Any questions?

Faculty of Medical Sciences

Medical Sciences Careers

Newcastle University
What are we going to cover?

- What are the Medical Sciences?
  - Why Medical Sciences?
    - What is a Medical Science career?
      - How do I get there?
        - Where can the Medical Sciences lead to?
What are the Medical Sciences?

Newcastle University offers the following subject areas within its Faculty of Medical Sciences...

Medicine  Dentistry  Biomedical Sciences  Psychology  Nutrition  Pharmacy  Sport and Exercise Science

Each of these subjects involve the "science of dealing with the maintenance of health and the prevention and treatment of disease".
Why could a Medical Sciences career be for you?

- Caring for others
- People orientated
- Problem solving
- Passion for Science
- Forever changing environment
- Challenging but rewarding work
Why could a Medical Sciences career be for you?

Medical Sciences graduates are now one of the most desired.

This is because we need 13% more Medical Sciences graduates in jobs by 2024!

The Medical Sciences industries are constantly growing, so the amount of specialists we need is rapidly increasing!
Some stats....

75% of Medical Science graduates go straight into graduate level jobs!

....and that's with an average starting salary of £20,000 or above!

Plus! Top salaries for Medical Science graduates average at around £70,000!
What kind of jobs can Medical Sciences lead to?

- Doctor
- Dentist
- Nutritionist
- Toxicologist
- Clinical Psychologist
- Forensic Psychologist
- Dental Therapist
- Immunologist
- Sport Psychologist
- Researcher

And so many more!
What is Medicine?

An **academic or technical** degree awarded for studies in fields associated with **Medicine and Surgery**.

The study of the **Human Body and Human Disease**.

Diagnosis and treatment of **human disease** and the study of **modern medicine**.
What does our course offer?

- High educational standards.
- Excellent teaching areas and state-of-the-art clinical facilities.
- Nationally recognised academics as staff.
- Varied teaching methods.

Medicine at Newcastle is an integrated course.

This means you have lectures but also have clinical attachments from the start!
What about after my degree?

After you have completed your Medicine degree, you will then become a Junior Doctor for two Foundation years.

You will then undergo Core medical training (CMT) or Acute Care Common Stem training (ACCS).

Then, you choose your specialty...

- General practice training (GP trainee): 3 years
  - Must complete an MRCP exam.

- Specialty and general practice training: 4-6 years
  - Requires an additional assessment after the core training.
  - Must complete additional exam after the core training.

- Training to become a General Practitioner

- Required if you would like to specialise in a specific area of Medicine.
General practice training (GP trainee): 3 years

You need to complete this training to be included on the GP Register and be able to practice.

Training to become a General Practitioner.

Must complete an MRCGP exam.
Specialty and general practice training: 4-6 years

Required if you would like to specialise in a certain area of Medicine.

This period of your career involves in depth learning and practise in advanced areas and working more autonomously, with continued supervision from senior Doctors.

Gain entry to either the GMC specialist register or GP register.
What can I specialise in?

Academic medicine  Radiology - oncology
Anaesthesia  Sport and exercise medicine
General medicine specialties  Emergency medicine
General practice  Obstetrics and gynaecology
Occupational medicine  Paediatrics and child health
Ophthalmology  Public health medicine
Pathology  Surgical specialties
Psychiatry  And many more...
So, what is Dentistry at university?

Covers Human Dental structure, function, behaviour, clinical dental studies and related sciences

Develop the Skills required to provide for the complete oral health of patients

The treatment and prevention of a wide range of diseases of the Mouth from tooth decay to oral cancer
What does our course offer?

- High educational standards.
- Excellent teaching areas and state-of-the-art clinical facilities.
- Nationally-recognised academics as staff.
- Varied teaching methods.

Dentistry is split into five stages, spanning five years.
What about after my degree?

The first stage is Dental Foundation Training (DFT) and must be for a minimum of one year full-time (or a part-time equivalent).

This is spent in primary care, providing NHS general dental services, and allowing completion of statutory Vocational Training.

The second stage of training is for those wanting to work in hospital dental services (in orthodontics, restorative dentistry, oral medicine, oral pathology, paediatric dentistry, or academic oral surgery) who will then undertake a period within a hospital.
A period of vocational training (VT)/dental foundation training within a dental practice.

Later on, a dentist may often become a practice owner, either becoming a partner, buying a practice or establishing a new practice.

General dental service (GDS)/personal dental service (PDS)

Following dental foundation training, dentists usually enter an established general practice as an associate or as an assistant.
Within the hospital service there is a defined career structure and training pathway.

The first stage after dental school, is to complete a period of Dental Foundation Training.

Hospital dentistry

Advancement then requires obtaining recognised postgraduate qualifications.
Experience is gained as a community clinical dental officer (CCDO) with further opportunity to gain postgraduate qualifications by part-time study.

Must normally undertake a period of vocational training as outlined above for dentists wishing to work in the GDS.

Ambitious CCDOs may wish to become a senior dental officer (SDO), with a special responsibility.

Community dental service (CDS)
So, what is Biomedical Sciences?

The study of the Human Body at a cellular and molecular level

Looking at Human Disease at a cellular and molecular level

Developing Modern Medicine techniques and procedures
Graduate Profiles

- Brigitte
  BSc Biomedical Sciences
  Current position: Managing Director, Beauty by the Gwines

- Andrew
  BSc Biochemistry
  Current position: Post-Graduate Medicine, Newcastle University

- Charlene
  BSc Biomedical Sciences
  Current position: Trainee Accountant at KPMG

- James
  BSc Pharmacy
  Current position: Process Technician, GlaxoSmithKline

- Chris
  BSc Biomedical Genetics
  Current position: PhD in Cell and Molecular Biology, Edinburgh University
Brigitte

BSc Biomedical Sciences

Current position: Managing Director,
Beauty by the Geeks
James

BSc Pharmacology

Current position: Process Technologist, GlaxoSmithKline
Andrew

BSc Biochemistry

Current position: Post-Graduate Medicine, Newcastle University
Christian

BSc Biomedical Genetics

Current position: PhD in Cell and Molecular Biology, Edinburgh University
Charlene

BSc Biomedical Sciences

Current position: Trainee Accountant at KPMG
What is Psychology?

The scientific study of People, the Mind and Behaviour

Particular focus on the Scientific and Experimental study of mind and behaviour

Topics such as Developmental and Social psychology, Personality and Abnormal psychology as well as Evolution and Genetics for psychologists
Single Honours

Accredited by the BPS (British Psychological Society)

Modules include:
- Developmental Psychology
- Evolutionary Psychology
- Forensic Psychology
- Clinical Psychology
- Abnormal Psychology and Psychiatry

Psychology BSc (C800)
Joint Honours

Accredited by the BPS (British Psychological Society)

These degrees allow you to combine modules from different degree programmes in order to attain a Joint Honours degree.

Newcastle University offers three Joint Honours degrees that incorporate Psychology:

- Biology and Psychology BSc (CC18)
- Mathematics and Psychology BSc (CG81)
- Nutrition and Psychology BSc (BC48)
The Pathways of Psychology...

Clinical and Forensic Psychology

Psychology BSc → Placement Year
Clinical/Forensic Psychology Masters
Clinical/Forensic Doctorate
Internship Opportunity
Our Graduates...

Matt

Education Officer, Newcastle University

Harriet

Masters in Radiotherapy and Oncology

Will

Research Assistant, Institute of Neuroscience

Cat

Healthcare Assistant
Psychology Conference
Summer 2017

If you are studying Maths, Chemistry, Biology, Physics or Psychology at A Level

Complementary refreshments

Hear about research at the forefront of Psychology

Keep an eye out and register at: www.ncl.ac.uk/psychology/about/news
What is Pharmacy?

Pharmacists are involved in Prescribing and Dispensing medicines.

Develops Scientific, Communication and Technical skills.

There is an increasingly significant role in the Diagnosis and Management of illnesses.
Pharmacy at Newcastle

• New at Newcastle for 2017 entry
• Transferred from Durham
• Quality case-led teaching
• 4 Year Course (MPharm)
What about after graduation?

MPharm Degree

Pre-registration training
52 weeks
Assessment
Registered Pharmacist
Community Pharmacist
Hospital Pharmacist

Research Scientist
Toxicologist
Lecturer
Medical sales representative
Product/process development scientist
What is Food and Human Nutrition?

The study of the impact of **Nutrition on Health and Disease**

From the **Cellular and Molecular Level** level through to **People and Populations**

Discover the impact of **Food Composition and Processing** on **Nutritional Value, Quality and Consumer Acceptance**
Single Honours

Accredited by the Association for Nutrition

Modules include:

- Nutrition and Metabolism
- Human Nutrition in Health and Disease
- Experimental Food Science
- Sports and Exercise Nutrition
- Food Microbiology

Food and Human Nutrition BSc (B4D6)
Joint Honours

Accredited by the Association for Nutrition

These degrees allow you to combine modules from different degree programmes in order to attain a Joint Honours degree.

Newcastle University offers three Joint Honours degrees that incorporate Food and Human Nutrition:

- Nutrition and Psychology BSc (BC48)
- Nutrition with Food Marketing BSc (BD46)
What about after graduation?

- Nutritional therapist
- Animal nutritionist
- Technical brewer
- Lecturer
- Food Marketing
- Product/process development scientist
- Research Scientist
- Dietitien
- Food technologist
What is Sport and Exercise Science?

The study of **Sport** and **Exercise** in relation to **Human Performance** and **Health**

Study key Sport and Exercise Science Disciplines such as anatomy, physiology, biomechanics, psychology, bioenergetics and nutrition

Develops key Practical Skills, both in the Laboratory and in the Field
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