honours) Biomedical Sciences

(R2/O910/6/0013) (01/28) (MQA/FA 2632)



Duration
3 Years
(2+1)



Intake
September



Tuition Fees

Malaysian applicants
RM 43,700 per year

International applicants*
RM 56,200 per year²

²Similar tuition fees for the final year in the UK Campus

^{*}Tuition fees exclude 6% SST and apply to international students only



Age Requirements

You should be at least **17 years old** at the time of enrolment.



Closing Dates

Malaysian students
No closing date

International students
17th July

- First two years at our state-of-the-art campus in Malaysia
- Final year at Newcastle University, UK, with a 10-week research project
- Degree conferred by Newcastle University, UK



Entry Requirements

Newcastle's Foundation	CGPA of 3.00, with an overall average of 65% with 65% in English for Academic Purposes and 70% in Biology 1 and 2 and 55% in Chemistry
A-Level / STPM	B,B,C (Biology, Chemistry and one other subject)
International Baccalaureate Diploma	30 points in Biology (HL), Chemistry (HL) and one other science subject ³ (HL)
Foundation in Science / Malaysian Matriculation	CGPA 3.30
Monash University Foundation Year	Score of 70%
Australian Year 12	ATAR score of 70
Indian Board Class 12th	Score of 70%
CPU, CIMP, Ontario Grade 12	Score of 80%
American Advanced Placement (AP)	Score of 4,4,3 or Grade B,B,C (Biology, Chemistry and one other subject)
Unified Examination Certificate (UEC)	5B4 in Biology, Chemistry, Physics, Advanced Mathematics I and Advanced Mathematics II

Credit transfers from other diploma and bachelor's degree programmes are available, subject to approval.

Please note your pre-university qualifications must include **Biology, Chemistry, and one other subject** at A-Level or STPM equivalent.

³We regard Biology, Chemistry, Mathematics, Physics, Psychology as acceptable Science subjects.



English Requirements

You must meet the minimum English language requirements. You can do this by completing one of the qualifications; IELTS (overall score of 6.5), TOEFL (90), MUET (Band 3), Pearson Test of English Academic (62), CAE (176), CPE (176) and Cambridge Linguaskill (176)

Programme Outline

Year 1	• Biochemistry • Cell Biology • Genetics • Microbiology and Immunology • Pharmacology • Physiology • Practical Skills in Biomedical and Biomolecular Sciences • Industrial Placement during Summer Break
Year 2	• Essential Biomedical Research Skills • Control of Eukaryotic Gene Expression • Cell Biology and Disease • Cell and Molecular Biology of the Immune System • The Nervous System and Respiratory Diseases • Clinical Immunology and Viral Pathogens • Human Anatomy • Practical and Presentation Skills in Biomedical Sciences • Industrial Placement during Summer Break
Year 3 Semester 1	You will study three modules, one from each of the following lists List A • Genetics and Diseases • Clinical Ageing and Health • Immunology of Health and Disease List B • Cancer Biology and Therapy • Disorders of the Nervous System • Chronic Disease List C • Epidemiology • Medical Biotechnology • Microbiota and Pathogens: Mucosal Microbiota, Protozoa and Fungi You will also take one of the following vocational modules: Business Enterprise for the Bioscientist or Research in Biomedical Sciences or Health and Illness: Professional and Societal Perspectives or Science Communication or Bioethics or Bioinformatics.
Year 3 Semester 2	• Research Project or Experimental Design and the Process of Research

Career Paths



Biomedical Scientist



Research Scientist (medical)



Biotechnologist



Higher Education Lecturer



Pharmaceutical Industry



Medical Sales Representative



Microbiologist



Science Writer



BSc Honours Sport and Exercise Science

(N/1014/6/0006) (04/31) (MQA/PA 18882)

**Duration**
3 Years
(2+1)

**Intake**
September
(AY 2027/2028)



Tuition Fees

Malaysian applicants
RM 43,700 per year

International applicants*
RM 56,200 per year

Similar tuition fees for the final year in the UK Campus

*Tuition fees exclude 6% SST and apply to international students only



Age Requirements

You should be at least **17 years old** at the time of enrolment.



Closing Dates

Malaysian students
No closing date

International students
17th July

- First two years at our state-of-the-art campus in Malaysia
- Final year at Newcastle University, UK, with a 10-week research project
- Degree conferred by Newcastle University, UK



Entry Requirements

Newcastle's Foundation	CGPA of 3.00, with an overall average of 65% with 65% in English for Academic Purposes and 70% in Biology 1 and 2 and 55% in Chemistry
A-Level / STPM	B,B,C with at least 2 subjects from Mathematics, Physics, Chemistry, Biology/Human Biology, Physical Education and Psychology
International Baccalaureate Diploma	30 points in Biology/Chemistry and at least one science subject ³ at Higher Level Grade 4 and above
Foundation in Science / Malaysian Matriculation	CGPA 3.30
Monash University Foundation Year	Score of 70%
Australian Year 12	ATAR score of 70
Unified Examination Certificate (UEC)	A score of 4 based on the average of the following subjects: Biology, Chemistry, Physics, Advanced Mathematics I and Advanced Mathematics II, with none of these subjects achieving less than B4
Indian Board Class 12th	Score of 70%
American Advanced Placement (AP)	Score of 4,4,3 or Grade B,B,C (Biology, Chemistry and one other subject)
CPU, CIMP, Ontario Grade 12	Score of 70%

Credit transfers from other diploma and bachelor's degree programmes are available, subject to approval.

Please note your pre-university qualifications must **include Biology, Chemistry, and one other subject** at A-Level or STPM equivalent.

³We regard Biology, Chemistry, Mathematics, Physics, Psychology as acceptable Science subjects.

EN

English Requirements

You must meet the minimum English language requirements. You can do this by completing one of the qualifications; IELTS (overall score of 6.5), TOEFL (90), MUET (Band 3), Pearson Test of English Academic (62), CAE (176), CPE (176) and Cambridge Linguaskill (176)

Programme Outline

Year 1	• Human Physiology and Practical Skills • Physical Activity, Nutrition and Health • Bioenergetics • Introduction to Biomechanics • Anatomy • Introduction to Sport and Exercise Psychology
Year 2	• Principles of Strength and Conditioning • Applied Sport and Exercise Psychology • Applied Sport and Exercise Nutrition • Research Methods for Sport and Exercise Science • Exercise Physiology • Applied Biomechanics
Year 3	• Sport and Exercise Science Research Project • Sport and Exercise Science Medicine • Factors Affecting Elite Performance • Lifestyle and Disease • Career Development for Sport and Exercise Scientist



Career Paths

As a sport and exercise science graduate with a strong foundation in science and applied research approaches to sport and exercise, you'll be highly sought after by employers.

Sport and exercise science graduates have a number of career options including jobs in the following:

**National governing bodies**

**Professional sports clubs**

**UK Institutes of Sport**

**Health services**

**Pharmaceutical and food and drink industry**

**Education**

Graduates with a strong background in sport and exercise science are ideally suited to fulfil emerging roles that overlap the fields of medicine, exercise and health promotion.

With an exercise science-related degree, you could also:

- Undertake medical and health-related research in universities and research institutes
- Work in hospitals and public health laboratories
- Take a further degree (MSc or PhD qualification) before embarking on permanent employment

Bachelor of Science (Honours) in Data Science

(N/0540/6/0003) (07/33) (MQA/PA 19043)

**Duration**
3 Years

**Intake**
September
(AY 2027/2028)



Tuition Fees

Malaysian applicants
RM 43,700 per year

International applicants*
RM 56,200 per year

*Tuition fees exclude 6% SST and apply to international students only



Age Requirements

You should be at least **17 years old** at the time of enrolment.



Closing Dates

Malaysian students
No closing date

International students
17th July

- All three academic years are delivered at NUMed Malaysia campus in Iskandar Puteri, Johor. The programme follows the academic standards and quality assurance framework of Newcastle University, ensuring consistent academic quality and assessment standards across the full course of study.
- Degree conferred by Newcastle University, UK



Entry Requirements

Newcastle's Foundation	CGPA 3.00 including B in Mathematics and one subject from Physics, Chemistry, Biology, Computing, Further Mathematics or Psychology, and one other subject.
A-Level / STPM	Minimum B, B, C including B in Mathematics and one subject from Physics, Chemistry, Biology or Human Biology, Computing, Further Mathematics or Psychology, and one other subject.
International Baccalaureate Diploma	29 points with at least one science subject at Higher Level Grade 5 and above. Standard Level Mathematics or Mathematical Studies is required at Grade 4 or above if not offered at Higher Level. IB overall points include the additional points available for the Theory of Knowledge and Extended Essay.
Foundation in Science / Matriculation	CGPA 3.30 including B in Mathematics and one subject from Physics, Chemistry, Biology or Human Biology, Computing, Further Mathematics or Psychology, and one other subject.
Monash Foundation Year / Australian Year 12	An average of 70%, including B in Mathematics and one subject from Physics, Chemistry, Biology or Human Biology, Computing, Further Mathematics or Psychology, and one other subject.
National Certificate of Educational Achievement (NCEA Level 3 / New Zealand Bursary)	Minimum of 80 credits, including two Level 3 subjects endorsed with Merit and one Level 3 subject endorsed with Achieved, equivalent to BBC at A-Level. Subjects must include B in Mathematics and one subject from Physics, Chemistry, Biology or Human Biology, Computing, Further Mathematics or Psychology, and one other subject.
All India Senior School Certificate / Indian School Certificate	70% based on the average of the five best academic subjects, including B in Mathematics and one subject from Physics, Chemistry, Biology or Human Biology, Computing, Further Mathematics or Psychology, and one other subject.
CPU, CIMP, Ontario Grade 12	70% based on the average of the six best Grade 12 subjects, including Mathematics (above 70%) and one subject from Physics, Chemistry, Biology or Human Biology, Computing, Further Mathematics or Psychology, and one other subject.

American Advanced Placement (AP)	Score of 4, 4, 3 points, with 4 points in Mathematics and one subject from Physics, Chemistry, Biology or Human Biology, Computing, Further Mathematics or Psychology, and one other subject.
Unified Examination Certificate (UEC)	A score of 4 based on the average of Biology, Chemistry, Physics, Advanced Mathematics I and Advanced Mathematics II, with none of these subjects achieving less than B4.



English Requirements

You must meet the minimum English language requirements. You can do this by completing one of the qualifications; IELTS (overall score of 6.5) TOEFL (90), MUET (Band 3), Pearson Test of English Academic (62), CAE (176), CPE (176) and Cambridge Linguaskill (176)

Programme Outline

Year 1	• Foundations of Data Science • Programming Portfolio I • Real Analysis • Introductory Calculus • Introduction to Probability & Statistics • Number Systems • Introductory Algebra • Multivariable Calculus
Year 2	• Statistical Inference • Security Programming • Algorithm Design & Analysis • Linear Algebra; Probability • Frontiers in Data Science A • Numerical Methods with Python • Stochastic Processes • Data Visualisation • Mathematical Biology • Regression • Includes an Industrial Placement
Year 3	• Data Innovation Bootcamp • Biomedical Data Analytics and AI • Statistical Modelling • Computer Vision and AI • Data Science Group Project • Frontiers in Data Science B • Foundations of Machine Learning • Clinical Trials • Decision Modelling in Health Data Science • Topics in Medical Statistics and Health Data Science

Career Paths



Data Scientist



Data Engineer



Business Intelligence Analyst



Data Analyst



Machine Learning Engineer



Data Governance or Quality Specialist

Work in a range of industries

Sectors employing data science graduates include:

- Finance and Banking
- Healthcare and Life Sciences
- Technology and Software
- Telecommunications
- Government and Public Sector
- Retail and E-commerce
- Logistics and Supply Chain
- Energy and Utilities
- Consultancy



numedmalaysia



NewcastleUniversityMedicineMalaysia



school/newcastle-university-medicine-malaysia



NewcastleUniversityMedicineMalaysia



numedmalaysia

Contact us

admissions@newcastle.edu.my | +607 555 3800

For more information

<https://www.ncl.ac.uk/numed/study-with-us/>

Newcastle University Medicine Malaysia (NUMed)

1, Jalan Sarjana 1, Kota Ilmu, EduCity@Iskandar,
79200 Iskandar Puteri, Johor

NUMed Malaysia Sdn. Bhd. (No. 792091-W)

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Although every effort is made to ensure the accuracy of this Foundation & Undergraduate Guide, it is intended solely for the general guidance of prospective students. This publication is aimed at individuals interested in applying for admission to the University in 2026 and serves as advance publicity for informational and guidance purposes only. The content does not constitute a contract between the University and prospective students. Details provided are accurate at the time of publication in August 2026. The most up-to-date and comprehensive information can be found on the undergraduate website at [ncl.ac.uk/numed/study-with-us/](https://www.ncl.ac.uk/numed/study-with-us/).

The information covered in this publication is subject to change both before and after a candidate's admission. The University reserves the right to make reasonable changes as necessary, and unavoidable amendments may occasionally occur. These changes could affect the availability of degree programmes, subjects, modules, options within programmes, and additional opportunities such as placements, field trips, and exchange visits. Reasons for such changes may include, but are not limited to, timetabling constraints, staffing changes, requirements from accrediting bodies, academic developments within subject areas, or insufficient student numbers for a particular course.