

## Foundation Degree in Life Science Laboratory Technology

This foundation degree combines a range of practical techniques used in a diverse range of laboratories, for example: healthcare and the NHS, food production, manufacturing and quality control, diagnostics, molecular biology and chemical analysis. This is underpinned by academic knowledge of the underlying biology and chemistry of these techniques, their development and application. The course is based on the work environment and includes a high proportion of practical work and work simulation. The course has been developed following consultation with the bioscience industry and should offer students good employment prospects.

The course is taught at the Kent Science Resource Centre in Sittingbourne where a new laboratory facility has been purpose built to accommodate practical work-based courses. Nearby businesses at the Kent Science Park will enable you to gain work experience as part of the second year of the course. The lecturing staff have experience of working in industry and academia and are drawn from Mid-Kent College, and our partners the University of Kent and Canterbury Christ Church University.

### Degree programme

- FdSc Life Science Laboratory Technology (C190:H)

#### Year 1

##### Core modules

- Basic Laboratory Practice
- Biochemistry
- Cell Biology
- Human Physiology and Disease
- Introduction to Organic and Medicinal Chemistry
- Intermediate Laboratory Practice
- Microbiology
- Project Management and Work Related Learning

#### Year 2

##### Core modules

- Advanced Laboratory Practice
- Applied Microbiology
- Company Organisation and Entrepreneurship
- Immunity and Infection
- Manufacturing Processes and Advanced Instrumentation
- Metabolism and Enzymes
- Work Placement (12 weeks)

#### Year 3

Leading to BSc Life Science Laboratory Technology (subject to validation)

You can top up the Foundation degree to BSc by further study in the workplace and in the Kent Science Resource Centre.

### Teaching and assessment

Teaching is by a mixture of lectures, seminars, workshops and practical work.

Assessment is by both written examination and by practical and coursework assessment, extended essay/report writing and research project. You are expected to increase your practical expertise during the course and to develop the knowledge to underpin your skills.

### Careers/progression routes

This course which will prepare for a career as a laboratory scientist in the bioscience industry or for further study to BSc. For those working as a laboratory scientist already this course will help with theoretical understanding of the techniques used in industry.

### Award

FdSc

### Programme type

Two years full-time and three and one half years part time

### Offer levels

A/AS level 200 points including DD at A level, or VCE A level in science, BTEC National Certificate or Diploma (merit level) in Science, Access courses in Science.

Mature applicants with experience of working in a science-based industry may also be eligible, subject to interview and assessment of work-based experience. Students with extensive laboratory experience could gain accreditation for prior experiential learning in the workplace.

For students who do not have the correct number of UCAS points we may be able to offer short bridging course to increase knowledge up to the desired level. These courses are also suitable for students who are in work and who have not been in education for some time.

### Required subjects

A level Biology or Chemistry or Maths, GCSE English and Maths grade C