



Waterford Institute *of* Technology

INSTITIÚID TEICNEOLAÍOCHTA PHORT LÁIRGE

UNDERGRADUATE

BSc (Hons) in Applied Computing

Department of Computing, Mathematics and Physics

LEVEL **8**

CODE: WD028



What is the BSc (Hons) in Applied Computing?

It is a four year honours degree course. It is the oldest degree in WIT, and has a solid and unrivalled reputation in the computing industry in Ireland.

The main part of the programme equips you with strong programming/systems development/problem solving skills. You will choose an area of your choice depending on your interests. These areas are called streams and give you an opportunity to specialise in an area of your choice. Currently we have five streams on offer; these are:

- Computer Games
- Computer Forensics
- Informations Systems
- Networks
- Embedded Systems (including automotive software)

As new and exciting areas emerge, we design streams to address these areas so these lists may have even more choice than is currently available.

Your Questions Answered

What subject areas will I study?

Year 1

Topics include:

- Computing Essentials
- Programming
- Software Development
- Mathematics
- Physics
- Thinking & Learning Skills

Year 2

During year 2, students take one module from two streams.

This gives you a taste of two different streams. At the end of second year, you will choose your stream of choice and take 2 modules in this area each semester for the remainder of the programme.

Year 3

Year 3 includes a 6-month work placement. This gives you the opportunity to get experience of the workplace. Students have found that this is an invaluable part of the programme.

Year 4

Year 4 features a major project. This allows you, the student, to use the skills you have gained so far as well as the experience gained from work experience to produce a significant system which will again be tailored to your interests. The project will usually consist of the development of a system, from the start. This could be, for instance, the design and development of a system to examine a group of files for hidden data, design and development of a multi-user game across a network, design and development of testing software for car components. You get the chance to challenge yourself in an area of your choice.

What areas can I expect to work in?

- Software Development
- Games Programming
- Computer Forensics
- Automotive software development
- Network management
- Education
- Research
- Project Management

What follow on study opportunities are available?

Students who successfully complete the BSc (Hons) in Applied Computing may avail of a range of taught and research masters programmes (MSc). On completion of an MSc, students will have the opportunity to pursue a PhD programme.

Entry Details

How do I apply?

You apply through the CAO system, www.cao.ie

Are there any minimum entry requirements?

Total number of different subjects at grade D or better: 6

Total number at higher level grade C or better (Honours): 2

Mathematics OB3/HD3 and English or Irish OD3/HD3 are required subjects.

How do I find out more?

Contact your careers advisor or contact WIT by emailing schoolsliaison@wit.ie, calling 051 845533 or download a prospectus on www.wit.ie

Programme Leader:

Ms. Máiread Meagher

Head of Department:

Dr. Micheál Ó hÉigeartaigh
Department of Computing,
Mathematics and Physics,
Waterford Institute of Technology, Waterford.

Tel: 051 302037

Email: computinginfo@wit.ie

Website: www.wit.ie/wd028