

Electives for Computer Science and Software Engineering,

MEng Computer Science

No elective in first year (it comes in third year).

Computer Science and Software Engineering

The strong recommendation is to choose the follow-up class to MS108, MS109:

1. This is compulsory if you wish to be able to transfer to the MEng at the end of first year.
2. It is a very popular class with CS students.
3. You can always change to another elective before the class starts at the end of January.

Otherwise, to balance your load, you are advised to take a semester 2, 10-credit elective.

More Electives

You can find out about all electives in the class catalogue:

<http://but.mis.strath.ac.uk/classcatalogue/>

You can search for the details of a particular class here:

www.strath.ac.uk/timetables/

Select 'Class Timetables', put a class code in and select 'Standard Both Teaching Weeks'

Electives ... in order of past popularity

CS108 Vertically Integrated Project (Text Lab) 10 credits Semester 2
Wednesday 2-3 GH731 Wednesday 3-5 LT13_01

TextLab focuses on the use of software tools and techniques for textual analysis and how these tools may be applied in understanding the content and characteristics of different types of text. Such applications of software textual analysis are increasingly used across a broad range of disciplines including literature studies (e.g., automating genre identification), education (e.g., for plagiarism detection) and digital forensics (e.g., for authorship analysis). TextLab will mainly comprise lab-based group activities and students will use both Linux and Windows-based software tools. Some of the software tools are generic and may be applied to any textual data. Other software tools are specifically configured for use in analysing Shakespeare plays.

59101 USE AND ABUSE OF DRUGS IN SOCIETY 10 credits Semester 2
Monday 1-2 RC345 and Friday 1-2 TG223

This is a first year elective class that is intended to give an introduction to the therapeutic use of drugs to treat a number of clinically important medical conditions. Additionally, the abuse of drugs (both recreational and those with therapeutic properties) will also be discussed.

PH161 THE UNIVERSE AND EVERYTHING 10 credits Semester 2
Monday 1-2 RC667 and Friday 1-2 RC667

This class is designed to provide students from all faculties with a qualitative understanding of the origins, the structure and the future of the universe, from the very large to the very small electron and quarks. Students will be aware of current investigations on Chaos, complexity, quantum uncertainty and reality.

MM105 APPLICATIONS OF MATHEMATICS**20 credits (requires Higher Maths at B)****Semester 1, Tuesday 11-12****Semester1, Thursday 11-12****Semester 2, Monday 3-4****Semester2, Wednesday 11-12****Can be taken as independent 10 credit classes: MM108 Semester 1 or MM109 Semester 2**

Codes and encryption. Mathematical background: natural numbers and integers, factorisation, proof by induction, highest common factor, lowest common multiple, Euclidean Algorithm, prime numbers and the Fundamental Theorem of Arithmetic, Diophantine equations, modular arithmetic, congruence mod n , solving equations in \mathbb{Z}_n , Euler's phi-function and theorem. Discrete dynamical systems. Graph theory. Paradoxes in mathematics and statistics.

99202 INTRODUCTION TO FORENSIC SCIENCE**10 Credits Semester 2****This class is offered as an online module. You register for the class and details will be sent to you.**

This class provides an introduction to the use of science in the legal process. Crime scene investigation, continuity of evidence, analysis of certain types of sample and report writing are all considered, to give a comprehensive overview of the subject.

23101 PHARMACEUTICAL SCIENCES AND DRUG DEVELOPMENT**10 Credits BOTH SEMESTERS****Wednesday 9-10 JA317**

This class aims to give students within the Faculty of Science an introduction to modern drug development.

EC111 INTRODUCTION TO ECONOMICS**20 credits BOTH SEMESTERS****Tuesday 9-10 JA325 and Thursday 9-10 JA325**

The main topics covered by the class will include: the nature, central problems and significance of economics; supply and demand and an introduction to the theory of the firm; the nature of and solutions to market failure; income determination; prices and money; fiscal and monetary policy; the functioning of the mixed economy; and the economic role of government.

PH160 INTRODUCTION TO ASTRONOMY**10 Credits Semester 1****Tuesday 1-2 GH514 / Assembly Hall****Thursday 1-2 USSA 801 / Level 8****Requires Higher Maths and Standard Grade Physics**

Observational Astronomy: scale, time, distance, and light; telescopes; celestial mechanics; the solar system. Planets and the Solar System: gravity and the solar system; origin of the solar system; the terrestrial planets; the Jovian planets; the Sun.

Stars, Galaxies and Cosmology: Stellar Appearances: stellar evolution; galaxies; cosmology.

LANGUAGE ELECTIVES

Courses in French, Italian and Spanish are available. 1 semester modules worth 20 credits are offered at both Beginners/False Beginners and Post-Higher levels.

The **Introduction to French / Italian / Spanish 1A** classes (Beginners / False beginners) will give you a solid knowledge of the basic grammar and vocabulary and are designed to enable you to reach a good communicative level in the language. This is an intensive course aiming to bring students up to a good communicative level in one semester.

The teaching is usually carried out in tutorial groups (20) at set times arranged in the Department. The beginner's classes offer 3 hours per week and the Post-Higher classes 3 hours per week.

If in doubt about which level to select or for any further information, please contact the appropriate contact person in the School of Humanities using the links below.

- French: Cédric Moreau, c.moreau@strath.ac.uk
- Italian: Dr Paul Hare, paul.hare@strath.ac.uk
- Spanish: vanesa.sabala@strath.ac.uk

Class codes:

French 1A	R1107	Introduction to Italian 1A	R3110
Introduction to French 1A	R1109	Spanish 1A	R4107
Italian 1A	R3108	Introduction to Spanish 1A	R4109

Centre for Lifelong Learning

It may also be possible to take a class from the Centre for Lifelong Learning. These are much more general classes covering Art, Photography, Literature, Drama, Film, Psychology, Genealogy, Languages.

See here:

<https://mycll.strath.ac.uk/?p=Evening%20and%20Weekend>

These classes run in the evening and at weekends.

They depend on places being available.

You have to be very careful with the assessment procedures for these classes. It must be completed before the June exam board.

Should you wish to change your elective to one of those available from the CLL you will need to first check online that a place is available. You need to create a CLL account first and then fill in an online application form to take the class. This must then be signed off by Murray Wood and then taken to the Centre for Life Long Learning to sign up for class (do this all quickly to ensure place still available).

You will also then require to have your curriculum changed and approved on Pegasus - so you'll need to obtain the appropriate class code from the CLL for this - it should begin with OS. If you are permitted to take an elective that starts in semester 1 then you should do this soon. You should be aware that any resit option for such a class may be a resubmission of work shortly after a first deadline. If you pick one of these classes and do not submit work then it does still count in your credit mark average for the year (score would likely be 0 for Absent) so be careful if you do choose one of these classes as your elective.