

UNIVERSITY OF DUBLIN, TRINITY COLLEGE
Faculty of Engineering, Mathematics and Science
School of Computer Science and Statistics

**Computer Science and Computer Engineering Options for
Mathematics Students – 2009/10**

Note: The module codes listed here are the new modules codes that will be used in the 2009/10 academic year. The codes differ significantly from those currently in use.

Semester 1

CS4052/CS4D3 Computer Graphics [10 credits, 1 Semester, 5 hrs/week]

Dr. Veronica Sundstedt (Veronica.Sundstedt@cs.tcd.ie)

<http://www.scss.tcd.ie/courses/ba/localMerged/ss/syllabus.php/?courseId=96&action=ShowDetails>

Prerequisites: Programming and some basic mathematics (linear algebra).

CS4053 Computer Vision [10 credits, 1 Semester]

See also **Semester 2 – CS4D4 Computer Vision [10 credits, 1 Semester, 5 hrs/week]**

Dr Gerard Lacey (Gerard.Lacey@cs.tcd.ie)

<http://www.scss.tcd.ie/courses/ba/module-descriptions/Senior%20Sophister/ECTS%20Module%20Descriptor%20Form%20-%204BA10%20&%204D4.pdf>

Prerequisites: A working knowledge of C++.

This module is offered in both Semester 1 (CS4053) and Semester 2 (CS4D4).

CS4001 Fuzzy Logic [10 credits, 1 Semester, 5 hrs/week]

Prof. Khurshid Ahmad (Khurshid.Ahmad@cs.tcd.ie)

<http://www.scss.tcd.ie/courses/ba/localMerged/ss/syllabus.php/?courseId=104&action=ShowDetails>

CS4011 Functional Programming [10 credits, 1 Semester, 5 hrs/week]

Andrew Butterfield, Glenn Strong (Andrew.Butterfield@cs.tcd.ie,
Glenn.Strong@cs.tcd.ie)

Details to be announced. Please contact module lecturers.

CS4D1A Distributed Systems [5 credits, 1 Semester]

Mr Stephen Barrett (Stephen.Barrett@cs.tcd.ie)

<http://www.scss.tcd.ie/courses/ba/localMerged/ss/syllabus.php/?courseId=97&action=ShowDetails>

Prerequisites: An understanding of computer networks, operating systems, and programming. Prior experience in object-oriented programming would be an advantage but is not essential.

Mr Stephen Barrett (Stephen.Barrett@cs.tcd.ie)

<http://www.tcd.ie/Engineering/undergraduate/baiyear4/subjects/4d1.php>

Prerequisites: CS3D3

CS4D2A Data Engineering [5 credits, 1 Semester]

Dr Vincent Wade (Vincent.Wade@cs.tcd.ie)

<http://www.tcd.ie/Engineering/undergraduate/baiyear4/subjects/4d2.php>

Semester 2

CS4D4 Computer Vision [10 credits, 1 Semester]

See also **Semester 1 – CS4053 Computer Vision [10 credits, 1 Semester, 5 hrs/week]**

Dr Gerard Lacey (Gerard.Lacey@cs.tcd.ie)

<http://www.tcd.ie/Engineering/undergraduate/baiyear4/subjects/4d4.php>

Prerequisites: A working knowledge of C++.

This module is offered in both Semester 1 (CS4053) and Semester 2 (CS4D4).

CS3001 Formal Methods [5 credits, 1 Semester]

Dr Andrew Butterfield (Andrew.Butterfield@cs.tcd.ie)

http://www.scss.tcd.ie/courses/ba/module-descriptions/Junior_Sophister/3B31des.pdf

CS3D3 Computer Networks [5 credits, 1 Semester]

Dr Hitesh Tewari (Hitesh.Tewari@cs.tcd.ie)

<http://www.tcd.ie/Engineering/undergraduate/baiyear3/subjects/3d3.php>

CS3014 Concurrent Systems I [5 credits, 1 Semester]

Dr David Gregg (David.Gregg@cs.tcd.ie)

http://www.scss.tcd.ie/courses/ba/module-descriptions/Junior_Sophister/3BA26-ECTS-Module-Descriptor-Form.pdf

Prerequisites: A good knowledge of C and C++ programming on UNIX.

CS3015/CS3D4 Concurrent Systems II [5 credits, 1 Semester]

Dr Mike Brady (Mike.Brady@cs.tcd.ie)

<http://www.scss.tcd.ie/courses/ba/localMerged/js/syllabus.php/?courseId=86&action=ShowDetails>

Prerequisites: A good knowledge of C and C++ programming on UNIX.

CS4D2B Knowledge Engineering [5 credits, 1 Semester]

Dr Owen Conlan (Owen.Conlan@cs.tcd.ie)

<http://www.tcd.ie/Engineering/undergraduate/baiyear4/subjects/4d2.php>

Prerequisites: CS4D2A