

ETUDIER EN ECOSSE

BSC À “NAPIER UNIVERSITY” – EDINBURGH

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Un accord a été passé en 2002 avec l'université Napier (Edinburgh) et les étudiants de l'IUP “ingénierie santé” de Montpellier pouvaient aller faire leur deuxième année en Ecosse. Cette convention n'est bien sûr pas mise en cause par le passage au système LMD, et ce sont les étudiants de L3 qui partent maintenant. La pratique de la langue anglaise à bon niveau est une nécessité absolue dans les secteurs industriels où nos étudiants devront trouver du travail à la fin de leurs études, et chaque année, ce sont environ 12 étudiants qui partent pour l'Ecosse, tout à leur bénéfice.



LES ENSEIGNEMENTS :

Les étudiants d'ingénierie-santé ont accès à 2 BSc (licence), dont les programmes sont compatibles avec le cursus habituel à Montpellier. Ils doivent prendre le niveau **(stage 3) dans l'un des 2 cursus présentés ci-dessous :**

BSC (HONS) BIOMEDICAL SCIENCE F/T

COURSE DESCRIPTION

This is a Degree that underpins students knowledge of human biology and leads on to the biomedical sciences modules which will concentrate on the various disciplines and on the planning of investigations of medical problems, the interpretation of data, and the causes and management of diseases. There is a module on medical microbiology and the biomedical science modules include haematology, clinical biochemistry, medical physiology and pathology. Case-studies of diseases form an important and integral part of this programme. Students will also learn about modern immunology and molecular biology which are at the cutting edge of the medical sciences. The Honours course is accredited by the Institute of Biomedical Science.

- **Stage 1 :** Life on Earth, Human Biology, Cell Biology, Biological Molecules, Quantitative methods for Biological Sciences, Learning Toolkit, Practical Modules 1 and 2.
- **Stage 2 :** Human and Animal Physiology, Biochemistry, Microbiology, Pathobiology, Learning Toolkit, Practical Modules 3 and 4, Elective.
- **Stage 3 :** Medical Microbiology, Molecular Genetics, The Immune System, Medical Physiology, Pharmacology and Toxicology, Clinical Biochemistry, Elective, Dissertation and Statistics.

- **Stage 4** : Immunology, Biomedical Applications of Molecular Biology, Cellular and Molecular Pathology, Advanced Biomedical Science, Honours Project.

BSC (HONS) MICROBIOLOGY AND BIOTECHNOLOGY F/T

COURSE DESCRIPTION

You will consider how biotechnology exploits the diversity of this microbial world in the production of drugs, food and the decontamination of our environment. You will discover how an understanding of a microbe's ability to exist in a diversity of environments can lead to applications that benefit humans and their environment. Through modules on medical microbiology, immunology and pharmaceutical biotechnology you will learn of the responses of the human immune system to invading bacteria and viruses and the exploitation of this knowledge by the pharmaceutical industry in the development of drugs, vaccines and diagnostic kits.

- **Stage 1** : Life on Earth, Human Biology, Cell Biology, Biological Chemistry, Quantitative methods for Biological Sciences, Learning Toolkit Practical Modules 1 and 2.
- **Stage 2** : Microbes and Man, The Microbial Cell, Biochemistry, Human and Animal Physiology, Learning Toolkit, Elective, Practical Modules 3 and 4.
- **Stage 3** : Medical Microbiology, Health-care and Pharmaceutical Biotechnology, Food Microbiology and Biotechnology, Environmental Microbiology, Molecular Genetics, The Immune System, Elective, Dissertation and Statistics.
- **Stage 4** : Current Topics in Biotechnology, Molecular Biotechnology, Environmental Biotechnology, Bioprocess Technology, Honours Project.

