



**B.Sc. in Computer Applications (DC121)**





## B.Sc. in Computer Applications (DC121)

<b>CAO Code:</b>	DC121
<b>Duration:</b>	4 years
<b>Special Entry Requirements:</b>	OC3/HD3 Mathematics Minimum total CAO points requirement of 300 No prior knowledge of computers necessary
<b>Degree Options:</b>	Software Engineering, Information Systems

**Artificial Intelligence, Cryptography, Web Design, Multimedia Technology, Computer Graphics. All interesting subjects with real relevance in today's high-tech world. With DCU's B.Sc. in Computer Applications degree, you will have the opportunity to study these topics (and more) in a modern university setting.**

### A DEGREE FOR LIFE

By studying for DCU's B.Sc. in Computer Applications degree, you will benefit from the following:

- DCU's worldwide reputation for high-calibre computing graduates and consistently high graduate employment statistics.
- Six months paid work placement that gives you real-world experience and boosts your employment value.
- World-class computing facilities designed to enhance your learning experience.
- A choice of two different degree specialisms: one technically-oriented and the other business-oriented. As the first year of the degree is common, you can familiarise yourself with both options before you chose.
- Lots of tutoring support to smooth your transition to college life.
- The opportunity to study some non-computing subjects, such as marketing, physics, electronics, languages or accounting. This will broaden your knowledge and allow you to apply your skills in a greater variety of environments.

## TWO DEGREE SPECIALISMS TO CHOSE FROM

Unlike many universities, DCU is unique in that you don't have to decide on the kind of computing degree that's right for you before you start. You simply enroll for the B.Sc. in Computer Applications, and choose your specialism at the end of first year. The specialisms offered are:

**Software Engineering:** This will equip you with the necessary skills to create software and to invent new ways of using it. Examples of software include web browsers such as Internet Explorer, computer games, accounts packages for managing financial information, and the controllers inside mobile phones. Software engineers typically find work in computing and electronics companies such as Microsoft, Intel, IBM, Iona, and many specialised software companies. Some graduates choose to start their own businesses.

**Information Systems:** This is concerned with how organisations can best use computing technology to allow people to work together, and to enable companies to compete effectively in the marketplace. Most information systems graduates actually work outside the IT sector in banks and insurance companies, manufacturing firms, TV companies, the health industry, and logistics companies.

## COURSE STRUCTURE

The table below shows how the programme is structured over four years. A strong emphasis on practical work is evident, and this allows students to develop employment-enhancing skills in areas such as team working and problem solving. Following completion of the final year project, an annual display of the students' work acts as a showcase of their talents to the industrial and business communities. It also allows potential employers to experience the high standard and broad range of the development work carried out by students on the course.

<b>Year 1</b>	<ul style="list-style-type: none"><li>• Core introductory hardware and software modules</li><li>• Elective modules drawn from marketing, physics, electronics, languages, etc. or further computing topics</li></ul>
<b>Year 2</b>	<ul style="list-style-type: none"><li>• Information Systems or Software Engineering specialisations</li></ul>
<b>Year 3</b>	<ul style="list-style-type: none"><li>• Intermediate specialist topics</li><li>• 3rd Year Project</li><li>• "INTRA" work placement programme</li></ul>
<b>Year 4</b>	<ul style="list-style-type: none"><li>• Advanced specialist topics</li><li>• 4th year project</li></ul>



## WORK PLACEMENT

All students go on work placement for six months during their third year. This placement, or "INTRA" programme, integrates your academic study with closely related jobs. This gives you an understanding of the professional and practical business world, and helps you to stand out in the graduate employment market. In nearly all cases, students on work placement are paid. Some students do their placement abroad, typically in the U.K. or U.S.A., but anywhere is possible.

## BROAD CAREER OPPORTUNITIES

With computing technology playing a growing role in all sectors of society, graduates of the B.Sc. in Computer Applications work as software professionals in a range of industries, from leading-edge IT companies, to more traditional finance, government and engineering organisations. Among the firms for which they work are AIB, Accenture, BEA Systems, Compaq, Enterprise Ireland, Hewlett Packard, IBM, Intel, Iona Technologies, Irish Life, Microsoft, RTÉ, Sun Microsystems and Xilinx. In addition, many are heading up their own companies designing new products, while others have pursued further studies leading to careers in research.

The B.Sc. in Computer Applications is accredited by the Institution of Engineers of Ireland. It is recognised throughout the world, and with relevant experience can lead to chartered engineer status and the C.Eng. title.

## WHAT OUR STUDENTS HAVE TO SAY

*"There's something for everyone in this course, because of the wide range of subject choices and different stream options. There is also a great support system in place for students, so although the course is challenging at times, there's always help at hand."*

Aisling Devlin, Information Systems stream, Year 3



*"Thanks to my degree in CA, I've had the opportunity not just to learn the secrets of computing, but to spend 6 months working in Boston for one of the top e-commerce companies in the world. Your university experience is what you make of it, and with DCU's degree in Computer Applications, it can be made great!"*

Declan O'Neill, Software Engineering stream, Year 4

## WHAT EMPLOYERS HAVE TO SAY

*"13 out of our 16 programmers are graduates of the School of Computing at DCU. We have found these individuals to be on the leading edge of programming technology and to be outstanding employees."*

Group CEO  
e-Spatial Solutions

*"The calibre of students forwarded to Openet Telecom is strong evidence of the academic and professional standards set at Dublin City University."*

Recruitment Specialist  
Openet Telecom

## ON-CAMPUS ACCOMMODATION

All first year applicants with 500+ CAO points are guaranteed on-campus accommodation. Details of rent, associated costs and application deadlines are available on-line at [www.dcu.ie/accommodation](http://www.dcu.ie/accommodation).

## FURTHER INFORMATION

You can get more information about this programme and the DCU School of Computing by visiting our website at [www.computing.dcu.ie](http://www.computing.dcu.ie) or by contacting us at (01) 700 8980. Course details and information on studying in DCU are also included in the University's Undergraduate Prospectus. This is obtainable from the DCU website at [www.dcu.ie](http://www.dcu.ie) or from The Registry, Dublin City University, Dublin 9, telephone (01) 700 5338.



For further details, please contact:

School of Computing  
Tel: (01) 700 8980 Email: [marketing@computing.dcu.ie](mailto:marketing@computing.dcu.ie)  
Web: [www.computing.dcu.ie](http://www.computing.dcu.ie)