University College Dublin
An Coláiste Ollscoile Baile Átha Cliath

National University of Ireland, Dublin
Ollscoil na hÉireann, Baile Átha Cliath

BA Degree Programme
(Undergraduate Courses)

Session 2005/06

From September 2005 all first year courses are modularised. Further information is available at www.ucd.ie/horizons

Information For Exchange Students
Re Units And Credits

Throughout this booklet, undergraduate Arts courses, except in Stage 1, are given or deemed to have a *unit* value. A one-unit course consists of one lecture/tutorial per week for a twelve-week period or represents an equivalent proportion of the year's work. Courses of two or three units are *pro rata*. Normally a student would take courses to the value of twenty-four units in a full year.

In addition, University College Dublin has adopted a system of *credits*, awarded for work successfully completed. In line with the European Course Credit Transfer System (ECTS), a full year's work successfully completed will be allotted 60 credits.

Exchange students and others involved in ECTS transfer of courses should note that to determine the number of credits which will be allotted to a successfully completed day Arts course, the Arts and Celtic Studies College unit value should be multiplied by 2.5. Thus:

a one-unit course, successfully completed, will be awarded 2.5 credits;

a two-unit course, successfully completed, will be awarded 5 credits;

a three-unit course, successfully completed, will be awarded 7.5 credits;

and twenty-four units, successfully completed, will be awarded 60 credits.

N.B.   Enquiries on the award of credits should be addressed to the Registrar, University College Dublin, Belfield, Dublin 4.

Contents

Degrees in the Colleges of Arts, Celtic Studies and Human Sciences

Extract from the Statute of the University

The University may grant the following Degrees to students who, under conditions laid down in the statutes and regulations, have completed approved courses of study, and have passed the prescribed examinations of the University, and fulfilled all other prescribed conditions:

In the College of Arts and Celtic Studies:
Bachelor of Arts (Honours) (BA)
Bachelor of Arts (Honours) (Computer Science)
Bachelor of Music (BMus)

Master of Arts (MA)
Master of Literature (MLitt)
Master of Philosophy (MPhil)

Doctor of Philosophy (PhD)
Doctor of Literature (DLitt)
Doctor of Music (DMus)

Doctor of Celtic Studies (DLittCelt)

In the College of Human Sciences:
Bachelor of Social Science (Honours) (BSocSc)

Master of Economic Science (MEconSc)
Master of Education (MEd)
Master of Library and Information Studies (MLIS)
Master of Psychological Science (MPsychSc)
Master of Social Science (MSocSc)

Doctor of Philosophy (PhD)
Doctor of Literature (DLitt)
Doctor of Economic Science (DEconSc)
Doctor of Psychological Science (DPsychSc)

For details of all Postgraduate Degrees, please see separate booklets

Degree of Bachelor of Arts (Honours) Day Courses

Regulations applying to Students who enter the BA Degree programme in September 2005

UCD Horizons

UCD Horizons is the name given to the new structure for taught degrees at UCD from September 2005. This programme is modular and degree based. It will be more flexible than the traditional degree programmes and gives you more choice in creating the content of your degree. The modular, credit-based system meets international standards, and will make it much easier if you want to study abroad for part of your degree programme. Moreover, it should also allow you more options in terms of the length of time to complete your degree.

A BA degree will be composed of a number of modules, most of which will be within your chosen subject(s) of study. A typical full-time student completing the three-year BA programme will:

- Complete 12 modules per year, each worth 5 credits. Over a three-year period a student will have completed 36 modules at different levels and have obtained 180 credits.

- The modules you take in your first year (stage 1) may be made up as follows:

  o Three Major subjects from the subjects offered in the BA degree programme. You will complete modules totalling 20 credits in each Major subject to give you a total of 60 credits for the stage;

    or

  o Two Major subjects from the subjects offered in the BA degree programme, each Major subject comprising 20 credits. The remaining 20 credits is made up of two Minor subjects of 10 credits, each chosen from the list of BA subjects who offer the option of a Minor;

    or

  o Two Major subjects from the subjects offered in the BA degree programme, each Major subject comprising 20 credits. The remaining 20 credits is made up of one Minor subject of 10 credits chosen from the list of BA subjects offering the option of a Minor and the remaining 10 credits chosen from elective modules available across the University.

  There will be some conditions attaching to subject choice but these will be limited to issues of timetabling, availability of spaces or requirements for prior knowledge.

- Receive a grade for each module completed.

- Progress through the degree programme by continuing to take required courses at higher levels in your selected subject(s) of study, while selecting optional and/or elective courses. The flexible character of your final degree will be reflected in the optional and elective modules that you select.

Regulations applying to Students who entered the BA Degree programme before September 2005

The Colleges of Arts, Celtic Studies and Human Sciences offer day courses, normally of three years' duration, leading to the Degree of Bachelor of Arts (Honours) of the National University of Ireland.

The dates of the academic terms for each year are published in the *Student Information Handbook*. In many Schools in the Colleges of Arts, Celtic Studies and Human Sciences, the duration of courses is expressed as a *semester*, i.e. a twelve-week teaching period, usually from September to January or from January to May.

General Description

Students who have passed the Stage 1 Examination proceed to the Degree of Bachelor of Arts (Honours) by one of the Degree Modes, which are entered at the beginning of Second Year. Eligibility to enter a particular Degree Mode is governed both by the course to which the student has been admitted, the level of attainment in the Stage 1 Examination and by the subject combination selected in Stage 1. Students are normally permitted a maximum of two years in Second Year Arts from the date of entering the course. In exceptional circumstances the Colleges of Arts, Celtic Studies and Human Sciences Programme Office may consider an extension to the two-year rule.

Course Requirements: Definition of the 'Unit'

Day courses, in Second and Third Year, are given or deemed to have a unit value: A one-unit course consists of one lecture/tutorial per week for a twelve week period, or represents an equivalent proportion of the year's work. Courses of two or three units are *pro rata*. In the case of some subjects where courses are not described in unitised form, the year's work is deemed equivalent to a pre-determined number of units. The number of course units which must be accumulated and examined in the subject(s) studied in the Second and Final Years is laid out in the sections describing the Degree Modes.

Examination Requirements

Students proceeding to the Degree of Bachelor of Arts (Honours) by day must pass the examinations listed below:

(a) The Second University Examination in Arts (Honours)† (taken at the end of the Second Year) which must be passed in its entirety before a student may proceed to the Final Year.

The examination is held in the Summer of each year; a repeat examination is held in the Autumn. In the case of Mathematics and Mathematical Physics, there is no Autumn repeat examination at Honours level.

The examination must be passed within two years from the date of entering the Second Year course.

(b)   The Final University Examination for the Degree of Bachelor of Arts (Honours)[†] (taken at the end of the Final Year).

The BA Degree (Honours) Examination is held in the Summer of each year. Honours will be awarded separately in each subject. Honours may only be awarded if the whole examination is passed at one sitting in the Summer examination.

[†]   Introduction of Beneficial Aggregation (i.e. where aggregation operates to the benefit of the student)
Not to apply to the BA (International) Degree
From 2003 the grade of Degree in a subject (when all subjects are passed at one sitting in the summer examinations of Second and Final Year) will be determined by:

Either   aggregation of 30% of the Second Arts <u>Summer</u> examination results with 70% of the Final Year <u>Summer</u> examination results within each subject;

<u>or</u>   100% of the Final Year Summer examination results, whichever is to the benefit of the student.

Stage 1 (First Year) Day Courses

Subject Combinations

The subjects available in Stage 1 (Day) are listed below.

No two subjects may be taken from the same section of the list.

Subjects taught and examined at Honours and Pass levels separately are marked '(H & P)' below.

Section A:	Arabic, Economics, Greek and Roman Civilization, History of Art, Irish Folklore, Linguistics
Section B:	Film Studies, Greek, History, Music[1], Statistics[2], Welsh
Section C:	Early Irish[3], German, Hebrew, Information Studies, Irish Studies, Latin, Logic[4], Mathematical Studies, Mathematics[5] (H), Planning and Environmental Policy[6], Spanish
Section D:	Archaeology, English, Politics
Section E:	Canadian Studies, Irish, Italian, Philosophy, Sociology
Section F:	Celtic Civilization, French, Geography, Mathematical Physics Studies[2] Psychology[7]

Students entering under DN050 (Computer Science) should see the BA (Computer Science) section of this booklet for details.

Notes

1. Special conditions may apply to entry to Music; students should enquire from the School. For students entering from September 2006 Stage 1 Music will be available as an Arts subject only. Students who attain a 2H1 in Music at the end of Stage 1 will be eligible to register for Stage 2 of the BMus programme and to proceed to the BMus Degree. BA Degree students will remain eligible to complete the BMus Degree in the year following the completion of their BA Degree examinations.

2. Students wishing to proceed to Second Year in Mathematical Physics Studies and Statistics must also have passed Stage 1 Mathematical Studies or Mathematics. The combination Statistics and Psychology is only permitted in Stage 1 if Mathematical Studies or Mathematics is taken as the third subject.

3. Students of Early Irish who wish to take Latin will be facilitated by the Classics School.

4. Logic will not be available as a Stage 1 subject in the 2005/2006 session.

5. Students who enter the BA programme in September 2005 and who wish to pursue Honours Mathematics must take all four Level 1 modules in Mathematical Studies at Stage 1. On successful completion of these modules a student will have the option of choosing Honours Mathematics in Stages 2 and 3 subject to consultation with the School of Mathematical Sciences

6. Students taking Geography, Planning and Environmental Policy (20 credits) at Stage 1 must also take 20 credits in Geography (Stage1).

7. For students entering the BA Degree (DN012) from September 2005, progression to Second Year Psychology will not be available. Progression to Second Year Psychology will *only* be available to those who have entered through the CAO denominated entry DN054.

Note:

For regulations concerning entry to Mode I (Single Subject) English, History or Philosophy, see the Mode I entry in this booklet for details.

Mode I: BA (Honours) Single Subject

A specified number of places are available through the denominated entry CAO application system as follows: Economics (20); History (12); Philosophy (8); Psychology (35). A number of places in these subjects, as indicated on the following pages, are also available on the results of the Stage 1 examination for students who have entered through DN012 (omnibus entry).

(N.B. From September 2005, progression to Second Year Mode I Psychology will only be available to those who have entered through the CAO denominated entry DN054).

General Description
Students study for the Degree of BA (Honours) in a single subject.

Admission Requirements
To progress to a Single Honours course, students must have achieved 60 Stage 1 credits of which 20 credits must have been passed in the relevant subject. The precise subject requirements, number of places and criteria for entry to the various subjects in Mode I are laid out on the following pages.

Course Requirements
Students must attend, and be examined in, twenty-four course units (or equivalent) in Second Year, and the same number in the Final Year. Choice of courses is subject to the requirements of the School(s) concerned. Second Year students interested in the BA (International) option should see the BA International section in this booklet for details.

Examination Requirements
The Second Arts Examination (Honours) (twenty-four units or equivalent) must be taken after completion of the appropriate courses. This examination must be passed in its entirety, within two years of entering the Second Year course, before the student may proceed to Final Year courses. The BA Degree (Honours) Examination (twenty-four units or equivalent) is taken at the end of the Final Year.

Awards
The awards on the Second Arts (Honours) and BA (Honours) Examinations in Mode I are: First Class Honours; Second Class Honours, Grade I; Second Class Honours, Grade II; Third Class Honours; Pass; Fail. The result in each year is calculated on the basis of the marks obtained in the twenty-four units (or equivalent) examined. Honours may only be awarded if the whole examination is passed at one sitting in the Summer examination.

Beneficial Aggregation:
(not to apply to the BA (International) Degree)
From 2003 the grade of Degree in a subject (when all subjects are passed at one sitting, in the Summer examinations of Second and Final Year) will be determined by:

either   aggregation of 30% of the Second Arts Summer examination results with 70% of the Final Year Summer examination results within each subject;

or   100% of the Final Year Summer examination results, whichever is to the benefit of the student.

Table of Subjects Available in BA (Honours) Single Subject (Day) and Conditions for Entry

Second And Final Year Subjects	Stage 1 Subjects Required For Entry Note: No two Stage 1 subjects may be taken from the same section of the list of subjects available in Stage 1. (See regulations page 9)
Classical Studies	(a) Greek and Roman Civilization; (b) Any other subject (not including Greek); (c) Any other subject (not including Latin).
Classics	(a) Greek; (b) Latin; (c) Any other subject.
Economics † Limit of 20 places for students entering through DN012 based on Stage 1 examination results 2006	(a) Economics; (b) Any other subject; (c) Any other subject.
English † Limit of 20 places for students entering through DN012 based on Stage 1 examination results 2006	(a) English; (b) One of the following: Economics, French, German, Greek, Greek and Roman Civilization, History, Irish, Italian, Latin, Linguistics, Philosophy, Psychology, Spanish, Welsh; (c) Any other subject including any subject not already chosen from the list in (b).
History † Limit of 10 places for students entering through DN012 based on Stage 1 examination results 2006	(a) History; (b) Any other subject; (c) Any other subject.

Second And Final Year Subjects	Stage 1 Subjects Required For Entry Note: No two Stage 1 subjects may be taken from the same section of the list of subjects available in Stage 1. (See regulations page 9)
Irish	(a) Irish; (b) Early Irish; (c) Any other subject.
Mathematical Physics Studies	(a) Mathematical Physics Studies; (b) Mathematical Studies or Mathematics; (c) Any other subject.
Philosophy † Limit of 8 places for students entering through DN012 based on Stage 1 examination results 2006	(a) Philosophy or Logic; (b) Any other subject; (c) Any other subject.
Psychology Only students who have entered through DN054 will be eligible to proceed to Mode 1 Psychology	(a) Psychology; (b) Any other subject; (c) Any other subject. (The combination Psychology and Statistics is only permitted if Mathematical Studies is taken as the third subject). Repeat Stage 1 Psychology students in 2006 will be required to reach at least **75%** in Psychology to be eligible for one of the places in Mode I Psychology.

† In Mode I Economics, English, History and Philosophy, the places available to students who have entered through DN012 are allocated on the basis of Stage 1 marks in the subject concerned in the year of application, provided applicants have achieved 60 Stage 1 credits of which 20 credits must have been passed in the relevant subject. (Autumn results may be considered if places are still available). No deferral is allowed.

Such students (DN012) wishing to be considered for a place in Single Subject Economics, English, History or Philosophy *must* **contact the School concerned and fill in an application form before 15ᵗʰ February 2006.**

Mode IIA: BA (Honours) Two Associated Subjects

General Description

In Mode IIA, students study for the Degree of BA (Honours) in two subjects; at least one of these subjects studied is not available in Stage 1 (e.g. Irish Folklore) or is a specialisation not available as a *separate* subject in Stage 1 (e.g. Old and Middle English).

Admission Requirements

For admission to Mode IIA, the Stage 1 Examination must have been passed. The precise entry requirements for the different subject pairs in Mode IIA are laid out in the table below.

Table of Subjects Available in Mode IIA (Day) and Conditions for Entry

Second And Final Year Subjects	Stage 1 Subjects Required For Entry Note: No two Stage 1 subjects may be taken from the same section of the list of subjects available in Stage 1. (See regulations page 9)
Early Irish History and Another Subject Early Irish History; One of the following: • Archaeology • Early Irish • Geography • Irish • Latin • Medieval History • Old and Middle English	(a) History; (b) The second subject to be taken in Mode IIA; (for *Old and Middle English*, the requirement is Stage 1 English; for *Medieval History* any Stage 1 subject may be offered); (c) Any other subject.

Irish Folklore and Another Subject Irish Folklore; One of the following: • Archaeology • Early Irish • Early Irish History • English • Geography • History • Irish • Medieval History • Modern Irish History • Welsh	(a) Any subject; (b) The second subject to be taken in Mode IIA; (for *Early Irish History, Medieval History* or *Modern Irish History,* the requirement is Stage 1 History); (c) Any other subject.
Old and Middle English and Another Subject Old and Middle English; One of the following: • Early Irish • Linguistics • Medieval History	(a) English; (b) The second subject to be taken in Mode IIA; (for *Medieval History,* the requirement is Stage 1 History); (c) Any other subject.

Mode III: BA (Honours) Related Subjects

General Description
In Mode III, students study for the Degree of BA (Honours) in a group of closely related subjects.

Admission Requirements
Students must have passed the Stage 1 Examination. The precise entry requirements for the various groups in Mode III are laid out in the table opposite.

Course Requirements
Students must attend, and be examined in, twenty-four course units (or equivalent) in Second Year and the same number in the Final Year. Second Year students interested in the BA (International) option should see the BA (International) section of this booklet for details.

Examination Requirements
The Second Arts (Honours) Examination (twenty-four units or equivalent) must be taken after completion of the appropriate courses. This examination must be passed in its entirety, within two years of entering the Second Year course, before the student may proceed to the Final Year. The BA Degree (Honours) Examination (twenty-four units or equivalent) is taken at the end of the Final Year.

Awards
The awards on the Second Arts (Honours) and BA (Honours) Examinations in Mode III are: First Class Honours; Second Class Honours, Grade I; Second Class Honours, Grade II; Third Class Honours; Pass; Fail. Honours may only be awarded if the whole examination is passed at one sitting in the Summer examination.

Beneficial Aggregation
(not to apply to the BA (International) Degree)

From 2003 the grade of Degree in a subject (when all subjects are passed at one sitting, in the Summer examinations of Second and Final Year) will be determined by:

either   aggregation of 30% of the Second Arts Summer examination results with 70% of the Final Year Summer examination results within each subject;

or   100% of the Final Year Summer examination results, whichever is to the benefit of the student.

Table of Subject Groups in Mode III (Day) and Conditions for Entry

Second And Final Year Subjects	**Stage 1 Subjects Required For Entry** Note: No two Stage 1 subjects may be taken from the same section of the list of subjects available in Stage 1. (See regulations page 9)
Celtic Studies _A._ One of the following as major subject: • Early Irish • Modern Irish • Welsh* And the other two languages as minor subjects. _B._ Early Irish as major subject; two of the following as minor subjects: • Welsh • Early Irish History • Archaeology _C._ Welsh* and Modern Irish or Scottish Gaelic (with Modern Irish). _D._ Irish Folklore as major subject; two of the following as minor subjects: • Modern Irish • Early Irish • Welsh • Archaeology and • Early Irish History.	(a) Modern Irish; (b) Early Irish _or_ Welsh; (c) Early Irish _or_ Welsh _or_ Latin _or_ Greek _or_ French _or_ Archaeology _or_ Celtic Civilization. If students plan to take either Early Irish or Welsh as a major subject, they must have passed that subject in the Stage 1.

---

* Major Welsh includes Breton

Second And Final Year Subjects	Stage 1 Subjects Required For Entry Note: No two Stage 1 subjects may be taken from the same section of the list of subjects available in Stage 1. (See regulations page 9)
Celtic Studies (Contd.) *E.* One of the following as major subject: • Archaeology • Early Irish History • Early Irish Language and Literature • Welsh Two minor subjects: Two subjects from above not chosen as the major subject *or* one of these and Medieval Welsh. If Welsh is chosen as major subject Medieval Welsh may **not** be chosen as a minor subject	(a) Modern Irish *or* Early Irish Language and Literature; (b) Archaeology; (c) History (including Early Irish History) *or* Latin *or* Welsh *or* Celtic Civilization. If either Archaeology *or* Early Irish Language and Literature *or* Welsh is chosen as a major subject, it must be passed in the Stage 1.
Near Eastern Languages Major subject: Hebrew; Two minor subjects: • Aramaic • Hellenistic Greek	(a) The major subject to be offered in the BA; (b) Any other subject; (c) Any other subject.

BA (Honours) (International) Programme

General Description

The BA (Honours) (International) is a four-year programme which incorporates a year's university study abroad as an integral element in the Degree programme. Second Year students may apply to enter the programme and, if accepted, are required to attend approved foreign university courses during the following year.

All arrangements in connection with the BA (Honours) (International) programme are made through the School(s) in which the students are registered. Intending applicants should note that: (a) since only those who can be assigned full-time places in approved foreign universities are accepted, *the number of students who can take part is strictly limited*; and (b) that not all Schools are involved in the programme.

Permission to travel abroad on the BA (Honours) (International) programme is conditional upon (a) written approval of the Head of School of at least one of the Schools in which the student is registered (including details of courses to be followed and UCD equivalence allowed); and (b) the student's passing the Second University Examination (Honours) in Arts in the session in which permission is sought. No deferral is allowed.

Students must retain all documentation obtained abroad for School approval. Final decisions on all aspects of the programme rest with the Head of the UCD School(s) concerned. Subject to approval, students may attend courses in more than one university during the year abroad.

Students in the BA (International) programme must normally take courses to the value of 45 ECTS credits in an approved partner institution under the direction of their Erasmus Co-ordinator in University College Dublin. They must obtain an overall pass in these courses in the academic year that they are abroad in order to continue into the Final Year of the BA (International) Degree. In exceptional circumstances, and only with the prior permission of the relevant Head of School, students may submit an extended essay on their return in fulfilment of some of their credit requirements. Students who fail to acquire the required credits at pass level will not be eligible for the BA (International) Degree but will be permitted to take courses leading to the BA Degree.

Regulation applying to students commencing their year abroad as of September 2002

Students in the BA (International) programme will be required to take appropriate courses during their year abroad deemed by the sending School to be the equivalent of 45 ECTS credits and to achieve an overall pass. At its sole discretion, up to 15 of these credits may be obtained by project work set by the home School.

Admission Procedures

Students (who have been admitted under DN012) intending to apply for entry into the programme are advised to contact the Schools in which they are registered early in their Second Year. Application forms are available from those Schools which are involved in the programme. Completed application forms must be returned to individual Schools by their designated closing date.

A specified number of places are available through the denominated entry CAO application system as follows: French (20); German (20); Spanish (6). A number of places in these subjects are also available on the results of examinations and School appraisal for students who have entered through DN012 (omnibus entry). Details on application procedures are available from individual Schools.

BA (Honours) Computer Science

The BA (Honours) Computer Science Degree is a four-year programme.

General Description

The Degree allows students to combine a variety of Arts subjects with Computer Science. The course has two aims: firstly to give students with a talent for Arts subjects the chance to exercise their abilities in a Computer Science context: secondly to allow students to become fully qualified Computer Scientists within the context of an Arts Degree. From a computing perspective, students should acquire thinking and problem solving skills, fundamental programming skills, a knowledge of the potential of and current limits on information technology, and an appreciation of the notion of computation.

Admissions procedure

Entry to the programme is by designated entry through the CAO application system.

Course syllabus

Stage 1

Students choose Computer Science and two Arts subjects from Groups A, B, C and F below. No two subjects may be taken from the same section of the list.

Section A:	Arabic, Economics, Greek and Roman Civilization, History of Art, Irish Folklore, Linguistics
Section B:	Film Studies, Greek, History, Music[1], Statistics[2], Welsh
Section C:	Early Irish[3], German, Hebrew, Information Studies, Irish Studies, Latin, Logic[4], Mathematical Studies, Mathematics[5] (H), Planning and Environmental Policy[6], Spanish
Section F:	Celtic Civilization, French, Geography, Mathematical Physics Studies[2], Psychology[7]

For subject restrictions 1-7, see Notes for Stage 1 Day subjects (page 9).

Second Year

Students continue with Computer Science (twelve units) and one Arts subject (twelve units) studied in Stage 1 provided the Stage 1 Examination has been passed in three permissible subjects.

Third Year

Students continue with Computer Science (twelve units) and the Arts subject (twelve units) studied in Second Year provided the Second Arts Examination has been passed in the two subjects. The Arts subject is completed in this year and a grade awarded for it.

N.B. Provided students have passed the Third Arts Examination and attained at least 45% in Computer Science, they will then proceed to Fourth Year. Where students pass both subjects in Third Year with a mark of under 45% in Computer Science, students will be awarded a BA Degree with a pass in Computer Science.

Fourth Year

This course comprises Computer Science (sixteen units) and a major BA thesis (eight units).

Examination and Course Requirements

Stage 1:	As for Stage 1
Second and Subsequent Years:	As for BA Mode II

N.B. Beneficial aggregation does <u>not</u> apply to the subject Computer Science.

BA (Honours) Computer Science International

The BA Computer Science (International) is a five-year programme, which incorporates a year's university study abroad as an integral element of the Degree programme. All arrangements in connection with the BA Computer Science International are made through the School(s) in which a student is registered.

Please see the 'BA International' section of this booklet for further information on the scheme and details of the application procedure.

Students will be subject to all other regulations governing the BA Computer Science Degree Programme.

Syllabus of Courses

Arabic

The course is intended to prepare the student to tackle a variety of Classical Arabic texts, as well as material in Modern Standard Arabic, which is the written language of the contemporary Arabic-speaking world. The student is also introduced to the principles and early history of Islam. No prior knowledge of the language is required.

Second Year (ARAB 2000)

Arabic-English Translation   (3 units)   **ARAB 2001**
Translation of unseen passages from Arabic into English.

English-Arabic Translation   (3 units)   **ARAB 2002**
Translation of unseen passages from English into Arabic.

Arabic Religious and Secular Texts   (3 units)   **ARAB 2003**
Prepared translation and study of selected *surahs* of the Koran, and sections of the *hadith* of the Prophet Muhammad. Prepared translation and study of excerpts from medieval and later Arabic topographical works.

Modern Arabic Literature   (3 units)   **ARAB 2004**
Prepared translation and discussion of a variety of modern Arabic writers and their work.

Note for Second Year Students:
There will be an Arabic conversation class.

Final Year   (ARAB 3000)

(Deemed equivalent to twelve units)

Arabic-English Translation   (3 units)   **ARAB 3001**
Translation of unseen passages from Arabic into English.

English-Arabic Translation   (3 units)   **ARAB 3002**
Translation of unseen passages from English into Arabic.

Islamic History and Aspects of Arabic Historiography (3 units)   **ARAB 3003**
Study of the history of principally the Arabic-speaking Near and Middle East, from the rise of Islam until the eve of the Crusades, and how it was recorded by a variety of historians writing in Arabic. Prepared translation and study of primary sources.

Modern Arabic Literature   **(3 units)**   **ARAB 3004**

Prepared translation and discussion of a variety of modern Arabic writers and their work.

Note for Final Year Students:

There will be an Arabic conversation class.

Aramaic
(Minor Subject in Mode III Near Eastern Languages)

Second Year (ARAM 2000)

Mode III

Introduction to Syriac Grammar.   **(2 units)**   **ARAM 2001**

Building on a knowledge of Hebrew, this course studies Syriac grammar and scripts, using J. F. Healey, *First Steps in Syriac*

Introduction to Biblical Aramaic.   **(2 units)**   **ARAM 2002**

Selected passages from Aramaic, using F. Rosenthal's *A Grammar of Biblical Aramaic*.

Aramaic and Syriac Texts   **(1 unit)**   **ARAM 2003**

Selections from Brockelmann's *Chrestomathie*, and F. Rosenthal (ed.), *An Aramaic Handbook*.

History of the Aramaeans.   **(1 unit)**   **ARAM 2004**

Final Year   (ARAM 3000)

Mode III

Aramaic and Syriac Texts   **(2 units)**   **ARAM 3001**

Selections from Brockelmann's *Chrestomathie*, F. Rosenthal (ed.), *An Aramaic Handbook*, and J. Gibson, Syrian Semitic Inscriptions, Vol. 2.

Unseen Aramaic and Syriac Texts   **(2 units)**   **ARAM 3002**

Practice in reading and translation of unseen passages

History of Aramaic Literature   **(2 units)**   **ARAM 3003**

History of the Targums and Syriac literature.

Archaeology

Second Year (ARCH 2000)

(Deemed equivalent to twelve units)

This comprises ten twelve-lecture courses and one twenty-four-lecture course. The Irish and British material is treated in greater depth, corresponding developments elsewhere in Europe are addressed more specifically and students are introduced to relevant debates about the evidence and its interpretation. Other features include a major course on the theory and philosophy of Archaeology, a course on scientific techniques in Archaeology and a course on ancient craftsmanship in various materials. Reading lists for the courses will be provided. Up to 25% of the overall end-of-year mark will be awarded for continuously assessed coursework (including five essays). These will be submitted on a regular basis throughout the year.

ARCH 2006	From Hunter-Gatherers to First Farmers.
ARCH 2007	Contemporary Problems in the Interpretation of the Neolithic.
ARCH 2008	The Emergence of Hierarchy: the Bronze Age of Northwestern and Central Europe.
ARCH 2009	The Irish Iron Age: Problems of Celticity.
ARCH 2010	Early Medieval Landscape, Settlement and Society in Ireland.
ARCH 2011	Early Medieval Art.
ARCH 2012	Viking-Age Ireland, Later Anglo-Saxon England, and Carolingian Europe.
ARCH 2013	The Archaeology of Feudal Society: Ireland and Europe AD 1100-1500.
ARCH 2014	Methods and Techniques in Landscape Archaeology.
ARCH 2015	A Practical Introduction to Materials in Archaeology.
ARCH 2016	Theory and Philosophy of Archaeology (24 Lectures).

Final Year   (ARCH 3000)

(Deemed equivalent to twelve units)

The course will consist of ten core courses (each course counting as one unit) and two optional courses (each counting as one unit) chosen from a range of at least five options. The courses will be thematic and will develop concepts and issues introduced in the First and Second Year programmes.

The selection of courses available in any academic year will depend on staffing and logistical resources. Minimum and maximum limits will be placed on numbers attending optional courses. Courses additional to the list below may also be offered. The list of courses on offer in any academic year will be available immediately before the beginning of the academic year in September.

A one-week field course will be offered as an option in early September *prior* to the commencement of the lecture programme. Students interested in this option should enquire in the School for details.

Up to 25% of the overall end-of-year mark will be awarded for continuously assessed coursework (including four extended essays). These will be submitted on a regular basis throughout the year.

Courses to be offered will be selected from the following:

C: Core Course; O: Optional Course

ARCH 3001	The Mesolithic/Neolithic Transition (O)
ARCH 3002	Stone Tools in a Social Context (O)
ARCH 3003	Regionality in the Neolithic of Ireland and Britain (O)
ARCH 3004	Settlement and Landscape (C)
ARCH 3005	Ritual and Ideology (O)
ARCH 3006	Funerary Archaeology (C)
ARCH 3007	Material Culture (C)
ARCH 3008	Art in Prehistory (O)
ARCH 3009	Practice and Theory in Irish Archaeology (C)
ARCH 3010	Wetland Archaeology (O)
ARCH 3011	Religion and Ritual in Celtic Europe (O)
ARCH 3012	The Celts at War: History, Archaeology and Myth (C)
ARCH 3013	Ireland's Golden Age (O)
ARCH 3014	People of the Isles: Ireland and Britain, AD 400-1000 (C)
ARCH 3015	The Archaeology of Architecture (O)
ARCH 3016	Sculptors and Stonemasons in the First Christian Millennium (O)
ARCH 3017	The Viking World (C)
ARCH 3018	Field Courses (O)
ARCH 3019	European Lake Dwellings (C)
ARCH 3020	Art Interaction in Early Christian Europe (C)

ARCH 3021   Answers from the Grave (C)
ARCH 3022   Histories in Stone: Medieval Europe (O)
ARCH 3023   The Archaeology of Race and Ethnicity (O)
ARCH 3024   Understanding Mesolithic/Neolithic (O)
ARCH 3025   A New Archaeology of Castles (O)
ARCH 3026   Artistic Interactions in the First Millennium AD (C)
ARCH 3027   From the Tree to the Artefact – Wood in Archaeology (O)
ARCH 3028   Making Sense of the Mesolithic (O)
ARCH 3029   The Archaeology of Human and Animal Bone (O)
ARCH 3030   Historical Archaeology and the Making of Modern Irish Identity (O)
ARCH 3031   Sentient Stones: Interpreting Lithics (O)
ARCH 3032   The Archaeology and History of Medieval Dublin (O)
ARCH 3033   Histories in Stone from Early Medieval Europe (O)
ARCH 3034   Encountering Complex Pasts: Perspectives on Canadian Archaeology (O)
ARCH 3035   An Introduction to Conservation (O)

Notes for Final Year Students

Questions on the BA papers will also require knowledge of the framework and general principles encountered in Second Year

The Celtic Studies course in Archaeology and Early Irish History (Mode III) will consist of approximately forty lectures in each subject spread over a two-year period. These will cover the Celtic Iron Age (Ireland, Britain and the Continent) and early Christian Ireland. For the course in Early Irish History, consult the School.

The Celtic Studies course in Archaeology as a full minor subject (Mode III) will cover the Archaeology of Ireland and Britain and the continental background from the early Iron Age to the Vikings: monuments and settlement; art and its context.

Canadian Studies

Please see the UCD website for details of this new BA subject:
http://www.ucd.ie/horizons/programmes/arts.html.

Celtic Civilization

Please see the UCD website for details of this BA subject:
http://www.ucd.ie/horizons/programmes/arts.html.

Classical Studies

Second Year (CS 2100)

(Deemed equivalent to twenty-four units)

Greek History: The Rise of Macedon. CS 2001

Greek Art and Archaeology: The Archaeology of Greek Society CS 2002

This course builds on the Stage 1 Greek Archaeology course. It covers the same periods and material, but they are approached as a method for understanding Greek society. Themes covered include: mythology and art as propaganda, sport and welfare, burial customs, the symposium and prostitution, gender relations. Students are thus introduced to Archaeology as a method for social interpretation and understanding.

Greek Philosophy: Plato, *Phaedo* CS 2003

The prescribed text for this course is Plato's *Phaedo*. In this dialogue Plato portrays Socrates at his death arguing for the immortality of the soul. Lectures deal with the personal and philosophical presentation of Socrates, the arguments for the soul's immortality, with special reference to Plato's Forms, and the myth near the end.

Greek Literature CS 2004

Greek Tragedy: Aeschylus, *Prometheus Bound and Other Plays*; Sophocles, *Electra and Other Plays*; Euripides, *Medea and Other Plays* (all in Penguin Classics).

The prescribed texts for this course are Aeschylus', *The Persians* and *Prometheus Bound*, Sophocles', *Ajax* and *Women of Trachis*; Euripides', *Medea, Hecabe* and *Heracles*. The lectures will deal with the social and theatrical context of Greek Tragedy, and with the structure and themes of the seven plays. The course focuses in particular on the justice of the gods, on the nature of heroism (both male and female), and on the problem of revenge.

Roman History: The Early Roman Empire CS 2005

This course covers the history of the Early Roman Empire, from the death of Julius Caesar in 44 BC to the end of the reign of Hadrian in AD 138. It explores the fascinating political history of the early emperors, and uses a range of ancient sources, especially Suetonius' *Lives of the Caesars*, to examine various historical themes including: the army, the imperial aristocracy, wealth and social status, the Roman arena.

Roman Sculpture CS 2006

This course focuses on Roman sculpture in the Late Republic and Early Empire from the perspective of ancient sculpture collections and collection practices. It will examine the ancient Roman art market and the display of statues in the context of the Roman villa and prominent public spaces in the city of Rome. The course also addresses questions of style, iconography, and the relationship of Roman to Greek art.

Roman Literature: Virgil's *Aeneid* CS 2007

When Virgil began writing his epic poem *The Aeneid*, Augustus was establishing his imperial rule. Virgil's contemporaries, and generations to come, greeted *The Aeneid* as a celebration of Augustan Rome; modern readers tend to view it as a powerful denunciation of war and imperialism. The lectures explore the text's engagement with both political ideology and the literary tradition.

Ancient Society: Philosophy in the Hellenistic and Roman World   CS 2008

Stoics, Epicureans and Platonists were the philosophers who had the greatest direct influence on the everyday life of Greeks and Romans. This course examines their different approaches to moral virtue, adversity, death and our relationship to the divine, as far as possible through the words of the philosophers themselves.

Either

Greek Language   CS 2009

The course is designed for beginners and aims to offer a comprehensive knowledge and understanding of the Greek language. Students will have four classes per week throughout the year. By the end of the year students should be able to read Greek prose and verse texts. The textbook is *Reading Greek,* Cambridge University Press.

or

Latin Language   CS 2010

The course is designed for beginners and aims to offer a comprehensive knowledge and understanding of the Latin language. Students will have four classes per week throughout the year. By the end of the year students should be able to read Latin prose and verse texts. The textbook is *Wheelock's Latin*.

Students will be expected to attend tutorials and to maintain a satisfactory standard in essay work connected with them.

Final Year (CS 3100)

(Deemed equivalent to twenty-four units)

Subject to certain restrictions in choice, students will be required to choose four from the following list of courses. Subject to approval by the Head of School, a student may substitute an extended essay (CS 3026) of approximately 12,000 words for one of these courses.

CS 3001	The Archaeology of Minoan Crete
CS 3003	The Oedipus Myth
CS 3016	Spartacus and the Slave Wars
CS 3022	Epic after Virgil: Ovid and Lucan
CS 3023	Plato's 'Republic'
CS 3024	Power, Politics and Parody in Ancient Rome
CS 3025	Family Life in Ancient Greece
CS 3030	The City of Athens
CS 3031	Roman Wall painting

II Either

Greek   CS 3010

A. Greek Literature
(each of the following courses is taught by weekly reading classes throughout one semester):

(a) Socrates on trial and in prison
In Plato's *Apology*, Socrates defends his philosophical life and then responds to the verdict and the sentence. In Plato's *Crito*, Socrates tells his oldest friend that an escape would defy Athenian law and Socratic morality. Students will study both texts for this course.

(b) Euripides, *Medea*

(c) Archaic Greek Epic: Homer's *Iliad*
Homer's *Iliad* stands at the apex of the Western literary tradition, as well as marking the point of progression from oral to written poetic forms. In this course we will read *Iliad 9* (the embassy to Achilles) with an eye on both 'oral' and 'literate' poetics: familiarising ourselves with the formulaic style which is characteristic of the oral tradition, as well as considering the literary purposes to which the epic language is put.

In addition to these courses students will read Lysias I.

B. Translation skills
The aim of this course is to help students to become proficient in translating Greek. The course begins with a revision of basic Greek grammar; two classes per week throughout both semesters are devoted to the translation and discussion of Greek prose/verse passages. In the Third Year examination there will be two prose and two verse passages for translation into English. The verse will be taken from the work of Euripides; one prose passage will be taken from either Xenophon's or Arrian's *Anabasis*, the other from Lysias.

Or

Latin   **CS 3011**
A. Latin Literature: from Republic to Empire
(each of the following courses is taught by weekly reading classes throughout one semester):

(a) Introduction to Augustan Poetry
The course aims to explore the language and the poetic technique of the most representative writer of Roman epic poetry: Virgil, *Aeneid 8* (the future site of Rome) will form the core of the course. In addition students will read a selection of Horace's *Odes* from *Wheelock*.

(b) Poetry of Passion
Catullus, a minor Roman nobleman of the first century BC, rejected a life of political service for the life of leisure and poetry. His works provide the first example in Latin literature of the personal love poem. The course text is *Catullus: the Shorter Poems* (ed. Godwin, Aris & Phillips). In addition students will read selections from Martial taken from *Wheelock's Latin*.

(c) Foundations of Rome: Livy and Augustus
Livy Book I (ed. Goold & Whiteley, BCP). In addition students will read the *Res Gestae Divi Augusti*.

B. Translation skills
The aim of this course is to help students to become proficient in translating Latin. The course begins with a revision of basic Latin grammar; two classes per week throughout

both semesters are devoted to the translation and discussion of Latin prose/verse passages.

General Notes:
- Details of courses may have to be altered at short notice because books are not available or for other urgent reasons.
- Students will be expected to maintain a satisfactory standard in essay and language work connected with their courses.

Classics

Second Year (CLAS 2100)

and

Final Year (CLAS 3100)

For their Second and Final Years students follow the courses prescribed for the subjects Latin and Greek.

Computer Science

Available only to students who entered through DN050

Second Year (COMP 2600)

Data Structures & Algorithms 1   **COMP 2601**
Object Oriented design, Data abstractions, lists, queues, stacks, tress, graphs and operations.

Data Structures & Algorithms II   **COMP 2609**
Trees; graphs; pattern matching; sorting; specification techniques; complexity analysis; application.

Software Engineering Project   **COMP 2610**
A project in software engineering building a complete system based on the application of analysis, design and implementation techniques.

Formal Foundations   **COMP 2607**
This course introduces students to the logical fundamentals underlying proof of correctness (prepositional and predicate logic, proof techniques) and to the concept of a finite state machine, a restricted computational model used in many application domains. The course thus prepares students for more in-depth treatment of program verification and computational modelling introduced in more advanced courses later in the degree programme. This course is very practical in nature and students will be required to apply the techniques they have learned to a particular set of problems.

Databases & Information Systems   COMP 2606

Types of information system; database organisation; introduction to relational, hierarchical and network data models; data definition and manipulation languages; information retrieval systems; retrieval strategies; intelligent knowledge based systems.

Unix Operating System   COMP 2608

Introduction to UNIX Operating System, Unix File System, Unix Shell, Unix Tools, Unix Scripts.

Mathematical Foundations   MATH 2007

Language and mathematics, logic and truth tables, proof and counter-example, sets, relations and functions, binary operations, semigroups, monoids and groups, graphs and trees.

Third Year (COMP 3600)

Core units are marked with the letter **C**. Students must include the three core units as stated and three of the optional units in agreement with the School (i.e. a total of six units). Details of the optional units may be obtained from the relevant Schools.

Students are reminded that choice of third year options may constrain fourth year options available to them. Students must register their units with the School at the start of the academic year.

COMP 3617 Foundations of Computing   C
COMP 3611 Object-Oriented Programming   C
COMP 3619 Software Engineering Project   C

Students choose three of the following optional units as recommended by the School

COMP 3606 Introduction to Artificial Intelligence
COMP 3607 Program Design and Verification
COMP 3616 Networks and Internet Systems
COMP 3618 Multimedia Systems
COMP 3620 Principles of Programming Languages
COMP 3621 Introductory Computer Graphics

Core Courses

Foundations of Computing   COMP 3617

Mathematical notation and terminology; finite automata and regular languages; definitions and properties, regular expressions; universal models and computability theory; Turing machines, primitive recursive functions; complexity of algorithms: efficiency of algorithms, complexity classes, complexity analysis in practice.

Object-Oriented Programming   COMP 3611

Fundamental object-oriented concepts: classes, objects, messages, encapsulation, inheritance, polymorphism, dynamic binding; elementary object-oriented design. Quality issues in object-oriented programs. Practical programming in an object-oriented language, for example in C++.

Software Engineering Project   COMP 3619

A group project in software engineering building a complete system based on the application of analysis, design and implementation techniques.

Optional Courses

Introduction to Artificial Intelligence   COMP 3606

Intelligent problem solving, knowledge representation, search algorithms, learning, planning, intelligent re-use and experience-based reasoning, applications of AI. *(Prerequisite for COMP 4617, COMP 4618 and COMP 4619)*.

Program Design & Verification I   COMP 3607

Propositional and predicate calculus; theorem proving; the correctness of programs; WP-calculus; derivation of loop programs; efficiency considerations; strengthening invariants.

Networks & Internet Systems   COMP 3616

Network types, functions, topologies, transmission, switching, routing, management, reference models, architectures, protocols and standards; network user applications; flow and congestion control strategies; design and implementation considerations; use in internet systems.

Interactive Multimedia and the Web   COMP 3618

Introduction to the web, the basic principles of web-page development and design, HTML, XHTML, javascript, graphic formats, cascading style sheets, typography, WAP and WML, future trends, interactive web-based systems.

Principles of Programming Languages   COMP 3620

This course introduces the principles underlying programming languages, with an emphasis on how these ideas relate to practical software engineering challenges. Specific topics covered include variable scoping, static and dynamic type checking, imperative programming, functional programming, and logic programming.

Introductory Computer Graphics   COMP 3621

Physics and biology of vision; mathematical foundations of computer graphics; geometric modelling of the world; geometric transformations; perspective and orthographic projections; models of computer rendering; surface modelling; animation; lighting, colour and textures; clipping, culling and compositing; performance optimization; modelling natural phenomena. The practical component will involve hands-on experience with a modern graphics library such as Open GL..

Prerequisite: MATH 2202 (linear algebra) or consent of the lecturer

Final Year (COMP 4600)

Students are required to take a total of eight units. Not all of the following units will be offered in a given year and certain restrictions may also apply. Students who have not taken the stated prerequisite courses should contact the lecturer of the course before

selecting courses. Students are also required to undertake a significant project, details of which will be provided by the School.

Advanced Information Systems   COMP 4602

Databases; recovery; concurrency; security; integrity; distributed databases; extended relational data model; object oriented data model.

Computability   COMP 4606

Effective procedures; the spectrum of computability, from simple problems to undecidable ones; what is and is not computable; models of computability; Turing machines, partial recursive functions; Markov algorithms; what is and is not tractable; complexity classes, P, NP, co-NP and NPC; coping with NCP problems; problem restriction, approximation algorithms.

Advanced Computer Graphics   COMP 4604

Advanced topics in computer graphics, which may include: GPU programming: shader languages; modelling natural phenomena; inverse kinematics; collision detection; frame-rate optimisation; real-time rendering for games; scientific, medical and information visualization; geometric optimization; level-of-detail rendering; bi-directional reflectance distribution functions (BRDFs); environment mapping; bump mapping; subdivision surfaces; higher-order surface modelling. Exact topics will vary from year to year at the discretion of the lecturer, and course may be taught in the form of seminars, in which case students will be expected to research and present recent papers on graphics techniques. The practical component of this course will involve a significant amount of programming, which will normally require a good working knowledge of C and Open GI.

Introduction to Digital Image Processing
and Linear System Theory   COMP 4605

Digital Image Processing System; Human Vision System; Image Representation; Histogram and algebraic operations; Linear system theory; Convolution; Image transforms (DFT, wavelets); Filter Design; Colour Image Processing; Segmentation; Applications: - Loss less Compression; - Still image compression standards; - Digital image watermarking; - Video Coding and Compression Standards. *Prerequisite: see lecturer*

Systems and Specification   COMP 4607

The nature of systems and basic concepts of systems theory; types of systems and their characteristic properties; formal description of systems; needs and uses; principles and practice of system specification; examples and case studies.

Object-Oriented Design   COMP 4608

Object-oriented methods in the software development cycle; practical design techniques using e.g. Unified Modelling Language technique; alternative approaches to object-oriented design; frameworks and design patterns.

Design Patterns   COMP 4609

Introduction to Patterns. Use of patterns in the design process. Documentation of new patterns. Creational patterns. Structural patterns. Behavioural patterns. Introduction to

Frameworks. Data-driven and architecture-driven approaches. Synergy between patterns and frameworks. Case Studies.

Prerequisite: COMP 3611

Concurrent Programming   COMP 4610

Nature of concurrent programming; shared memory; message passing; interference; synchronisation; mutual exclusion; semaphores; deadlock; fairness; high level constructs for concurrency; communication sequential processes; applications to operating systems; formal verification.

Formal Specifications   COMP 4611

Need for formal specifications; specification methods e.g. VDM, algebraic specifications; techniques for specifying complex systems; developing systems for specifications; case studies.

Advanced Operating Systems   COMP 4612

Language mechanisms for concurrency. Security and Protection – formal models (access matrix, BLP, lattice, take grant models). Scheduling Algorithms. Distributed Operating Systems – design and implementation, Synchronisation in Distributed OS, Distributed Process Scheduling, Distributed Concurrency control (deadlock and recovery), Distributed File Systems, Distributed Shared Memory, Distributed Computer Security. Case Studies: CHORUS, MACH, AMOEBA.

Language Engineering   COMP 4613

Fundamentals of natural language processing; formal models and corpus-based methods in speech and language; resources, standards and evaluation methodology; applications of human language technology.

Distributed Systems   COMP 4614

Distributed systems processing and interconnection architectural/reference models and concepts; open and closed systems; distributed operating system kernels, decomposition and consequences of distribution; security and management of distributed systems; transparency, remote operations, co-ordination replication, shared transactions, concurrency control, recovery and fault tolerance.

Prerequisite: COMP 3616

Exploring Computer Science   COMP 4615

Special topics related to current research and state of art applications not covered in other units.

Foundations of Artificial Intelligence   COMP 4617

The importance of representation, First Order Logic, Predicate Calculus, Normalised FOPL forms, Skolemisation, Conversion to Clausal Form, Resolution, Logic Programming, Prolog, Extra Logical features of Prolog, Semantic Networks, Frames, The Frame Problem.

Prerequisite: COMP 3606

Connectionist Computing   COMP 4618

What is connectionism? Basics neurobiology: neurons, synapses. Simple models of neurons. Hebbian learning, Rosenblatt's perceptron. Minski and Papert's criticism of connectionism. Linear associators. Hopfield networks. Boltzmann machines. Learning tasks. Supervised learning: PAC learning, shattering, VC dimension, Multi-layer perceptrons (MLP): gradient descent, backpropagation; expressive power of MLP; sample applications of MLP; the invariance problem; countering overfitting; other learning techniques. Reinforcement learning: TD learning and backgammon. Unsupervised learning: self-supervised backpropagation, principal component analysis and clustering. Plausibility, probability and Bayes' theorem: ML and MAP. ML for MLP, Bayesian networks: inserting and updating evidence; junction tree algorithm. Learning in Bayesian networks. Bayesian network/Neural network hybrids. Recurrent and recursive neural networks. Neural networks for Directed Acyclic Graphs. *Prerequisite: COMP 3606*

Multi-Agent Systems (MAS)   COMP 4619

Definition of Distributed Artificial Intelligence (DAI). Motivations for MAS. Strong versus weak notions of agency. Intentional agent systems. Agent communication. Speech act theory. Collaboration, planning, belief desire intention (BDI) architectures. Agent oriented design, agent oriented programming and languages (Agent0, Agentalk), Multi-agent systems prototyping environment, industrial and commercial applications.

Prerequisite: COMP 3606

Spatial Information Systems   COMP 4625

Databases issues in information systems storing and handling spatial data: representation and manipulation of spatial data; models; relations; indexing methods for spatial data; geometric problems and algorithms; query processing in spatial databases; geographic applications; emerging research directions.

Prerequisite: COMP 2606

Knowledge Based Computation   COMP 4626

Knowledge-based methods for artificial intelligence systems. Knowledge representation, organisation, application and maintenance. Principles of memory organisation, indexing and retrieval. Memory-based, analogical and case-based reasoning. Applications to understanding, explanation, planning and advisory systems.

Prerequisite: COMP 3606

Program Design & Verification II   COMP 4627

Calculating programs; advanced derivational techniques; refinement calculus; reifying abstract data types; the use of simple algebras in program construction.

Prerequisite: COMP 3607

Machine Learning   COMP 4628

This unit introduces students to the fundamental concepts of machine learning, and introduces students to the practical skills needed to develop learning systems. Specific topics include a variety of supervised learning techniques (decision-tree learning, the naïve Bayes classifier, nearest neighbor algorithms), semi-supervised approaches (EM, co-

training), unsupervised techniques (association rule mining, clustering) and theoretical analysis of learning algorithms (the PAC model).

Prerequisite: COMP 3606

Artificial Intelligence for Games and Puzzles   COMP 4629

This unit will cover a number of "mind games", some of which involve an element of chance (such as poker, backgammon) and some do not (such as chess, go), which computers can play as opponents to human users. It will also to a lesser extent cover some puzzles which either computers or humans might try to solve (such as solitaire, eternity). The course is about the Artificial Intelligence aspects of game play and puzzle solving; it is not concerned at all with the kinds of games where fast or accurate user reactions are required, or where high-performance graphics and sound are judged highly important. The main issues to be addressed include: techniques for representing positions in games and puzzles; techniques for reasoning about the effects of moves and hence choosing between them (alpha-beta and other game-tree search techniques); enhancements to such techniques (transposition tables, various heuristics); handling uncertainty in games with a chance element; machine-learning methods for improving the skill level of computer players.

Economics

Second Year (ECON 2000 – MODE II)
(ECON 2100 – MODE I)

Macroeconomics (2)   ECON 2001
Intermediate level course in Macroeconomics.

Microeconomics (2)   ECON 2002
Intermediate level course in Microeconomics.

History of Economic Thought (2)   ECON 2005
The development of economic theory over the years.

Statistics/Econometrics (2)   ECON 2006
Introduction to statistics as applied to the estimation of economic models.

Economic History (2)   ECON 2010
Introduction to the main topics in Irish and Western economic history.

The Irish Economy (2)   ECON 2011
Study of the Irish economy, its development and recent economic history.

Quantitative Techniques (2)   ECON 2012
Introduction to the use of mathematical techniques in Economics.

Labour Economics (2)   ECON 2017

The economics of investment in human capital. Labour supply, employment, unemployment and wage rigidity.

Environmental Economics (2)   ECON 2025

Externalities and the environment; optimal policies to combat pollution; cost-benefit analysis of resource-based projects.

Managerial Accounting (2)   ECON 2028

Introduction to principles of managerial accounting and financial control.

Tutorials (2)   ECON 2030

Weekly tutorial on general aspects of theoretical and applied economics.

Applied Microeconomics (2)   ECON 2031

Study of the determinants of market structure and their implications for resource allocation.

The list of optional subjects may vary from year to year.

Schedule of Courses for Second Arts Mode I and Other Modes

		Mode I	Other Modes
ECON 2001	Macroeconomics	R	R
ECON 2002	Microeconomics	R	R
ECON 2005	History of Economic Thought	O	O
ECON 2006	Statistics/Econometrics	R	R
ECON 2010	Economic History	O	O
ECON 2011	The Irish Economy	R	O
ECON 2012	Quantitative Techniques	R	R
ECON 2017	Labour Economics	O	O
ECON 2025	Environmental Economics	O	O
ECON 2028	Managerial Accounting	O	*
ECON 2030	Tutorials	R	R
ECON 2031	Applied Economics	O	O

R = Required Course; O = Option Course; * Not an option for 'Other Modes'

Notes for Second Year Students

- Mode I students must do eleven courses (six required and five options) and attend tutorials.
- Other students must take <u>four</u> required courses, <u>one</u> option course and must attend weekly tutorials (ECON 2030).

<div align="right">

Final Year (ECON 3000 – Mode II)
(ECON 3100 – Mode I)

</div>

Macroeconomics (2)   ECON 3001
Macroeconomic theory; growth inflation and unemployment, fiscal, monetary and exchange-rate policy.

Microeconomics (2)   ECON 3002
Applications of price theory to contemporary problems; introduction to welfare economics and general equilibrium.

Economic Theory I: Macroeconomics (4)
(Mode I students only)   ECON 3003
Macroeconomic theory; growth inflation and unemployment, fiscal, monetary and exchange-rate policy.

Economic Theory II: Microeconomics (4)
(Mode I students only)   ECON 3004
Applications of price theory to contemporary problems; introduction to welfare economics and general equilibrium.

Econometrics I (2)   ECON 3006
Estimation and inference in the general

 linear model; departures from Classical assumptions; simultaneous equation systems.

Transport Economics (2)   ECON 3009
Applied economic analysis of (i) the provision of transport infrastructure; (ii) transport providers; and (iii) transport users, the role and influence of government on the transport sector.

Economic History (2)   ECON 3010
Issues in Irish and European economic history.

Quantitative Techniques (2)   ECON 3012
Classical optimisation with and without constraints; linear and non-linear programming; economic applications.

Finance (2)   ECON 3014
Supply and demand for money; the optimal quantity of money; monetary policy.

Health Economics (2)   ECON 3018
Demand for health; payment systems for doctors; casemix analysis; health insurance; health and labour market outcomes.

Econometrics II (2)   **ECON 3019**
Theoretical aspects of the linear model and its associated problems; interrelation to simultaneous equations models.

Industrial Organisation (2)   **ECON 3020**
The analysis of modern industry, particularly the competitive and growth strategies of firms under uncertainty; the functioning of markets.

Introduction to Game Theory (2)   **ECON 3021**
Introduction to the theory of games with applications to finance, auctions and industrial organisation.

International Economics (2)   **ECON 3023**
International trade theory; balance of payments adjustment.

Economic Development (2)   **ECON 3024**
Application of economic theory to the study of the problems facing the less developed countries.

Public Sector Economics (2)   **ECON 3029**
Demand and supply for public goods; criteria for public intervention; inequality and poverty.

Tutorials (2)   **ECON 3030**
Weekly tutorial on general aspects of theoretical and applied economics.

Labour Economics (2)   **ECON 3033**
Microeconomic models of unemployment and evidence for OECD countries, human capital, labour supply.

The European Economy (2)   **ECON 3034**
The economic rationale for European integration, focussing on the single market and the Euro.

Provisional Schedule of Courses for BA Degree

Notes for Final Year Students:

ECON 3100   Mode I
Mode I students must:
(a) Take the following <u>five</u> required courses:
    ECON 3003 *Economic Theory I*
    ECON 3004 *Economic Theory II*
    ECON 3006 *Econometrics I*
    ECON 3019 *Econometrics II*
    ECON 3034 *The European Economy*
(b) Attend tutorials (ECON 3030)

(c) Take four options from the list of Final Year courses excluding ECON 3001 *Macroeconomics* and ECON 3002 *Microeconomics*.

ECON 3000   Mode II

Mode II students must:

(a) Take the following <u>two</u> required courses:

ECON 3001 *Macroeconomics*

ECON 3002 *Microeconomics*

(b) Attend tutorials (ECON 3030)

(c) Take three options from the list of Final Year courses excluding ECON 3003 *Economic Theory I* and ECON 3004 *Economic Theory II*

English

Second Year (ENG 2000 – Mode II)
(ENG 2100 – Mode I)

Deemed Equivalent to 12 units

Semester One

Students will take one of the following core modules:
Medieval Literature A **or** Medieval Literature B

Semester Two

Students will take one of the following core modules:
Irish Literature **or** Twentieth-century Drama

Core modules will be taught through lectures and seminars.

In addition students will take two seminars, one in each semester. Topics may include J.M. Synge, Patrick Kavanagh, Irish Gothic Fiction, Medieval Mystery Plays, Robin Hood and Other Outlaws, Emily Dickinson and her Critics, American Literature Between the Wars, Versions of Comedy, Shakespeare, English Language.

<div align="right">

Final Year (ENG 3000 – Mode II)
(ENG 3100 – Mode I)

</div>

Deemed Equivalent to 12 units

Semester One

Students will take one of the following core modules:
American Literature **or** Nineteenth-century Literature

Semester Two

Students will take one of the following core modules:
Renaissance Literature **or** Eighteenth-century Literature

In addition students will take one seminar. Topics may include Contemporary English Fiction, Canadian Fiction in English, Joyce's *Ulysses*, The Drama of Brian Friel, Magic and Miracles in Anglo-Saxon Written Sources, Late Medieval Drama, Shakespearean Tragedy, The representation of the Literary Woman in the 19th century, Modern American Poetry.

Old and Middle English

<div align="right">

Second Year

</div>

Mode I English courses are described under **English.** For details of courses for Mode IIA Old and Middle English, contact the School.

<div align="right">

Final Year

</div>

Mode I English courses are described under **English.** For details of courses for Mode IIA Old and Middle English, contact the School.

Film Studies

Please see the UCD website for details of this new BA subject:
http://www.ucd.ie/horizons/programmes/arts.html.

French

Note: Day students of French are normally required to spend a total period of at least three months in a French-speaking country in the course of their undergraduate studies. Exceptions may be made in special circumstances.

Second Year (FR 2000)

First Semester

Français parlé et écrit (3)   **FR 2001**

This course is intended for students who wish to develop their language skills to a high level of competence, to use French as a means of access to different areas of French Studies at third level, and to develop their awareness and knowledge of French society and culture. The study of French and francophone civilisation forms an integral element of this course.

Core Course (2)   **FR 2014**

Reading the Nineteenth Century. A literature course taught by weekly lectures and tutorials. It provides students with an integrated introduction to nineteenth-century French culture, focusing on the study of literature, but encompassing aspects of history, politics, history of ideas and art history.

Option 1 (2)   **FR 2011**

A literature/non-language option taught by weekly lectures and tutorials.

Option 2 (2)   **FR 2070**

A literature/non-language option taught by weekly lectures and tutorials.

Second Semester

Français parlé et écrit (3)   **FR 2051**

Language Course.   Prerequisite: FR 2001

Core Course (2)   **FR 2064**

Reading the Nineteenth Century. Prerequisite: FR 2014.

Option 3 (2)   **FR 2080**

Introduction à l'âge des Lumières. A literature/non-language option taught by weekly lectures and tutorials.

Option 4 (2)   **FR 2061**

A literature/non-language option taught by weekly lectures and tutorials.

Rabelais and Renaissance Fiction (2)   **FR 2081**

An introduction to the world of Humanism and Renaissance.

Notes for Second Year Students
- All courses are subject to revision from year to year. Details of courses and options available in 2005/2006 may be obtained from the Secretary of the School of Languages, Literatures and Film, Room A314, from the end of May 2005.
- All language and core courses are compulsory.
- In addition, students select one option in each semester.

Final Year (FR 3000)

First Semester

Français parlé et écrit (2)   **FR 3001**
The Third Year course is the final stage of a three-year language programme. It progresses from the study of grammar, syntax and register of language pursued in the Second Year, to include some translation, written expression, and the comparative stylistics of English and French.
Prerequisites: FR 2001 and FR 2051

Option 1 (2)   **FR 3017**
A literature/non-language option taught by weekly lectures and tutorials.

Option 2 (2)   **FR 3018**
A literature/non-language option taught by weekly lectures and tutorials.

Option 3 (2)   **FR 3014**
A literature/non-language option taught by weekly lectures and tutorials.

Option 4 (2)   **FR 3019**
A literature/non-language option taught by weekly lectures and tutorials.

Second Semester

Français parlé et écrit (3)   **FR 3051**
Language course. Prerequisite: FR 3001

Option 1 (2)   **FR 3070**
A literature/non-language course taught by weekly lectures and tutorials.

Option 2 (2)   **FR 3071**
A literature/non-language option taught by weekly lectures and tutorials.

Option 3 (2)   **FR 3069**
A literature/non-language option taught by weekly lectures and tutorials.

Notes for Final Year Students
- All courses are subject to revision from year to year. Details of courses and options available in 2005/2006 may be obtained from the Secretary of the School of Languages, Literatures and Film, (Room A314) from the end of May 2005.
- Courses FR 3001 and FR 3051 are compulsory for all students.
- Students select two option courses in each semester.

Gaeilge

An Nua-Ghaeilge

An Dara Bliain (IR 2000 - Mode II)
(IR 2100 - Mode I)

An Chéad Seimeastar

IR 2001	Labhairt agus scríobh na Gaeilge I (1)
IR 2002	An Nualitríocht I (1)
IR 2003	Teangeolaíocht na Gaeilge I (1)
IR 2004	Litríocht na Gaeilge 1600-1900 I (1)
IR 2005	An Litríocht Bhéil I (1)
IR 2006	An Ghaeilge Chlasaiceach I (1)

An Dara Seimeastar

IR 2007	Labhairt agus scríobh na Gaeilge II (1)
IR 2008	Litríocht na Gaeilge 1600-1900 II (1)
IR 2009	An Ghaeilge Chlasaiceach II (1)
IR 2011	An Nualitríocht II (1)
IR 2013	An Nualitríocht III (1)
IR 2014	An Litríocht Bhéil II (1)
IR 2015	Gaeilge na hAlban I (1)
IR 2016	An tSean-Ghaeilge I (1)
IR 2017	Scríbhneorí Próis an 17ú haois (1) (1)
IR 2018	Oidhreacht na Gaeilge I (1)
IR 2019	An Ghaeilge chomhaimsireach I (1)

<div align="right">

An Tríú Bliain (IR 3000 - Mode II)
(IR 3100 - Mode I)

</div>

An Chéad Seimeastar

IR 3001	Labhairt, scríobh is gramadach na Gaeilge I (1)
IR 3002	An Nualitríocht I (1)
IR 3003	Litríocht na Gaeilge Clasaicí I (1)
IR 3004	An Nualitríocht II (1)
IR 3005	Litríocht na Gaeilge 1600-1900 I (1)
IR 3007	An Ghaeilge Chlasaiceach I (1)
IR 3008	Teangeolaíocht na Gaeilge I (1)
IR 3009	Gaeilge na hAlban I (1)
IR 3010	An tSean-Ghaeilge I (1)
IR 3025	Litríocht na Gaeilge 1600-1900 III (1)
IR 3030	An Ghaeilge ar an scáileán: scannánaíocht agus teilifís na Gaeilge

An Dara Seimeastar

IR 3011	Labhairt, scríobh is gramadach na Gaeilge II (1)
IR 3013	Litríocht na Gaeilge Clasaicí II (1)
IR 3014	An Nualitríocht III (1)
IR 3015	Litríocht na Gaeilge 1600-1900 II (1)
IR 3016	Gaeilge na hAlban II (1)
IR 3017	An Ghaeilge Chlasaiceach II (1)
IR 3019	Prós an 17ú haois (1)
IR 3021	An tSean-Ghaeilge II (1)
IR 3022	An Nualitríocht IV
IR 3023	An Nualitríocht V (1)
IR 3026	An Ghaeilge Chlasaiceach III (1)
IR 3027	An Ghaeilge chomhaimsireach II (1)
IR 3028	Prós na Gaeilge Clasaicí I (1)
IR 3029	Prós an 18ú haois

Gaeilge na hAlban – Cúrsa an Léinn Cheiltigh

An Chéad Bhliain
Níl aon chúrsa ann.

An Dara Bliain
Mar atá faoi *An Nua-Gaeilge*: IR 2015.

An Tríú Bliain
Mar atá faoi *An Nua-Gaeilge*: IR 3009/3016.

Geography

The undergraduate course in Geography is intended to provide an appreciation of the scope of, and techniques relevant to, modern Geography. Integral to the programme are practical classes, laboratory work, project work and fieldwork as well as the normal lectures and tutorials. Fieldwork for on-site instruction and training in techniques is also an essential component of the Geography syllabus. During the three-year Degree programme, all students are required to complete a minimum of fourteen field classes from the programme of residential and non-residential classes organised by the School. This programme will vary from year to year and students should consult the School for further information. Information on the School of Geography, Planning and Environmental Policy and the courses it offers is also available on the UCD website at www.ucd.ie.

Note: Although some school or other previous study experience of Geography is of course desirable, this is not an essential pre-requisite for entry to Geography at UCD.

Second Year (GEOG 2000)

The programme of courses offered by the School of Geography, Planning and Environmental Policy is dynamic and constantly revised. The lists of courses on offer may change from year to year and the programme for any academic year is finalised only in September. What follows is based on the current syllabus and gives a good indication of the likely syllabus for the coming year but it may be changed as circumstances require.

Second Year students take the following list of courses, each of two units.

Cultural Geography   GEOG 2001
This course provides an introduction to Cultural Geography. It focuses on the historical and contemporary development of Cultural Geography; on alternative approaches to understanding the concept of landscape, and on the ways in which aspects of contemporary culture, such as identity and consumption, can be understood from a geographical perspective.

Europe   GEOG 2012
Geographical perspectives on the territorial organisation of Europe, with particular attention to the changing Political, Economic and Cultural Geography of the twentieth century. Several broad 'macro-views' of Europe will provide a framework for an exploration of current issues relevant regional development and territorial organisation.

Geomorphology   GEOG 2021
An introduction to (a) Quaternary geoscience, including the topics of oxygen isotope stratigraphy, terrestrial stratigraphy and correlation, geochronology, Quaternary climate change, glacial geomorphological processes, landforms and sediment systems as process and environmental surrogates and (b) the landforms, materials and processes associated with weathering, mass wasting, slopes and river systems.

Climatology   GEOG 2022

This course will focus on understanding the processes responsible for climate. Lectures will introduce students to concepts of energy and mass exchanges within the climate system which give rise to circulation systems.

Biogeography   GEOG 2026

An introduction to the distribution patterns of species and ecosystems across the surface of the Earth and the factors that determine these patterns. Part of the course will examine aspects of the biogeography and conservation of biological diversity in two vastly different realms: Ireland and Australia.

Geographic Techniques – Practical Course   GEOG 2060

All students will take a two-unit practical and techniques course. The syllabus of this course will vary from year to year and will depend on available resources. Details will be made available at the beginning of the academic year.

Fieldwork is an essential component of the Geography programme. The School organises a field course (GEOG 3050) abroad each year. While preference is given to Final Year students, Second Year students may participate in this course if space permits. However it is not possible to take this course for credit.

Notes for Second Year students
- The selection of practical and techniques courses on offer in any year is dependent on the availability of the necessary resources. Limits will be placed on numbers in particular practical and techniques courses. A significant proportion of the programme is examined by continuous assessment and/or projects.
- Not all the courses listed above may be available in any one academic year. Courses additional to the list above may also be offered. The list of courses on offer in any academic year will be available in September.
- Students should note that where a choice of courses is offered, the choice made may influence the range of courses available in the Final Year. Students will be required to make binding course choices early in the First Semester.

Final Year (GEOG 3000)

The programme of courses offered by the School of Geography, Planning and Environmental Policy is dynamic and is constantly revised. The lists of courses on offer may change from year to year and the programme for any academic year is finalised in September. What follows is based on the current year's syllabus and gives a good indication of the likely syllabus for the coming year but it may be changed as circumstances require. The School aims to offer the maximum amount of choice in courses to Final Year students within the context of a balanced overall geographical content. However, the limitations of the timetable may require that some courses run at the same time.

Final Year students must complete twelve units of coursework during the academic year. They choose five from the following group of two-unit courses.

Historical Geography of Ireland in the Nineteenth Century GEOG 3011

This course will consider methodology, practitioners, estates, tenants, famine, regional literature and land reform. Society and settlement will be the main focus.

Urban Geography and Planning GEOG 3030

This course provides a systematic introduction to the study of the urban region and its planning processes. Attention is concentrated upon the western world, with the planning issues that confront urban areas in the latter part of the twentieth century providing the central theme of the course.

Urbanisation in the Wider World GEOG 3031

This course will look at urbanisation in those parts of the world that can be referred to as "non-western". It will be an examination of (a) the growth and development of urban systems; (b) the changing form and function of cities over time, and (c) contemporary planning issues. In the current session the focus will be on (i) Russia and the former Soviet Union and (ii) the Third World.

The Physical Geography of Rivers GEOG 3055

This course examines the processes, landforms and surface materials of rivers and catchments in the contexts of global environmental change and resource use.

Glaciation and the Quaternary of Ireland GEOG 3056

This course will examine the evidence for the glaciation of Ireland during the Quaternary Period and will assess the applicability of global models of glaciation based upon both oceanic sediment cores and ice cores to Ireland. The course will begin with an investigation of key glaciological processes and their reflection in both glacigenic geomorphology and sedimentology before moving on to a survey of Ireland's Quaternary history. Course topics: Quaternary research in Ireland; glaciers and ice sheets; the dynamics of glaciers and ice sheets; glacial and glacigenic landforming processes; climate forcing and glaciation in the Pleistocene of Ireland; Milankovitch mechanisms and the Pleistocene Atlantic Ocean; glacial systems in Ireland and Britain through the Pleistocene; Quaternary geomorphology and ice sheet reconstructions in Ireland; physical characteristics of Ireland's glacigenic deposits; glaciological and environmental inferences based upon Ireland's glacigenic deposits; proposed Quaternary stratigraphies of Ireland; the Holocene interglacial transition in Ireland.

Cultural Geography of North America GEOG 3057

Cultural Geography, with its emphasis on landscapes, is one of the most dynamic fields of study within contemporary Human Geography. This course focuses on the landscapes of a particular place – North America.

In addition, students must choose one course from the following group of courses. Only a selection of these courses will be available in any given year whereas additional courses may be offered. Details are available from the School and will be posted on its website.

Nature and Culture in Global Perspective GEOG 3001
This course examines ways in which "Nature" has been construed and deployed for various agenda in different cultural settings. It explores tensions among competing claims to knowledge and power, varieties of narrative imagination in the landscape and current environmental issues.

Nature, Space and Time GEOG 3002
This course examines cross-cultural variations in human experience of environment. Complementing lectures, the course will include seminar discussions based on selected readings on the interactions of cognitive, behavioural, and biophysical dimensions of everyday life, and the sources of stress and creativity in the contemporary world.

Environment and Development GEOG 3004
This seminar deals with the challenge of harmonising development and environment on the European periphery, emphasising the need for elucidating human as well as biophysical aspects of development. Growth strategies in peripheral regions may lead to situations where short-term gains in economic development place pressures on natural resources; however, long-term sustainability depends on maintaining environmental quality. Unit 1 of this course will comprise a series of lectures, discussions, and final examination; Unit 2 will involve an independent project.

Cartographic Ideas GEOG 3005
This course will be concerned with issues relating to the production and critical analysis of all types of maps. Topics covered may include (a) accuracy and generalisation in maps, (b) maps as information systems, (c) maps as forms of "power knowledge" and (d) arguments for "deconstructing maps". These will be developed in relation to (i) the formulation of thematic maps for demographic and regional development purposes and (ii) the history of cartography at the global and national scales. Some attention will be given to Ireland.

Geomorphological Field and Laboratory Techniques (FL) GEOG 3009
This course introduces techniques for morphological mapping, air photo analysis, surveying for the description, sampling, analysis and interpretation of sediments and for the measurement of geomorphological processes. The course includes laboratory and fieldwork and several projects.

History and Practice of Geography GEOG 3010
This course covers the nature of Geography, its theories and methods, and major changes in ideas and practices during its development as a discipline. It also examines varieties in geographical thought in different cultural traditions and the societal and technological context within which its major styles of enquiry have emerged in Euro-American schools. Special attention is given to the relationship between physical and human branches of enquiry within the field and the challenge of integrated approaches to the study of environment today.

Settlement and Society in Ireland GEOG 3013
This course deals mainly with the structure of rural communities in Ireland and the settlement patterns associated with them. Following an introductory examination of the cultural regions of Ireland, studies by social anthropologists, folklorists and others are considered along with the work of geographers.

City of Dreams – the Ideal Urban Settlement GEOG 3015
This course will examine the search for the ideal urban settlement. Taking a broad sweep through space and time, it will be shown that there are very different perspectives on what is 'ideal' and on how to achieve it.

Holocene Fluvial Geomorphology (F) GEOG 3024
This course deals with the characteristics and formation of alluvial landscapes and floodplains during the Holocene in the context of environmental change and with particular reference to the recently glaciated valleys in upland areas of Ireland and Britain. It is based largely on field teaching classes. Various pre-requisites apply; contact the School for details.

Ice Age Ireland: Field Studies in Glacial Geology (F) GEOG 3025
This course is intended to complement GEOG 3056. The course will be oriented mainly towards fieldwork and will introduce students to both field techniques in glacial geology and to sites of special interest in the field of Irish Quaternary research. Students must obtain a minimum qualifying standard in relevant Second Year courses to participate in this course.

Geomorphological Techniques (FL) GEOG 3026
This course enhances skills in Geomorphological mapping, in the environmental interpretation of sediments and in absolute dating.

Introduction to Retailing GEOG 3037
This course is concerned with the processes of development and change within the retail system. It focuses on the locational bases of these changes, with attention being concentrated on the interrelationships between the retail and consumer subsystems, and the development of new retail formats and locations.

Store Location Analysis GEOG 3038
This course focuses on the processes and techniques of assessing the performance of existing retail locations and the potential of new retail locations. The course will be strongly practical, analysing and teaching specific locational techniques. Participants must have completed GEOG 3037 *Introduction to Retailing*.

Geography of Elections GEOG 3039
The key to the functioning of the modern state is the acquisition and retention of power through the medium of elections. This course focuses upon the processes and patterns of modern electoral systems, examining varying electoral methods, underlying socio-economic and political cleavages, electoral abuses, and geographical influences on elections.

Aspects of the Geography of the Third World   GEOG 3041

An examination from a geographical perspective of a selection of issues as they affect the Third World. The course will examine the Geography of World Trade, Industrialisation, Population Dynamics, Food Production and Urbanisation with particular emphasis on the choices faced by Third World countries as they attempt to develop their societies.

Dublin: The Historical Geography of a Capital City   GEOG 3042

This course explores the evolution of the capital city: the Viking and medieval inheritance, the classical town in the modern city, the nineteenth-century slum problems and the rising bourgeoisie in the early twentieth century.

The Growth and Development of Dublin
in the Twentieth Century   GEOG 3043

This course is concerned with the study of the growth of the city in the twentieth century. Main areas of interest will be the development of the residential component of the city, changing economic and commercial geography and the socio-demographic spatial structure of the city.

Regional Geography   GEOG 3044

An in-depth study of the Geography of a major region of the earth. The focus of the course will change from year to year.

Climate near the Ground   GEOG 3046

This course focuses on boundary-layer climates, those which form adjacent to a surface and whose special properties are derived by interaction with the surface. The subject matter includes the climates of vegetated surfaces, of animals and plants, of humans and buildings. During the term students will use meteorological instruments.

Aspects of the Geomorphology of Ireland
from Aerial Photographs and Maps   GEOG 3059

The aims of this course will be to identify elements of the geomorphology of Ireland, to characterise process relationships, both active and relict, amongst the elements and so build an understanding of the evolution of the Irish physical landscape. Throughout the course skills will be developed in applying aerial photograph interpretation (API), aerial photograph stereometry and the reading of topographic and geological maps. These skills will then be applied in carrying out geomorphological surveys of several regions and sites of particular importance to the course aims.

Dissertation   GEOG 3060

This is a substantial piece of research on a topic approved in advance by the School. The dissertation shall involve a bibliographic review and shall also include a statement of the methods and results associated with the project. The dissertation may be taken only by those students who satisfy the School of their suitability by reaching the required standard in the Second Year University Examinations in Geography. Details of the current standard required are available from the School.

Field Course   GEOG 3050

Normally this will be a residential field course in either Ireland or abroad of between 5 and 14 days duration. Details of the course on offer in any given year will be available early in the First Semester. Students must bear the costs of this field course. Those participating for unit credit must complete a programme of work before, during and after the field course. Places will be limited and it will not be possible to allocate places until midway through the First Semester. Participants normally take the field course for credit. It is regarded as a two-unit course and may replace <u>any</u> one of the courses described above.

Notes for all Final Year Students

- Not all the courses listed above will be available in any one academic year and courses additional to this list may also be offered.
- Continuous assessment is a central part of many courses. Students who do not complete assignments, fieldwork, laboratory or practical work may be required to withdraw from a course. In such circumstances s/he will not be permitted to sit any written examination in that course.
- Courses will not be offered where demand is not sufficient while it may be necessary to limit enrolment in other cases. The list of courses on offer in any academic year will be available in September and students will be required to make a binding choice of courses early in the First Semester. Some courses have prerequisites which in some cases require attendance at specific courses either in Second Year or Third Year Geography. Most courses begin in the First Semester.

German

Students require a good Higher Level grade in Leaving Certificate German to be successful in the programme. The School operates a language barrier: in order to pass a specific year of study in German, students are required to obtain certain specified standards in the language components of the examination.

Note: Students of German are normally required to spend a total period of at least three months in a German-speaking country in the course of their undergraduate studies. The School participates in a number of exchange programmes in order to facilitate students spending a year abroad. This year is taken between the second and third year of the programme.

Second Year (GER 2000)

The second year of the BA programme aims at deepening students' overall competency in written and spoken German. By the end of this year, students' academic standard and level of study skills should, if they complete the year successfully, equip them to study in a German university environment.

First Semester

GER 2001	Language Core Module 1 (Textstunde)
GER 2009	Resistance to the System

GER 2017	Romantic Monsters and Thinking Machines
GER 2018	Bauhaus: Designs For Life
GER 2059	Linguistic Relativity
GER 2014	The Political Culture of the Federal Republic of Germany
GER 2066	Volks- und Kunstmärchen der deutschen Romantik
IDAR 2001	Enlightenment and the Making of Modern Europe

Second Semester

GER 2051	Language Core Module 2 (Textstunde)
	(Continuation of GER 2001)
GER 2011	Second Language Acquisition Theories
GER 2016	Das dritte Reich
GER 2063	Deutschland und Österreich heute
GER 2067	Dürrenmatt's Dectective Novels
GER 2069	The Critical Social Theory of Karl Marx
GER 2058	Trauma and Memory in Contemporary German Literature
GER 2070	An Introduction to Freud

Notes for Second Year Students

- All Second Year German courses are subject to availability. Details of core and elective modules available in 2005/2006 will be outlined in the School of Languages, Literatures and Film Handbook which will available online from July 2005.
- Courses GER 2001 and GER 2051 are core modules.
- Students have to choose a total of **four elective modules** in the academic year, on aspects of the literature, linguistics, history, politics and economy of the German speaking countries.
- All Second Year BA (International) students and Erasmus candidates will be required to participate in the course *Deutschland und Österreich heute* (GER 2063).

Final Year (GER 3000)

The Final Year of the BA Degree programme aims at teaching the German language and culture on a level that implements the expressed goal of the School of Languages, Literatures and Film *(a) to train competent speakers of German who can express themselves fluently both in spoken and written German; (b) to develop students' analytical, historical and cultural competence by exposing them to literary and cultural themes, styles and discourses which enhance their understanding of the cultures of the German speaking countries.*

Please note: As in all other years, the School operates a progression rule. For further details, please consult the School Handbook.

First Semester

GER 3001	Language Core Module 1 (Textstunde)
GER 3017	Modality and Politeness
GER 3065	Erzählen um 1900

GER 3067	Sociolinguistics
GER 3070	Amerika in der deutschen Literatur
GER 3071	Modern German Film
GER 3083	Der Heimkehrer in der Weimarer Republic
GER 3084	Wilhelm von Humboldt: On Language

Second Semester

GER 3051	Language Core Module 2 (Textstunde)
	(Continuation of GER 3001)
GER 3005	Reading Kafka
GER 3072	Joseph Roth
GER 3074	German Minority in Italy
GER 3068	Nietzsche: Jenseits von Gut und Böse
GER 3077	Bilder Helvetias
GER 3080	New German writing and the pop-literature debate
GER 3081	Observing the City
IDAR 3001	Nineteenth Century German Opera

Notes for Final Year Students

- All Final Year German courses are subject to availability. Details of core and elective modules will be outlined in the School of Languages, Literatures and Film Handbook which will be available online from July 2005.
- Courses GER 3001 and GER 3051 are core modules.
- Students have to choose **four elective modules** (two per semester) on aspects of the literature, linguistics, history, politics and economy of the German speaking countries. These elective modules are designed to allow students to develop areas of specialised interest.

Greek

Deemed equivalent to twelve units

Greek Literature   GRK 2002

(each of the following courses is taught by weekly reading classes throughout one semester):

(a) Archaic Greek Epic: Homer's *Iliad*

Homer's *Iliad* stands at the apex of the Western literary tradition, as well as marking the point of progression from oral to written poetic forms. In this course we will read *Iliad 9* (the embassy to Achilles) with an eye on both 'oral' and 'literate' poetics: familiarising ourselves with the formulaic style which is characteristic of the oral tradition, as well as considering the literary purposes to which the epic language is put.

(b) Sophocles, *Trachiniae*

(c) Plato, *Symposium*

In the *Symposium* Plato presents a cross-section of Athenian views on 'love', culminating in Plato's own concept of love as a vital component of philosophy. In this course we will study the dramatic structure and stylistic levels of the *Symposium* as well as its philosophical implications. In addition students will read Lysias I and Plutarch, *Pericles.*

Translation skills   GRK 2003

The aim of this course is to help students to become proficient in translating Greek. The course begins with a revision of basic Greek grammar; two classes per week throughout both semesters are devoted to the translation and discussion of Greek prose/verse passages.

Greek History: The Rise of Macedon   GRK 2004

Students taking *Greek* with *Greek and Roman Civilization* will, in place of GRK 2004, read Plato, *Republic I*

Mode B (GRK 2001)

Deemed equivalent to twelve units

Greek Literature   GRK 2005

(each of the following courses is taught by weekly reading classes throughout one semester)

(a) Socrates on trial and in prison

In Plato's *Apology*, Socrates defends his philosophical life and then responds to the verdict and the sentence. In Plato's *Crito*, Socrates tells his oldest friend that an escape would defy Athenian law and Socratic morality. Students will study both texts for this course.

(b) Euripides, *Medea*

(c) Archaic Greek Epic: Homer's *Iliad*

Homer's *Iliad* stands at the apex of the Western literary tradition, as well as marking the point of progression from oral to written poetic forms. In this course we will read *Iliad* 9 (the embassy to Achilles) with an eye on both 'oral' and 'literate' poetics: familiarising ourselves with the formulaic style which is characteristic of the oral tradition, as well as considering the literary purposes to which the epic language is put.

In addition to these courses students will read Lysias I.

Translation skills GRK 2006

The aim of this course is to help students to become proficient in translating Greek. The course begins with a revision of basic Greek grammar; two classes per week throughout both semesters are devoted to the translation and discussion of Greek prose/verse passages. In the Second Year examination there will be two prose and two verse passages for translation into English. The verse will be taken from the work of Euripides; one prose passage will be taken from either Xenophon's or Arrian's *Anabasis*, the other from Lysias.

Greek History: The Rise of Macedon   GRK 2007

Students taking *Greek* and *Greek and Roman Civilization* will, in place of GRK 2007, read Plato's *Symposium*.

Final Year (GRK 3000)

Deemed equivalent to twelve units

Modes A and B

Greek Literature   GRK 3001

(each of the following courses is taught by weekly reading classes throughout one semester)

(a) Aeschylus, *Eumenides*

(b) Cloudcuckooland

Aristophanes, *Birds:* In the best play of the greatest comic dramatist in the classical world, an Athenian leaves his litigious city and leads the birds in establishing a revolutionary state to challenge both men and gods.

(c) Propaganda of War

Thucydides in book 2 of his history has Pericles describe Athens as 'an education for Greece' illustrating his claim with a glorification of her institutions and character, in contrast to the Spartans. A little later, and perhaps a little more realistically, Pericles declares to the Athenians 'Your empire is now like a tyranny: it may have been wrong to take it; it is certainly dangerous to let it go.' Book 2 narrates the effects of building an Empire – war and the arguments used by both sides to justify that war.

In addition to these courses students will read Herodotus VI and Sophocles, *Oedipus Tyrannus.*

Translation skills GRK 3002

The aim of this course is to help students to become proficient in translating Greek. The course begins with a revision of basic Greek grammar; two classes per week throughout both semesters are devoted to the translation and discussion of Greek prose/verse passages.

In addition to the above courses, students will be required to choose one from the following list of courses or, subject to approval by the Head of School, a student may substitute an extended essay (GRK 3026) of approximately 12,000 words.

GRK 3023   Plato's 'Republic'
GRK 3027   The Oedipus Myth
GRK 3028   The Archaeology of Minoan Crete
GRK 3029   Special Subject
GRK 3030   The City of Athens

Greek and Roman Civilization

(deemed equivalent to twelve units)

Greek History: The Rise of Macedon **GRC 2001**

Greek Art and Archaeology: The Archaeology of Greek Society **GRC 2002**
This course builds on the Stage 1 Greek Archaeology course. It covers the same periods and material, but they are approached as a method for understanding Greek society. Themes covered include: mythology and art as propaganda, sport and welfare, burial customs, the symposium and prostitution, gender relations. Students are thus introduced to archaeology as a method for social interpretation and understanding.

Greek Philosophy: Plato, *Phaedo* **GRC 2003**
The prescribed text for this course is Plato's *Phaedo*. In this dialogue Plato portrays Socrates at his death arguing for the immortality of the soul. Lectures deal with the personal and philosophical presentation of Socrates, the arguments for the soul's immortality, with special reference to Plato's Forms, and the myth near the end.

Greek Literature **GRC 2004**
Greek Tragedy: Aeschylus, *Prometheus Bound and Other Plays*; Sophocles, *Electra and Other Plays*; Euripides, *Medea and Other Plays* (all in Penguin Classics). The prescribed texts for this course are Aeschylus' *The Persians and Prometheus Bound*; Sophocles' *Ajax and Women of Trachis*; Euripides' *Medea, Hecabe* and *Heracles*. The lectures deal with the social and theatrical context of Greek Tragedy, and with the structure and themes of the seven plays. The course focuses in particular on the justice of the gods, on the nature of heroism (both male and female), and on the problem of revenge.

Roman History: The Early Roman Empire **GRC 2005**
This course covers the history of the Early Roman Empire, from the death of Julius Caesar in 44 BC to the end of the reign of Hadrian in AD 138. It explores the fascinating political history of the early emperors, and uses a range of ancient sources, especially Suetonius' *Lives of the Caesars*, to examine various historical themes, including: the army, the imperial aristocracy, wealth and social status, the Roman arena.

Roman Sculpture **GRC 2006**
This course focuses on Roman sculpture in the Late Republic and Early Empire from the perspective of ancient sculpture collections and collection practices. It will examine the ancient Roman art market and the display of statues in the context of the Roman villa and prominent public spaces in the city of Rome. The course also addresses questions of style, iconography, and the relationship of Roman to Greek art.

Roman Literature: Virgil's *Aeneid* **GRC 2007**
When Virgil began writing his epic poem *The Aeneid*, Augustus was establishing his imperial rule. Virgil's contemporaries and generations to come, greeted *The Aeneid* as a

celebration of Augustan Rome; modern readers tend to view it as a powerful denunciation of war and imperialism. The lectures explore the text's engagement with both political ideology and the literary tradition.

Ancient Society: Philosophy in the Hellenistic and Roman World   GRC 2008

Stoics, Epicureans and Platonists were the philosophers who had the greatest direct influence on the everyday life of Greeks and Romans. This course examines their different approaches to moral virtue, adversity, death and our relationship to the divine, as far as possible through the words of the philosophers themselves.

Final Year (GRC 3000)

Deemed equivalent to twelve units

Subject to certain restrictions in choice, students will be required to choose four from the following list of courses. Subject to approval by the Head of School, a student may substitute an extended essay (GRC 3029) of approximately 12,000 words for one of these courses.

GRC 3001   The Archaeology of Minoan Crete
GRC 3003   The Oedipus Myth
GRC 3015   Plato's 'Republic
GRC 3016   Spartacus and the Slave Wars
GRC 3022   Epic after Virgil: Ovid and Lucan
GRC 3026   Family Life in Ancient Greece
GRC 3028   Power, Politics and Parody in Ancient Rome
GRC 3030   The City of Athens
GRC 3031   Roman Wall Painting

General Notes:

- The texts listed above are prescribed and available in the Penguin Classics series except where indicated. A list of recommended further reading will be issued at the commencement of the courses. Details of courses may have to be altered at short notice because books are not available or for other urgent reasons.

- Students will be expected to attend tutorials and to maintain a satisfactory standard in essay work connected with them.

Hebrew

The Hebrew studied in UCD's School of Languages, Literatures and Film is Early Hebrew, that is the language of the Bible, ancient inscriptions and the Dead Sea Scrolls. No previous knowledge of Hebrew is assumed or required, but some previous experience of language study would be helpful.

Second Year (HEB 2000)

Hebrew Grammar and Prose Composition   **(2 units)**   **HEB 2001**
This course continues the study of Biblical Hebrew grammar, with instruction and practice in translation from English to Hebrew prose.

Hebrew Texts I   **(2 units)**   **HEB 2002**
The Hebrew short story: Ruth, Esther.

Hebrew Texts II   **(2 units)**   **HEB 2003**
The textual and literary analysis of the Deuteronomic tradition with particular reference to the book of Deuteronomy.

Hebrew Texts III   **(2 units)**   **HEB 2004**
Introduction to Hebrew Epigraphy: a detailed study of a number of ancient Hebrew inscriptions.

Seminar   **(2 units)**   **HEB 2005**
The History of Israel 2000 – 587 BCE.

Hebrew Texts IV   **(2 units)**   **HEB 2006**
Prophetical literature: Amos and Jonah.

Final Year (HEB 3000)

Hebrew, Grammar and Prose Composition   **(2 units)**   **HEB 3001**
This course continues the study of Biblical Hebrew grammar, with further instruction and practice in translation from English to Hebrew prose.

Hebrew Texts I   **(2 units)**   **HEB 3002**
The textual and literary analysis of the so-called "Succession Narrative": 2 Sam 9-20; 1 Kings 1-2.

Hebrew Texts II   **(2 units)**   **HEB 3003**
Hebrew Poetry: selections from the Psalms and the Song of Songs.

Hebrew Texts III   **(2 units)**   **HEB 3004**
The Dead Sea Scrolls: a study of selected texts discovered at Khirbet Qumran.

Hebrew Texts IV (2 units) HEB 3005

An introduction to the textual history and transmission of the Hebrew Bible and that of the early versions of Greek, Aramaic and Syriac and the Dead Sea Scrolls.

Seminar (2 units) HEB 3006

The History of Israel 587 BCE – 132 CE.

Hellenistic Greek

(Minor Subject in Mode III Near Eastern Languages)

Second Year (HGRK 2000)

Mode III

Introduction to Hellenistic Greek Texts (2 units) HGRK 2001

Selected passages from the Acts of the Apostles, Letters of St Paul, Polybius, Plutarch, the *Didache*.

The Textual Transmission of the New Testament (2 units) HGRK 2002

Hellenistic Greek Literature (2 units) HGRK 2003

The history of Hellenistic Greek literature, with particular reference to New Testament literature.

Final Year (HGRK 3000)

For Mode III

Hellenistic Greek Texts (2 units) HGRK 3001

Selected passages from the four Gospels; the Septuagint; Philo Judaeus; selected papyri; Clement's letter to the Corinthians.

New Testament Greek (2 units) HGRK 3002

The distinguishing grammatical features of New Testament Greek.

History of the Septuagint (2 units) HGRK 3003

A study of the language, translational features and textual transmission of the Septuagint.

History

[Modern History; Modern Irish History; Medieval History; Early (including Medieval) Irish History]

The School of History incorporates what had been until recently four Departments; Modern History, Modern Irish History, Medieval History and Early (including Medieval) Irish History.

The School offers a wide variety of courses, ranging in time from the fifth century AD to the year 2000. The history of Ireland, Britain and Continental Europe receives particular emphasis. American history is taught in all three years and some courses also deal with other areas of non-European history, such as Australian and Japanese. Students may concentrate on different areas of history at different stages of their university careers.

Prospective students should note that a prior knowledge of history is *not* necessary for Stage 1 courses.

The School teaches through tutorials, seminars and lectures. In the tutorial system students meet weekly or fortnightly in small groups; they write essays regularly throughout the year; and they discuss particular historical issues and problems with their tutor and with each other. They acquire practice in organising and expressing their arguments, both verbally and in writing.

Attendance is obligatory in all three years. In Second and Third Year the proportion of marks awarded for students' tutorial performance is 25%.

Second Year (HIS 2000)*

In Second Year, Mode II (HIS 2000) students take courses HIS 2328 and HIS 2411 and <u>two</u> other courses chosen from a list **similar** to that below. Not all courses will be offered in any one year. There will be restrictions on choice imposed by class size, timetables and, in certain cases, subject matter. Mode I (HIS 2100) students take four courses, as outlined above, and also HIS 2901, HIS 2902, HIS 2903.

HIS 2051	Early Modern Europe, 1450-1660 (3)
HIS 2061	Twentieth-Century Britain (3)
HIS 2103	Ireland in the 'Golden Age', 650-750 (3)
HIS 2201	The Crusades (3)
HIS 2203	The Age of the Vikings (3)
HIS 2206	Britain and Ireland, 1100-1400 (3)
HIS 2316	The United States, 1877-1952 (3)
HIS 2322	The Tudor Dynasty, 1485-1603 (3)
HIS 2324	France 1930-1995 (3)
HIS 2325	US Foreign Policy in the Twentieth Century (3)
HIS 2326	China, Japan and Korea, c. 1549-c. 1959 (3)
HIS 2327	Australian Social History: A Survey, 1788-2002 (3)
HIS 2328	From Reformation to Enlightenment: the Making of the European Mind (3)
HIS 2407	Irish Emigration, 1840's-1960's (3)
HIS 2409	From Conquest to Union: Ireland, 1600-1800 (3)
HIS 2410	Medicine, State and Society in Britain and Ireland, 1650-1950 (3)
HIS 2411	Land, Religion and Identities: Ireland, 1650-1950 (3)

Mode 1 only (HIS 2100)

HIS 2901	Medieval History Seminar (4)
HIS 2902	Modern History Seminar (4)
HIS 2903	Modern Irish History Seminar (4)

Final Year (HIS 3000)*

In Final Year, Mode II (HIS 3000) students take HIS 3341 and <u>three</u> other courses from a list **similar** to that below. Not all courses will be offered in any one year. There will be restrictions on choice imposed by class size, timetables and, in certain cases, subject matter. Mode I (HIS 3100) students take four courses, as outlined above, and also HIS 3901, HIS 3902, HIS 3903.

---

* *Note:* Please note that courses are subject to change from year to year. Details are available from the School Office.

* *Note*: Please note that courses are subject to change from year to year. Details are available from the School Office.

HIS 3031   Protestant State, Catholic Nation: Ireland, 1760-1800 (3)
HIS 3035   Irish Foreign Policy, 1919-1973 (3)
HIS 3039   Confederate Ireland, 1641-1649 (3)
HIS 3060   The West and the Middle East, 1919-1973 (3)
HIS 3103   The Book of Kells and its World (3)
HIS 3106   The Legacy of the Roman World, 350-750 (3)
HIS 3202   Medieval Dublin (3)
HIS 3207   From the Crusades to Christopher Columbus: Europe and the Wider World
            c.1000 – c.1500 (3)
HIS 3209   The Age of Charlemagne, (768- - 814) (3)
HIS 3210   The Twelfth-Century Renaissance (3)
HIS 3304   The French Revolution (3)
HIS 3306   The US Civil War, 1850-77 (3)
HIS 3311   Australia, the Region and the World, 1941-2002 (3)
HIS 3314   Early Modern France, 1530-1715 (3)
HIS 3317   Nineteenth-Century Paris: Politics and Culture (3)
HIS 3320   The Irish in America (3)
HIS 3331   Britain and European Integration, 1945-1990 (3)
HIS 3332   Nazism (3)
HIS 3333   Seventeenth-Century Britain: Revolution and Restoration, 1600-1700 (3)
HIS 3334   John Evelyn and Samuel Pepys: Diaries of Restoration England (3)
HIS 3335   The Russian Revolutionary Tradition, 1760-1917 (3)
HIS 3336   From the Yellow to the Red Emperors: the Rise of Modern China (3)
HIS 3337   Born Modern? Themes in Australian Colonial History, 1788-1901 (3)
HIS 3338   America in the Sixties (3)
HIS 3339   Origins of the First World War (3)
HIS 3340   Politics and Culture in Soviet Russia, 1917-1953 (3)
HIS 3341   War and Peace 1914–1991 (3)
HIS 3404   Poverty and Public Health in Nineteenth-Century Ireland (3)
HIS 3409   The Irish Revolution, 1910-23 (3)
HIS 3411   Landlords and Tenants: Law and Society in Nineteenth-Century Ireland (3)
HIS 3421   Ireland, the 'Glorious Revolution' and the Atlantic World, 1685-1702 (3)
HIS 3422   Themes in Modern Irish History

Mode I (only)(HIS 3100)

HIS 3901   Medieval History Seminar (4)
HIS 3902   Modern History Seminar (4)
HIS 3903   Modern Irish History Seminar (4)

History of Art

Second Year (HA 2000)

Second Year Students take all four courses:

Nineteenth-Century French Painting   HA 2011

This course examines how the development of French Painting in the nineteenth century assumed such a progressive, dynamic, advanced character. Centred in Paris, the Salon exhibition, the hierarchy of genres, and the enduring value of Jacques-Louis David's work and history painting in general will be explored. The emergence of Realism, Impressionism and Post Impressionism are appreciated in this light and in the context of great societal upheaval. New painting techniques, the changing representation of the female figure and issues of modernity will be examined.

Modernism   HA 2003

This course is an introduction to art in the 20th century. It will explore various art works, issues and Modernist and Post-Modernist movements, independently and interrelated, from Art Nouveau to Concept Art. While the focus will be on the works and the study of images, the significance of the theoretical writings of both artists and critics will be examined.

Irish Art   HA 2008

The principal aim of this course is to give an acquaintance of Irish painting of the period from 1640 to 1950. The work of Irish painters both at home and abroad will be examined and comparisons will be made with contemporary work in a European context.

Medieval Art and Architecture   HA 2006

The course begins with the Late Roman period and examines parallel developments in Early Christian Art. Specific reference is made to the Age of Justinian and Early Byzantine building. Byzantium and its influences on Western art, especially Sicily, is also considered. The course then examines art in the reign of Charlemagne in the west and the transition to early Medieval art and architecture in the Romanesque period. Particular attention is given to architecture and sculpture in Ireland during this time.

Final Year (HA 3000)

Final Year students take four core lecture courses and one combined lecture/seminar option.

Rembrandt in Context   HA 3011

This course will assess the achievement of Rembrandt from a variety of approaches: artistic, social, cultural and economic. One of the seventeenth century's most prominent and versatile artists, Rembrandt established new pictorial strategies for portraying Amsterdam's newly enriched middle classes and created highly personalized Biblical images of unprecedented emotive power. Among the aspects of his career and output to be studied will be his workshop practices and training of pupils, his social and professional status and his changing critical fortunes.

Irish Art: Modernism and Post-Modernism   HA 3008

A central theme of this course is the expansion of the practice of painting and sculpture between 1922 and 1990. This development is set within the context of conflicting attitudes towards nationalism and modernism by the State, critics and artists.

The course considers the role, patronage and the function of private galleries and exhibition societies to the progress of modern Irish art. It examines how Irish art has reflected the modernisation of Irish society, how Irish artists have responded to international art practice and how their work has contributed to and challenged notions of an Irish cultural identity.

Writings on Art   HA 3032

Works of art may be studied in a variety of ways and the discipline of art history encompasses a broad range of conceptual approaches and research techniques. This course introduces students to the historiography of art history by explaining the principal methods of enquiry, including iconographical, socio-economic and formalist approaches. The course will trace the origins of art history in the ancient world and its development from that period into the nineteenth and twentieth centuries.

New Lecture course to be announced.

Lecture and Seminar Options 2005-2006

The options have been designed to afford each final year student the opportunity to take a lecture course in either architecture or sculpture, and to participate in a seminar. Students will be invited to make their selection at the end of Second year.

NB: It must be understood that in the interest of balancing seminar numbers it may not be possible to give all students their first choice. If certain options are oversubscribed selection will be made on the basis of exam results. Only those achieving 65% and over in their Second year examination can be guaranteed their first choice.

The options are as follows:

Lecture Courses

Aspects of Sculpture: from Neoclassicism to Postmodernism   HA 3010

This course addresses aspects of sculpture – individuals, styles, theory, practice and training – in the last two centuries.

The public nature of sculpture will be explored, the inherent abstract qualities of sculpture will be identified and both the contract to and the interrelationship with painting will be examined. The essence of sculpture will be seen to develop in this period from what was a timeless expression and an enduring form to one of transience addressing the passage of time.

OR

Modern Architecture 1890-1990   HA 3016

The 20th century has witnessed unprecedented development in the design construction of buildings and their settings. This course offers a survey of modern architecture from the late nineteenth century to the present day and will address the diverse and rapidly changing character of architecture during the period. Emphasis will be placed on the

work of leading designers and on detailed analysis of key buildings. The course will also address the broader theoretical and ideological concerns of twentieth-century architectural debate.

Seminar Options

Caravaggio and Caravaggism   HA 3027

Few personalities in the history of art have had the impact of Michelangelo Merisi da Caravaggio. Despite pursuing a relatively brief and violent career in Rome, Naples, Sicily and Malta, Caravaggio's revolutionary work left an indelible mark on the history of art. Although he discouraged imitators, this did not deter the development of a pan-European Caravaggesque style in the decades after his death.

By taking its cue from paintings in the National Gallery of Ireland, this course seeks to place Caravaggio in the context of the movement he inspired.

The Grand Tour   HA 3012

This course will examine the expeditions of Irishmen to Italy in the eighteenth century. Amongst the topics to be covered will be the patronage and collecting activities of Grand Tourists, exemplified by Joseph Leeson and Lord Charlemont. The work of Irish artists in Italy, including Henry Trench, James Barry, Christopher Hewetson, Hugh Douglas Hamilton and Robert Fagan, will also be discussed.

The course will also investigate the influence of the Grand Tour in Ireland and trace its effect on architecture, art, collecting and domestic ornament, with particular reference to Castletown House, Co. Kildare, Russborough House, Co. Wicklow and the Casino at Marino.

The Art of the Northern Renaissance   HA 3033

In the 15th and 16th centuries the Netherlands and the German states experienced a flourishing of the visual arts equal in significance to contemporary developments in Italy. Mastery of the technique of oil painting allowed artists to achieve an unrivalled verisimilitude and exquisiteness of detail in their work. All of this was accomplished against a backdrop of extraordinary social, cultural and religious change, which left an indelible mark on the patronage, production and subject matter of art. This course will focus on major practitioners such as Van Eyck, Bosch, Bruegel, Dürer, and Holbein. It will also investigate topics such as the advent of printmaking, the impact of the Reformation, and the rise of landscape, portraiture and other secular genres.

The Decorative Arts in Eighteenth Century Europe – the production and consumption of decorative art objects   HA 3022

This seminar will examine the production, retailing and consumption of luxury goods in eighteenth-century Europe. It will consider the range of stylistic developments, which affected the design and physical appearance of commodities like ceramics, glass and silver objects. Who were the arbiters of taste and fashion during this period? What was new? How did developments in terms of fashionable living generate keen demand for new categories of goods such as silver or ceramic tea wares?

The way in which luxury goods were manufactured, advertised and sold will be examined using both modern and eighteenth-century sources to develop a closer understanding of the objects.

Information Studies

The undergraduate programme in Information Studies provides an understanding of the interaction between people and recorded knowledge from a humanistic perspective. It examines the generation, representation, storage, organisation, communication and use of knowledge by individuals, groups and society as a whole.

Students have the opportunity to study specific aspects of information studies in depth in Second and Third Year. Specific assignments, e.g. essays, seminars, reports and projects, will form an important part of the learning process in all years of the Information Studies programme.

Second Year (IS 2200)

Each student takes twelve units from the range of courses offered. The following course units are typical of the choice which will be offered in any year.

Information in Organisations   (2 units)   IS 2211
This two-unit course examines the problem of communications in organisations and the analysis of information flow and information networks within organisations. The aim of the course is to examine the role of information and information systems in organisations, the impact of the changing economic and technical environment of organisations on information systems, and to compare the character of formal information systems and informal communication patterns. Within this general framework emphasis is placed upon individual and group information handling within work groups rather than on the design of systems.

Introduction to Human Information Behaviour   (2 units)   IS 2212
This two-unit course places the focus of attention on the users of information systems or services. Too often in the past the focus of research and practice has been on the system itself or particular aspects of a service. This course looks at many of the individual characteristics of users and their behaviour in approaching an information system or service and attempts to show how essential the user is in determining the success of a system. Methods of assessing user needs and behaviour through user studies are also discussed.

Information in Organisations   (2 units)   IS 2221
This two-unit course examines aspects of both print and electronic text distribution in Ireland. It should complement to some extent any coverage of broadcast media or contemporary creative writing within the range of Arts/Social Science Degree subjects taken by students. This process of consumer purchase is examined with regard to particular generic types of text: newspaper, magazines, best-sellers, popular reference. Based mainly on post-1945 marketing techniques in Ireland, the United Kingdom and

elsewhere, the course aims to characterise and predict some of the lasting consequences of these changes for the reading culture of the next century.

General Information Resources   (2 units)   IS 2241

A general overview of a range of widely available information resources is presented in this two-unit course. Examples of resources covered by the course include print, audio-visual and electronic media, with emphasis on information and publications available through regular book trade channels and the media. The course is intended for information users.

Introduction to Computers   (2 units)   IS 2261

This two-unit foundation course presents an overview of information technology in the late 20th century aimed at those with limited or no previous knowledge. Broad areas covered are: the basics of how computers work, hardware (CPU, main memory, secondary storage devices, input and output devices), software (systems software and applications software), networks and connectivity (Local Area Networks and the Internet). The computer industry and social, ethical and human issues associated with computerisation are also examined.

Introduction to Databases   (2 units)   IS 2262

This two-unit course focuses on computerised databases. Database theory is introduced, including functions, components and structures of databases. Students will be introduced to creating their own database using a popular Database Management System (DBMS). This will include the practical and technical skills required to create a database, as well as the evaluation criteria used in selecting a particular DBMS. Students will be introduced to the issues associated with searching bibliographic and full-text databases.

Design of Information Systems   (4 units)   IS 2263

In this four-unit course the student investigates the information systems of a particular organisation, with regard to the implementation of a new technology based information system. Each student is required to create a Project Initiation Document (PID) that provides an analysis of the existing IS set-up and a proposal for the introduction of this new service. The central aim of the PID is to identity the information systems at work within the organisation, what individuals involved want to achieve, and what new Information Technology/Information Systems will be required to implement the project. The selection of actual software or the creation of any physical systems is outside the scope of the project. A formal knowledge of computers, at a level corresponding to Stage 1 Computer Science, is a prerequisite for this course.

Presentation of Electronic Information   (2 units)   IS 2265

This intermediate level two-unit course builds on the basic concepts and principles of presentation of information introduced in course IS 1112 (*Presentation of Information*). IS 2265 concentrates on the presentation of electronic information, that is, information stored, retrieved or presented via computer. This course aims to provide a critical understanding of the methods of presenting electronic information, how and why these methods have evolved and how they may evolve in the future. It also aims to foster basic skills in the presentation of electronic information, in particular, the use of desktop

publishing technologies. IS 2265 is a prerequisite for the Third Year course *Web Publishing*.

<div align="right">

Final Year   (IS 3300)

</div>

Each student takes twelve units from the range of courses offered. The following course units are typical of the choice which will be offered in any year:

Information Policy   (2 units)   IS 3311

This two-unit course begins with a review of the range of information policies pursued by most governments in western societies and continues this theme in two ways. First, by looking at individual issues like copyright, censorship, data protection and secondly by reviewing the experience of individual countries.

Culture, Information and Technology   (2 units)   IS 3312

This two-unit course examines social and cultural perspectives on information and technology. Topics will include how individuals and organisations in modern society perceive information and technology, the impact of new technology and information systems on social and cultural structures in modern society, and changes in social control of information. Issues such as global culture, virtual communities and the sociology of technology and knowledge will be discussed.

History of the Book   (2 units)   IS 3323

This two-unit course explores and researches the impact of print culture as it evolved post-1500 in Europe and North America. The programme of study is interdisciplinary and collaborative with a number of Schools/Centres. It foresees the preparation of research themes in the domain.

Management of Information Agencies   (2 units)   IS 3331

This two-unit course is an introduction to the theory of organisation and to the use of management techniques in libraries and information units. The following topics will be covered: introduction to organisational theory; designing and maintaining the organisation; managerial responsibilities; structure of information agencies; management of resources, including personnel, finance and budgeting, materials, buildings and equipment.

Introduction to Electronic Resources   (2 units)   IS 3344

This two-unit course examines the principles and practice of online searching, using commercial databases in a variety of formats including CD-ROM and online. An overview of electronic products is followed by a more detailed exploration of the skills of online searching with emphasis on the techniques of selection, retrieval and evaluation of databases. The course will concentrate on basic online searching skills with a significant practical component of live online searching and will require considerable student initiative to work independently in practical exercises. The following aspects of searching will be covered: basic concepts of database structure, particularly inverted file searching using Boolean logic; command languages; search strategies using controlled and natural

vocabularies; and access to CD-ROM and Internet resources. The range of databases will be assessed and search results evaluated, in relation to specific information needs.

Resources for Studies in Children's Literature   (2 units)   IS 3347

This two-unit course introduces significant aspects of children's literature provision in Ireland. Past, present and emerging trends are assessed and monitored. The interlocking roles of librarians, teachers and publishers are explored and a basis is developed for future domestic and overseas co-operation.

Advanced Web Publishing   (2 units)   IS 3365

This two-unit course aims to give students an understanding of some of the principal aspects of computer-mediated publications. It concentrates on online publications disseminated via the Internet or CD-ROM. The course aims to encourage awareness of current technical, commercial and social issues affecting electronic publishing via a case study of one particular electronic publication, the electronic journal. Topics covered include evolution of the ejournal, dissemination methods, document formats and economic issues. The course also has a substantial practical element; students will learn how to publish on the World-Wide Web using HTML (Hypertext Markup Language). IS 2265 *Presentation of Electronic Information* is a prerequisite for IS 3365.

Librarians and Information Seeking
in the 21st Century Workplace   (2 units)   IS 3418

This is a two-unit advanced seminar course that trains students to understand and thereby act as intermediaries in the information worlds of professionals who work in traditional and new flexible work environments. Students will explore theories of information behaviour, landmark studies and current research in this field and then apply this knowledge to library and information services in different work contexts.

European Information Markets   (2 units)   IS 3446

The two-unit course is introduced by outlining the formation, structure and purpose of the European Union and the concept of an information market. The emergence of a European information industry, supported by rapid, innovative advances in information and communications technologies and which now offers a wide range of information products and services, is critically reviewed. Current markets for electronic on-line databases (including interactive videotex services and real-time and reservations systems), portable compact disk (CD) databases, value added network (VAN) services (including e-mail, EDI and POS services) and new audiotext services are evaluated. Comparisons are made between market trends within the European Union, in the context of an environment that is multi-lingual and multi-cultural and is composed of national economies at various stages of development. Progress in the European information market is also compared with developments in the United States and Japan. The course concludes with a review of the electronic information services in market in Ireland.

Telecommunications and Networks   **(2 units)**   **IS 3461**

Technical developments which allow data to be communicated to, and from, a computer system are surveyed in this two-unit course. Goals of the course will be: (1) to learn about recent developments in information and communications; technologies and the internet applications that derive from them; (2) to provide a framework for understanding recent changes in telecommunications, as well as prospects for future developments in telematics; (3) to critically evaluate the quality and value of information resources available via networks; (4) to assess the relevance and implications of telecommunications developments for libraries and other information providers; (5) to discuss theories of computer mediated communication, examine how people and organisations are using conferencing, internet and other telematic applications to exchange information and what problems are emerging; (6) to learn about the problems of operating networks and conferencing systems, as well as design issues for novices facing such programmes.

Early (Including Medieval) Irish

Second Year (EMIR 2000)

Major Subject (deemed equivalent to twelve units)

EMIR 2001   Early Irish Grammar
EMIR 2002   Studies in Early and Middle Irish Literature.
EMIR 2003   Study of Selected Texts I
EMIR 2004   Selections from Early Irish poetry.
EMIR 2005   Study of Selected Texts II
EMIR 2006   Study of Selected Texts III

As a minor subject in Celtic Studies, Early Irish may be taken initially in the Second Year. This course will have a more marked linguistic orientation than the Stage 1 course. Courses will be chosen from the above list in consultation with the School.

Cúrsa do mhic léinn na Nua-Ghaeilge (ach amháin i Modh III).
Gramadach na Sean-Ghaeilge agus forás na teanga. Prós agus filíocht na Sean- agus na Meán-Ghaeilge (toghfar téacsanna).

Final Year (EMIR 3000)

Major Subject (deemed equivalent to twelve units)

EMIR 3001   Extended Study of Old Irish Language
EMIR 3002   Selected Specialised Literary Texts
EMIR 3003   Analysis of Middle Irish Texts
EMIR 3004   Studies in Selected Legal Texts
EMIR 3005   Studies in Selected Historical Texts
EMIR 3006   Studies in Selected Ecclesiastical Texts
EMIR 3MIN   Minor Subject in Celtic Studies (Mode III)

Study of early Irish language, literary history and texts. Courses will be chosen from the above list in consultation with the School.

Cúrsa do mhic léinn na Nua-Ghaeilge (ach amháin i Modh III).
Gramadach na Sean-Ghaeilge agus forás na teanga. Prós agus filíocht na Sean- agus na Meán-Ghaeilge (tochfar téascanna). Stair na litríochta.

Irish Folklore

Second Year (IRFL 2000)

Major Subject in Celtic Studies, Mode III (deemed equivalent to twelve units)
Lectures and seminars will be offered on the following topics:
1. Field work and archiving.
2. Folk narrative.
3. Belief and custom.
4. Folklife.

Since a high proportion of the material is in the Irish language, students cannot be accepted until they can show the necessary competence in that language. Knowledge of a second modern language is also desirable.

Students will be expected to take part in field trips and individual fieldwork.

A reading list will be available at the beginning of term.

Final Year (IRFL 3000)

Major Subject in Celtic Studies, Mode III (deemed equivalent to twelve units)
A course of study in Irish Folklore in continuation of work done in the Second Year with special reference to:
1. Research methods.
2. Folk narrative.
3. Aspects of folk belief.
4. Social tradition.
A reading list will be available at the beginning of term.

Irish Studies

Please see the UCD website for details of this new BA subject:
http://www.ucd.ie/horizons/programmes/arts.html.

Italian

No prior knowledge of the language is required; beginners are given an intensive language course which aims to bring them up to the level of non-beginners by the end of the Stage 1 and to allow them to cope with the demands of the various language and literature courses in their Second and Final Years.

The three-year Italian programme is designed to make students proficient in the four language skills (reading, writing, listening and speaking) and to familiarise them with the history and culture of Italy from the Middle Ages to the present. Particular attention is paid to the culture of different periods and to ways of reading and interpreting literature.

Students proceeding to a Degree in Italian are normally required to spend a total of at least three months in Italy during the period of their undergraduate studies. Exceptions may be made in special circumstances. The School will provide help and advice for those visiting Italy to satisfy this requirement.

Booklists and further information about courses will be supplied by the School.

Second Year (ITAL 2000)

Six units are taken in each semester, as follows:

First Semester

Italian Language (3)   ITAL 2011
Comprehension; translation from and into Italian; prose composition; conversation.

Italian Language and Literary Culture (1)   ITAL 2012
The external (non-technical) history of the Italian language and of the cultural forms in which it manifested itself between its origins and the Renaissance.

Italian Literary Texts (2)   ITAL 2013
Including Machiavelli (Mandragola), Calvino (Il sentiero dei nidi di ragno), Ginzburg (Lessico famigliare) and Sciascia (Il contesto).

Second Semester

Italian Language (3)   ITAL 2021
Comprehension; translation from and into Italian; prose composition; conversation.

Italian Language and Literary Culture (1)   ITAL 2022
The external (non-technical) history of the Italian language and of the cultural forms in which it has manifested itself between the Renaissance and the present.

Italian Literary Texts (2)   ITAL 2023
Including Dante (*Inferno*), Petrarch (lyric poetry) and Manzoni (*I promessi sposi*).

Final Year   (ITAL 3000)

Six units are taken in each semester, as follows:

First Semester

Italian Language (3)   ITAL 3011
Comprehension; translation from and into Italian; prose composition; conversation.

Aspects of Italian Cultural History (3)   ITAL 3012

Including Dante (*Purgatorio*), Ariosto *(Orlando furioso),* Machiavelli (political writings), and one optional area of study to be selected from the following:

> Italian Syntax
> The Renaissance in the Kingdom of Naples
> Poetry and Drama in the Operatic Theatre
> Twentieth-century 'Insular' Historical Fiction
> Ungaretti and Montale

These optional elements are not necessarily all available in any one year.

Second Semester

Italian Language (3)   ITAL 3021

Comprehension; translation from and into Italian; prose composition, conversation.

Aspects of Italian Cultural History (3)   ITAL 3022

Including eighteenth and early nineteenth-century literature (Goldoni, Alfieri, Foscolo), Modernist fiction, and one optional area of study to be selected from the following:

> Italian Sociolinguistics
> Dante, Paradiso
> Leopardi
> Selected Writings of Luigi Pirandello
> Selected Twentieth-century Women Writers

These optional elements are not necessarily all available in any one year.

Latin

<div align="right">

Second Year
Mode A (LAT 2000)

</div>

Deemed equivalent to twelve units

Latin Literature: From Republic to Empire   **LAT 2002**
(each of the following courses is taught by weekly reading classes throughout one semester)

(a) Introduction to Roman Epic: Virgil's *'Aeneid'*
The course aims to explore the language and the poetic technique of the most representative writer of Roma epic poetry: Virgil, *Aeneid* 8 (the future site of Rome) will form the core of the course. In addition students will read *Aeneid* 2.

(b) The Poetry of Horace
This course serves as an introduction to Horace as a lyric poet through a reading of *Odes* Book 3 (ed. Goold & Whiteley, BCP). The poems of this book reveal Horace's own persona, his relationship to earlier poets and his public commitment to an ideal of Roman Society. Special attention will also be paid to Horace's poetic craftmanship.

(c) Foundations of Rome: Livy and Augustus
The course text is Livy Book 1 (ed. Goold & Whiteley, BCP). In addition students will read the *Res Gestae Divi Augusti.*

Translation Skills   **LAT 2003**
The aim of this course is to help students to become proficient in translating Latin. The course begins with a revision of basic Latin grammar; two classes per week throughout both semesters are devoted to the translation and discussion of Latin prose/verse passages.

Roman History: The Early Roman Empire   **LAT 2004**
The Roman Empire from the assassination of Caesar to the natural death of Hadrian with particular emphasis on the role of Augustus in the establishment of the imperial system. The course explores the empire through a series of themes, such as the Senate, the Army, the People, Italy, Rome's subjects, and the Imperial Cult. Among the evidence used will be Tacitus' *Annals*, Suetonius' *Lives of the Caesars*, and selected inscriptions.

<div align="right">

Mode B (LAT 2001)

</div>

Deemed equivalent to twelve units

Latin Literature: From Republic to Empire   **LAT 2005**
(each of the following courses is taught by weekly reading classes throughout one semester)

(a) Introduction to Augustan Poetry
The course aims to explore the language and the poetic technique of the most representative writer of Roman epic poetry: Virgil, *Aeneid* 8 (the future site of Rome) will

form the core of the course. In addition students will read a selection of Horace's *Odes* from *Wheelock*.

(b) Poetry of Passion
Catullus, a minor Roman nobleman of the first century BC, rejected a life of political service for the life of leisure and poetry. His works provide the first example in Latin literature of the personal love poem. The course text is *Catullus: the Shorter Poems* (ed. Godwin, Aris & Phillips). In addition students will read selections from Martial taken from *Wheelock's Latin*.

(c) Foundations of Rome: Livy and Augustus
Livy Book 1 (ed. Goold & Whiteley, BCP). In addition students will read the *Res Gestae Divi Augusti*.

Translation skills LAT 2006
The aim of this course is to help students to become proficient in translating Latin. The course begins with a revision of basic Latin grammar; two classes per week throughout both semesters are devoted to the translation and discussion of Latin prose/verse passages.

Roman History: the Early Roman Empire   LAT 2007
This course covers the history of the Early Roman Empire, from the death of Julius Caesar in 44 BC to the end of the reign of Hadrian in AD 138. It explores the fascinating political history of the early emperors, and uses a range of ancient sources, especially Suetonius' *Lives of the Caesars*, to examine various historical themes, including: the army, the imperial aristocracy, wealth and social status, the Roman arena.

Final Year (LAT 3000)
Modes A and B

Deemed equivalent to twelve units

Latin Literature: The Age of Empire   LAT 3001
(each of the following courses is taught by weekly reading classes throughout one semester)
(a) Opposition to Empire
This course is centred on Tacitus' *Agricola*, in which one Briton describes the Romans thus 'They plunder the whole world: and having exhausted the land, they now scour the sea. To robbery, murder and pillage, they give the false name of Empire, and when they make a wilderness they call it Peace.' This very modern sounding criticism of imperialism comes from the pen of one of the most cynical, biting and intelligent writers there has been.

(b) Belated Epic: Ovid and Lucan
Ovid *Metamorphoses* 3 & 4 (ed. Hollis OUP). In addition students will also read Lucan *Civil War* 7 (ed. Dilke BCP).

(b) Literature of Disengagement: Seneca and Juvenal
Seneca *Letters* (ed. Costa, BCP). In addition students will also read Juvenal *Satires* 1,3 and 10 (ed. Rudd and Courtney, Bristol Classical Press).

Translation skills LAT 3002

The aim of this course is to help students to become proficient in translating Latin. The course begins with a revision of basic Latin grammar; two classes per week throughout both semesters are devoted to the translation and discussion of Latin prose/verse passages.

In addition to the above courses, students will be required to choose one from the following list of courses or, subject to approval by the Head of School, a student may substitute an extended essay (LAT 3004) of approximately 12,000 words.

LAT 3016	Spartacus and the Slave Wars
LAT 3022	Epic after Virgil: Ovid and Lucan
LAT 3024	Power, Politics and Parody in Ancient Rome
LAT 3029	Special Subject
LAT 3031	Roman Wall Painting

Linguistics

Linguistics is concerned with the study of language, what are its building blocks and how they are arranged; how it evolves through time; how it is acquired; and how it is used. Because language pervades most aspects of human behaviour, Linguistics inevitably overlaps (or interfaces) with a broad range of subject areas in Arts, Humanities and Sciences, ranging from (Foreign) Languages and Cultures to Psychology, Philosophy and Sociology, to Computer Science, Cognitive Science, Speech Therapy and others.

The School of Irish, Celtic Studies, Irish Folklore and Linguistics aims to offer courses in most major areas in Linguistics, and in as many interface areas as possible. This aim is partly reflected in the organisation of courses into Core courses and Options in the Second and Final Years. The Core courses ensure that students have the necessary knowledge of the building blocks of language and how they are structured to appreciate the issues that arise at the interface levels, e.g. how language interacts with other cognitive functions, social norms and cultural differences, the outside world, and so on.

The Stage 1 programme consists of introductory courses designed for students with little or no prior knowledge of Linguistics. Collectively, they are intended to cover as many core and interface areas as possible, with the aim of providing students with a good overview of the subject.

The Second and Third Year programmes consist of Core Courses and Options. In each year, students are expected to take FOUR core courses (two in each semester) and TWO options (one in each semester). This gives a total of twelve course units per year (six course units in each semester). All core courses and options are worth two course units each, and take place over one semester. In choosing their options, students must take into consideration information relating to prerequisites and distribution over the two semesters. Students must consult the School Handbook for additional information, including availability and overlap.

Note: *The provision of a course in any particular year is subject to the availability of staff and, in the case of an option, to its selection by a sufficient number of students. Certain optional courses may only be available timetable permitting.*

Second Year (LING 2000)

Courses

LING 2010	Phonology
LING 2011	Syntax II
LING 2018	World Englishes
LING 2015	Language Evolution
LING 2012	Semantics
LING 2013	Language Variation and Change
LING 2016	Language in Mind
LING 2017	Minority and Endangered Languages

Please consult School Booklet for semester and course descriptions

Final Year (LING 3000)

Courses

LING 3012	Morphology
LING 3013	Pragmatics
LING 3015	Language Impairment
LING 3017	Second Language Acquisition
LING 3010	Phonology III
LING 3011	Syntax III
LING 3014	Language, Power and Identity
LING 3016	First Language Acquisition

Please consult School Booklet for semester and course descriptions

Logic

NOTE: Logic will not be available as a subject in the session 2005/2006.

Mathematical Studies

Calculus of Several Variables (3)   MST 2001

Real-valued functions of two real variables — partial derivatives, critical points, linear approximation, Lagrange multipliers, vector-valued differentiation, chain rule.

Curves — curvature, quadratic approximation.

Complex analysis — complex numbers, de Moivre's theorem, Cauchy-Riemann equations, complex integration.

Line integrals, Fundamental theorem of calculus, double integrals, co-ordinate systems, Green's theorem.

Algebraic Structures (3)   MST 2013

Sets and logic, equivalence relations, binary operations. Fields — axioms, examples, field of complex numbers, elementary properties of complex numbers. Rings — axioms, examples, units, division rings, integral domains. Polynomials — basic facts, roots, fundamental theorem of algebra. Quaternions — conjugates, norms. Groups — examples, basic facts, cosets, Lagrange's theorem.

Introduction to Analysis (3)   MST 2014

The real numbers — axiom of completeness. Sequences and series — limits, monotone convergence theorem, infinite series, Bolzano-Weierstrass theorem, Cauchy criterion, power series, Taylors theorem.

Linear Algebra and Computer Mathematics (3)   MST 2015

Linear algebra — general vector spaces, subspaces, linear independence, basis and dimension, co-ordinates, change of basis, eigenvalues and eigenvectors, diagonalisation of matrices, complex vector spaces, inner products, lengths and angles, orthonormal bases, the Gram-Schmidt process.

Computer mathematics — using a computer, designing a programme, structured programming, mathematical applications.

Students take the first three courses below and two of the remaining three courses.

Analysis (3)   MST 3013

Metric Spaces — definition and examples, continuity, convergence, completeness, contraction mapping principle, applications, compactness, connectedness. Complex analysis — differentiability, complex line integrals, Cauchy's theorem, Cauchy's Integral formula, Cauchy's estimates.

Algebra and Applications (3)   MST 3014
Applications of groups and fields including an introduction to Galois theory. Coding and Cryptography.

Differential Geometry (2)   MST 3021
Calculus in n-space, level sets, tangent spaces, Lagrange multipliers, maxima-minima on open sets. Curves in 3-space, Frenet-seret equations, line integrals. Parametrized surfaces in 3-space, surface area, surface integral. Geometry of surfaces in R^3 — Gaussian and normal curvature, geodesics.

History of Mathematics (2)   MST 3022
Topics chosen from Greek mathematics, geometry, algebra and analysis, cartesian geometry, non-euclidian geometry, the role of mathematics in the modern world.

Financial Mathematics (2)   MST 3024
Effective and nominal rates of interest, force of interest, present values, the equation of value and the yield on a transaction, annuities, loan schedules, interest and annuities payable p-thly, net present values and internal rate of return.

Differential Equations via Computer Algebra (2)   MST 3025
A computer-lab-based course investigating the solutions of differential equations using symbolic computation.

Mathematics

Second Year (MATH 2000)

Second Year Honours courses consist of the following list:

MATH 2001	Vector Spaces and Linear Transformation (2)
MATH 2002	Advanced Linear Algebra (2)
MATH 2003	Metric Spaces (2)
MATH 2004	Functions of Several Variables (2)
MATH 2005	Number Theory and Group Theory (2)
MATH 2006	Introduction to Analysis (2)

Final Year (MATH 3000)

MATH 3001	Field Theory and Galois Theory (3)
MATH 3002	Ring Theory (3)
MATH 3003	Measure Theory (3)
MATH 3004	Complex Variable Theory (3)
MATH 3005	Differential Geometry (3)
MATH 3006	Probability and Statistics (3)
MATH 3007	Group Theory (3)
MATH 3008	Special Topics (3)

Notes for Final Year Students:

- Students take four courses (twelve units).
- A student's choice of courses is subject to School approval.

Mathematical Physics Studies

Second Year (Mode I – MPST 2100)
(Mode II - MPST 2200)

Methods A (3)   MPST 2110

Vector Calculus: Vector differentiation (Frenet-Serret formulae). Directional derivatives, Grad, Div, Curl. Vector integration (line, surface, volume integrals). Integral Theorems (Divergence and Stokes' theorem). Grad, Div and Curl in orthogonal curvilinear coordinates. Variational problems, Lagrange multipliers.

Calculus of Variations: Euler's equation, geometric examples, extension to higher number of variables, conditional variation.

Mechanics and Special Relativity (3)   MPST 2120

Mechanics: Dynamics of rigid bodies, rotating earth, spinning top, moments of inertia, principal axes, Euler's equations of motion.

Special Relativity: Inertial frames, Lorentz transformations, space-time, tensors, relativistic mechanics, energy-momentum conservation.

Analytical and Quantum Mechanics (3)   MPST 2130

Analytical Mechanics: Lagrange's equation, variational principles. Small oscillations, normal modes. Hamilton's equations, canonical transformations, Poisson brackets.
Quantum Mechanics: Introduction, Postulates of Quantum Mechanics, One-dimensional examples: Potential well and harmonic oscillator, the Heisenberg uncertainty principle, Quantum tunnelling.

Ordinary Differential Equations (3)   MPST 2140

Analytical Methods: Existence of solutions. Linear differential equations: linearly independent solutions, dimensions of solution space, Wronskians, Green's functions. Singular points. Solution in series.

Numerical Methods: Runge-Katta methods. Adaptive techniques. Applications to satellite motion, the three-body problem and the Lorenz model.

Notes for Second Year Students

- All students take the above courses.
- Mode I students in addition take *either* MST 2001, 2013, 2014 and 2015 *or* MATH 2001-2006.

Methods B (2.4)   MPST 3111

Complex Variables: Cauchy-Riemann equations, singular points. Complex integration (Cauchy's theorem, line integrals). Taylor and Laurent series. The Residue Theorem.

Euclidean Spaces: Convergence, Bessel's inequality, Parseval's equality. Fourier series (Piecewise continuous functions, Riemann-Lebesgue lemma, Weierstrass approximation theorem, Pointwise convergence). Orthogonal series of polynomials (Legendre polynomials, Hermite polynomials, Laguerre polynomials, Bessel functions).

Methods C (2.4)   MPST 3120

First order partial differential equation. Second order linear partial differential equations – classification, uniqueness, stability. The wave equation, diffusion equations and Laplace's equation. Separation of variables, Laplace and Fourier transforms. Green's functions. Perturbation methods.

Thermal and Statistical Physics (2.4)   MPST 3130

Thermodynamics: Laws of thermodynamics, temperature, entropy, Clausius's theorem, Maxwell's relations.

Kinetic Theory: Maxwell's distribution, the Boltzmann equation, Maxwell-Boltzmann distribution.

Introduction to Statistical Mechanics: The microcanonical, canonical and grandcanonical ensembles, the classical ideal gas, quantum statistical mechanics, the ideal Fermi and Bose gases, the imperfect Fermi gas.

Potential Theory (2.4)   MPST 3141

Electrostatics: electrostatic potential; Gauss's law; Poisson's equation; dielectrics; electrostatic energy.

Magnetic fields due to steady currents: vector potential; Ampère's circuital law; magnetic materials.

Electromagnetic Theory (2.4)   MPST 3151

Maxwell's equations. Energy and momentum: Poynting vector. Plane waves in non-conducting and conducting media. Wave guides. Radiation from bounded sources. Liénard-Wiechert potentials. Relativistic formulation of electromagnetic theory.

Quantum Mechanics (2.4)   MPST 3160

Hilbert spaces, Hermitian and unitary operators, observables, probability measures, spectra measures. Postulates of quantum mechanics, uncertainty principle, harmonic oscillator, creation and annihilation operators, angular momentum, hydrogen atom. Perturbation theory and Rayleigh's variational principle. WKB approximation. Time evolution in the Schrödinger picture and Heisenberg picture.

Fluid Mechanics (2.4)   MPST 3171

Representation of fluid flow, elementary physical considerations, Stokes' analysis. Velocity potential for irrotational flows, stream functions for incompressible flows. Navier Stokes' equations. Inviscid flow equations, motion of a sphere through an incompressible fluid, 2D incompressible flows, conformal.

Dynamical Systems and Chaos (2.4)   MPST 3180

Phase portraits, flows and evolution.

Linear systems: Classification of linear systems, phase portraits of linear systems.

Non-linear systems in the plane: Local and global behaviour, fixed points, linearization, stability of fixed points, limit points and limit cycles, Poincaré-Bendixson theory.

Non-linear systems in higher dimensions: hyperbolic and non-hyperbolic fixed points, closed orbits, attracting sets and attractors. Chaotic orbits.

Special Topics (4.8)   MPST 3190

Notes for Final Year students

- Mode II students take MPST 3111, MPST 3130, MPST 3160, MPST 3171 and *either* MPST 3120 *or* MPST 3180.
- Mode I students take all the above courses.

Music

For details of courses in Music as a subject for the BA (Honours) Degree, as well as for courses leading to the Degree of BMus, see separate booklet Music.

Second Year (MUS 2000)

Courses (deemed equivalent to twelve units) are available.

Final Year (MUS 3000)

Courses (deemed equivalent to twelve units) are available.

Philosophy

Second Year (Mode I – PHIL 2100)
(Mode II – PHIL 2000)

The Second Year Philosophy course provides a deeper treatment of the history of philosophy and of selected philosophical problems. Students will study the development of Western philosophy from Plato and Aristotle through the Medievals to Kant and Hegel. Texts of Plato, Aristotle, Aquinas, Hume, Kant, Hegel, Kierkegaard and Nietzsche

will be read and discussed. In addition, there are courses in moral philosophy, aesthetics, logic, metaphysics, philosophy of religion etc. The course aims to develop critical reasoning skills and a deeper sense of the intellectual formation of Western culture.

Some of the following courses will be offered:

PHIL 2001	The Rationalists (1)
PHIL 2002	Aesthetics (1)
PHIL 2003	The Enlightenment (1)
PHIL 2004	Philosophical Anthropology (1)
PHIL 2005	Philosophy of Imagination (1)
PHIL 2007	Medieval Philosophy (1)
PHIL 2008	Philosophy of Being I (1)
PHIL 2010	Propositional Logic (1)
PHIL 2012	Introduction to Semiotics (1)
PHIL 2013	Modern Moral Philosophy (1)
PHIL 2014	Philosophy of Religion (1)
PHIL 2015	Classical Theories of Knowledge (1)
PHIL 2020	The Philosophy of Whitehead (1)
PHIL 2021	Dilemmas (1)
PHIL 2022	Contemporary Political Philosophy (1)
PHIL 2023	The Philosophy of Time (1)
PHIL 2024	Greek Tragedy (1)
PHIL 2025	Seminars (2)
PHIL 2026	Essays and Tutorial Assessment (2)
PHIL 2027	Contemporary Moral Philosophy (1)
PHIL 2028	Pragmatism and Epistemology (1)
PHIL 2029	Ethics (1)
PHIL 2030	The Moral Foundations of Law (1)
PHIL 2031	Kant's Critical Philosophy (1)
PHIL 2032	Empiricism and Naturalism (1)
PHIL 2033	Problems of Philosophy II (1)
PHIL 2034	Existentialism and Marxism (1)
PHIL 2035	Perception and Imagination in Phenomenological Philosophy (1)
PHIL 2036	Contemporary Ethical Theory (1)
PHIL 2037	Morality and Civilization (1)
PHIL 2038	The Politics of Pleasure: Power and Discourse (1)
PHIL 2039	Contemporary French Philosophy (1)
PHIL 2040	Kant's Critique of Pure Reason (1)
PHIL 2041	Issues in the Philosophy of Mind (1)
PHIL 2042	Philosophy and Nature (1)
PHIL 2043	Contemporary Approaches to Philosophy (1)
PHIL 2044	Marxism and Existentialism (1)
PHIL 2045	Philosophy of Language (1)
PHIL 2046	Two Empiricists and a Rationalist (1)
PHIL 2047	Philosophy of Mind (1)
PHIL 2048	Selected Topics in Philosophical Anthropology (1)
PHIL 2049	Philosophy as Love of Wisdom (1)

PHIL 2050	Philosophy of Action (1)
PHIL 2051	Kant II: Morality and Aesthetics (1)
PHIL 2052	Introduction to the Philosophy of History
PHIL 2053	Scepticism
PHIL 2054	Selected Topics of Religion
PHIL 2055	Towards a Philosophy of Tragedy
PHIL 2056	The Empiricists
PHIL 2057	Ancient Philosophy
PHIL 2058	Democracy and Difference
PHIL 2059	The Philosophy of Henri Bergson
PHIL 2060	Selected Problems in Phenomenology

Notes for Second Year Students

- Students for the BA Mode II must complete twelve units (or equivalent in Second Year) through a combination of required courses and selected options. Required courses and options will be specified at the beginning of the session. Candidates for the BA Mode I (Philosophy) must complete twenty-four units (or equivalent).

- The courses on offer in each academic year will be posted at the beginning of the session. The provision of a course in any particular year is subject to the availability of staff and, in the case of an option, its selection by a sufficient number of students. Courses additional to those listed may be provided in a particular year.

- Students in Second Year Philosophy must register with the School for tutorials and must submit a number of essays during the academic year. Tutorial work and essay writing will be assessed for examination purposes.

- Students following the Mode I course may take a course (in an area related to Philosophy) in another School provided that the course is approved by the Head of the School of Philosophy, and permission to attend the course is granted by the Head of the other School involved. Adequate notification must be given to the Schools concerned in order to arrange assessment of the student's work in the course.

Final Year   (PHIL 3100 – Mode I)
(PHIL 3000 – Mode II)

The Final Year Philosophy course provides an intensive study of some major philosophical texts and deeper study of philosophical problems and traditions. Special attention is given to contemporary philosophical issues and approaches, especially to Contemporary Continental Philosophy and to Analytic Philosophy in the Anglo-American tradition.

Final Year Mode II students choose twelve course units, comprised of required courses and selected options. Mode I students, in addition to their course work, are required to undertake a research project and write a minor thesis (the BA thesis) on a topic agreed with the Head of School, and supervised by a member of staff.

Some of the following courses will be offered:

PHIL 3001	Philosophy of Mind (1)
PHIL 3002	Philosophy of Being II (1)
PHIL 3003	Analytic Philosophy (1)
PHIL 3004	Phenomenology to Deconstruction (1)
PHIL 3005	Aesthetics II (1)
PHIL 3006	Philosophy of Religion (1)
PHIL 3008	Philosophy of Science (1)
PHIL 3009	Structuralism and Hermeneutics (1)
PHIL 3010	Predicate Logic
PHIL 3012	Advanced Logic (1)
PHIL 3013	Philosophy of Religion (1)
PHIL 3017	Contemporary American Philosophy (1)
PHIL 3018	Philosophy of Music (1)
PHIL 3019	Aquinas' Philosophy of God (1)
PHIL 3020	Philosophical Anthropology (1)
PHIL 3021	Critical Theory (1)
PHIL 3022	Seminars (2)
PHIL 3023	Mode I Project (2)
PHIL 3024	Essays and Tutorial Assessment (2)
PHIL 3025	German Philosophy (1)
PHIL 3026	Contemporary Moral Theories (1)
PHIL 3027	Contemporary Issues in Philosophy (1)
PHIL 3028	Kant's Critique of Judgement and its Significance (1)
PHIL 3029	Nineteenth-Century German Philosophy (1)
PHIL 3030	Epistemology (1)
PHIL 3031	Introduction to Phenomenology (1)
PHIL 3032	Post-Kantian German Philosophy (1)
PHIL 3034	Time and Intuition in Heidegger and Levinas (1)
PHIL 3035	Post-Kantian German Philosophy (1)
PHIL 3036	Hegel's Phenomenology of Spirit (1)
PHIL 3037	Realism and Anti-Realism (1)
PHIL 3038	Philosophy of Narrative and History (1)
PHIL 3039	C.I. Lewis and Scheme Content Dualism (1)
PHIL 3040	Twentieth-Century Aesthetics (1)
PHIL 3041	Contemporary Approaches to Philosophy II: Language, Meaning and Mind (1)
PHIL 3042	Truth (1)
PHIL 3043	Contemporary Analytical Metaphysics (1)
PHIL 3044	Phenomenology and Deconstruction (1)
PHIL 3045	Theories of Knowledge (1)
PHIL 3046	Contemporary Continental Philosophy (1)
PHIL 3047	Problems in Kant
PHIL 3048	Time, Change and Causation
PHIL 3049	Philosophy of Otherness
PHIL 3050	Phenomenology of Desire
PHIL 3051	Guy Debord and the Situationist International

PHIL 3052   Phenomenology of Fiction

Notes for Final Year Students
- Students for the BA Mode II must complete twelve units (or equivalent), through a combination of required courses and selected options. Required courses and options will be specified at the beginning of the session. Candidates for the BA Mode I must complete twenty-four units (or equivalent).
- The courses on offer in each academic year will be posted at the beginning of the session. The provision of a course in any particular year is subject to the availability of staff and, in the case of an option, its selection by a sufficient number of students. Courses additional to those listed may be provided in a particular year.
- Students in Third Year Philosophy must register with the School for tutorials and must submit a number of essays during the academic year. Tutorial work and essay writing will be assessed for examination purposes.
- Third Year students may take a course (in an area related to Philosophy) in another School, provided the course is approved by the Heads of Schools concerned and the student is accepted by the Head of School offering the course. No more than three units may be taken outside the School of Philosophy. Adequate notification must be given to the Schools concerned in order to arrange assessment of the student's work in the course.

Planning and Environmental Policy

Planning and Environmental Policy must be taken with Geography. Please see the UCD website for details of this new BA subject:

http://www.ucd.ie/horizons/programmes/arts.html.

Politics

The subject Politics is concerned with the different political systems of the world – how they work, and what ideas underpin them. It has a number of sub-divisions:
- Political systems of particular countries
- Comparative politics
- International relations
- Normative political theory
- Research methods and the theory of science

One major area of Politics covers the study of political institutions and processes – governments, parliaments, elections, political parties, civil services, armies, pressure groups. It examines how they operate in different countries of the world, and makes comparisons across political systems. Building on descriptions of this kind, we can go on at a later stage to generalise about such issues as how political parties are managed and how voters typically cast their ballots.

The second major area is political philosophy. Here, fundamental questions are raised about politics and political ideas, for instance: What are the characteristics of a good political leader? What conception of freedom should be embodied in political life? What is the relationship between the state and society? These questions are studied largely through the works of historical and contemporary thinkers.

More information on the School of Politics and International Relations and the courses it offers is available on the UCD web-server at www.ucd.ie/politics/.

Second Year (POL 2000)

The academic objective of the Second Year programme is to develop students' basic understanding of political concepts in the areas of Political Theory, Comparative Politics and International Relations, to introduce them to the rudiments of research methodology within the discipline (including an introduction to computer-based data analysis techniques), and to develop their knowledge in some of the major sub-fields. Students take four compulsory courses:

POL 2001	Civic Republican and	
	Contractarian Political Thought	(2 units) Semester 1
POL 2002	Comparative Politics	(2 units) Semester 1
POL 2004	Introduction to International Relations	(1 unit) Semester 2
POL 2026	Issues in Political Research	(2 units) Semester 1

Students are required to take three optional courses selected from the following seven. Each has a value of one unit. The list may vary from year to year but the following seven courses were on offer in 2004/2005:

POL 2008	Law, Politics and Human Rights	(1 unit) Semester 2
POL 2014	Issues in Democratic Theory	(1 unit) Semester 2
POL 2027	Introduction to Statistics	(1 unit) Semester 2
POL 2028	Power, Discourse and Political Action	(1 unit) Semester 2
POL 2029	Globalisation and the	
	Changing Role of the State	(1 unit) Semester 2
POL 2030	Introduction to British Politics	(1 unit) Semester 2
POL 2031	End Game of the Communist System:	
	Challenges and Collapse	(1 unit) Semester 2

In addition, students attend compulsory tutorials (POL 2010). Assessment is based on project work, on exercises submitted electronically, on written examination papers at the end of the Second Semester and on tutorial attendance, class participation and essay writing.

Final Year (POL 3000)

The objective of the Final Year programme is to allow students to choose particular areas of specialism and to develop further their analytical skills. Students select four courses from the list of those on offer; each course is worth three units. The following courses were on offer in 2004/2005 and are subject to change:

POL 3001	Dynamics of European Integration	(3 units) Semester 1
POL 3006	Irish Electoral Behaviour	(3 units) Semester 2
POL 3010	Political Communication	(3 units) Semester 1
POL 3011	Politics and Nationalism	(3 units) Semester 1
POL 3013	Politics of the Northern Ireland Conflict	(3 units) Semester 2
POL 3014	State and Nation	(3 units) Semester 2
POL 3015	Politics of Multi Ethnic States	(3 units) Semester 1
POL 3018	Equality	(3 units) Semester 1
POL 3019	Political Liberalism	(3 units) Semester 1
POL 3026	Citizenship, Participation and Diversity	(3 units) Semester 2
POL 3027	Political Islam	(3 units) Semester 2
POL 3028	Regime Change and the Process of Democratisation in Eastern and Central Europe	(3 units) Semester 1
POL 3030	Integration, Fragmentation and the Global System	(3 units) Semester 2
POL 3031	Politics of Diaspora	(3 units) Semester 1
POL 3032	Political Change	(3 units) Semester 2
POL 3033	Economy, Civil Society and Ideology in Modern Political Thought	(3 units) Semester 2

Each course is confined to a single semester, and students take two courses in each semester. Tutorials are arranged by lecturers in a way that responds to the particular needs of the courses. Assessment is mainly by means of an examination at the end of the year but credit may be given for essay or project work in certain courses.

Psychology

NOTE: Psychology may only be taken beyond Stage 1 as a single Honours subject (Mode I: 35 places through denominated entry – DN054, 35 places for students who entered through DN012, on the results of the Stage 1 examination).

(N.B. For students entering Stage 1 from September 2005, progression to Second Year Mode I Psychology will only be available to those who enter through the CAO denominated entry DN054).

The numbers in brackets after course titles refer to the number of units comprising the course where one unit equals twelve hours.

Second Year

PSY 2001	Physiological Psychology (1)
PSY 2002	Psychopharmacology (1)
PSY 2003	Perception (1)
PSY 2005	Cognitive Development (1)
PSY 2006	Social and Emotional Development (1)
PSY 2007	Theories of Personality (1)
PSY 2008	Introduction to Social Psychology (1)
PSY 2009	Psychology of Language (1)
PSY 2010	Developmental Disabilities and Persons with Special Needs (1)
PSY 2011	Psychopathology (1)
PSY 2012	Philosophy of Mind (1)
PSY 2013	Psychological Statistics and Experimental Research Methods (2)
PSY 2014	Design and Application of Qualitative Research Methods (3)
PSY 2015	Laboratory Practicals in Psychology (8)
PSY 2016	Foreign Language (2) – optional course
PSY 2017	Recent Papers in Psychology (1)

Students are also required to attend tutorials and School seminars, and to submit essays. Practical work may also be required in certain courses.

Final Year (PSY 3100)

PSY 3001	Neuropsychology (2)
PSY 3002	Advanced Cognitive Psychology (2)
PSY 3003-5	Advanced Social Psychology (2)
PSY 3006	Theoretical Aspects of Self and Identity (1)
PSY 3007	Applied Psychology and Work (1)
PSY 3008	Language Acquisition (1)
PSY 3009	Interdisciplinary Perspectives on Human Development (2)
PSY 3010	Applied Issues in Developmental Psychology (1)
PSY 3011	Intelligence (1)[*]

---

[*] Course outline will be provided in Class.

PSY 3012	Debates in Psychology (1)
PSY 3013	Philosophical Psychology (1)*
PSY 3014	Advanced Psychological Statistics and Computer-Based Data Analysis (2)
PSY 3015	Research Project (5)

*Optional Courses***

PSY 3016	History and Psychology (1)
PSY 3018	Counselling and Psychotherapy (1)
PSY 3021	Comparative Psychology (1)
PSY 3023	Emotion and Mind in Psychology (1)
PSY 3025	Psychology and Crime (1)
PSY 3026	Culture and Psychology (1)
PSY 3027	Spirituality, Psychology, Psychotherapy (1)*
PSY 3028	Clinical Neuropsychology (1)*

Total number of units = **twenty-four units** (twenty-two core units and two elective units).

Notes for Final Year Students:
- Psychology students are required to undertake a research project which they write up as a minor thesis under the direction of individual academic staff members for the Degree examination. In addition, students are required to attend School research seminars and discussion groups.
- All courses are taught once a week for two semesters or twice a week for one semester.
- Some courses may not be offered in a particular year.
- Students should note that the course PSY 3014 *Advanced Psychological Statistics and Computer Based Data Analysis* will be assessed in a three-hour examination at the commencement of the Second Semester.

Sociology

Sociology is a popular choice for students who wish to discover more about the way we live our lives. We now live in an era of rapid social, economic and cultural change, and sociologists seek to understand and explain the causes and consequences of these changes. In spite of the pervasiveness of change, we take for granted what we are used to, regarding it as simple and obvious. In reality, social life is a complex network of interdependent human beings organised as families, communities, institutions and states. Sociology examines these networks and structures so that through awareness and critical reflection we can change, control or enhance them. This is achieved by studying not just the society in which we live now, but also the very different ways in which human beings have organised their lives together, elsewhere and in the past.

** Not all options may be offered in any given year.
* Course outline will be provided in Class.

Note: the provision of a course in any particular year is subject to the availability of staff and, in the case of an option, to its selection by a sufficient number of students. Certain optional courses may only be available timetable permitting. Courses additional to those listed may be provided in a particular year.

Students may also take, as options within Sociology, certain courses taught by other Schools, notably the School of Philosophy. The express permission of the Head of the School of Sociology and of the Head of the other relevant Schools is required.

Second Year (SOC 2000)

Students take 6 x 5 credit courses

Core Courses (taken by all students)

Sociological Theory I & II   **(5 credits)**   **SOC 2012**

This course aims to introduce students to modern debates in sociological theory. It examines both Symbolic Interactionism, through the work of Mead, Goffman and Blumer, and Functionalism, through the contributions of Parsons and Merton. Contemporary critiques of these approaches and their further elaboration are also addressed.

The second half of the course develops some of the issues raised in Sociological Theory I. It looks in some detail at Feminist approaches. Also examined are neo-Marxist perspectives, in particular the work of Gramsci and Lukás, as well as the Structuralism of Lévi-Strauss.

Research Design and Qualitative Methods   **(5 credits)**   **SOC 2008**

Topics that will be addressed include the planning and designing of research projects, sampling and selecting, validity and reliability, generating qualitative data, sorting and indexing qualitative data, and producing analyses and explanations which are convincing. Each student will attend bi-weekly lectures course and workshops. Lectures and workshops will be held on alternate weeks throughout the academic year and will be closely linked. In addition to the lecture course, each student will be required to carry out and complete two related research reports.

Seminars   **(5 credits)**   **SOC 2009**

Each student will attend a weekly seminar.

Work and Industry and Social Stratification   **(5 credits)**   **SOC 2014**

Most people spend most of their lives working. Many spend much of this time thinking about their leisure time. Why is work alienating for so many? What makes work rewarding rather than dull? Much thought has been put into organising our lives at work so why is our experience so often repetitive?

The second part of this course aims at introducing students to key theorists and some basic facts of social stratification. It first looks at concepts that originated in the classic tradition of Marx, Weber and Durkheim. In a second step it investigates how these concepts and their consecutive interpretation and advancement have been applied to the empirical environment in America (US) and Europe (UK and the Republic of Ireland). The

course will end with a discussion of the relationship between an assumed political equality (citizenship) and actual existing social inequality.

Optional Courses (students take two of the following optional courses):

Sociology of Family and Gender　　　　　　(5 credits)　SOC 2013

The institution of the family has been described as the most critical organisational context in any society. This course examines a range of sociological literature, both theoretical and empirical, on the family. Issues in defining the family are examined in the context of diversity in family forms and historical controversies about the family. A major focus of the course is change and the family, with particular reference to the economy and familial roles. There is a special emphasis on Irish studies of the family. Other themes in this course include those of violence in the family, mate selection and marital quality. The second half of the course offers an introduction to gender issues, especially in Sociology. Sociological theory is examined in the context of gender and the wider body of feminist thought. Specific topics include the social construction of male and female roles, work, the body, power, and the study of masculinity.

Sociology of Childhood　　　　　　　　　(5 credits)　SOC 2020

Sociology of Childhood: Perspectives on childhood-developmentalism, social constructionism, protectionism, dependency, generation and segregation/exclusion and their application to issues around daycare, economic matters, the role of the State, the impact of new family forms, children coping with adversity, play as children's culture or culture for children, doing research with children, childhood in Ireland.

Sociology of Race, Ethnicity and Culture　　　(5 credits)　SOC 2022

The first part of the course aims to introduce students to theories and policy oriented debates involving issues tied to migration and the increasing ethnic diversity of Irish and other western liberal democratic societies. This part of the course provides a socio-historical understanding of the concepts of race and migration before outlining the substantive flows of migration both to Europe and Ireland. Both labour migrants and asylum-seekers coming to Ireland will be discussed.

The second section of the course will look at how the contemporary influence of Hip-hop music culture has permeated all segments of society to the extent that Hip-hop or 'rap' music culture is not only the defining genre of today's youth culture but has become a means of articulating a worldwide experience. Hip-hop did not emerge in a historical vacuum even its lyrical contents are usually filled with social and political commentary that reflect the social and historical conditions inside of which it is situated. This course aims to examine the origins and historical conditions of possibility of Hip-hop music culture and the trajectory of its development up to recent times. The course will draw from sociology, history and cultural studies to explore the 'mongrel' conditions, issues and debates surrounding contemporary Hip Hop.

Nation and Empire　　　　　　　　　　(5 credits)　SOC 2023

This course examines the concepts of Nation and Empire and their relations in History and Sociological Thinking. It aims to introduce students to the main contents, causes, and historical contexts of these two concepts, and to discuss issues of Nation and Nationalism,

Empire, Imperialism, and Colonialism from a socio-historical perspective. Drawing from theoretical and historical texts, the course focuses on the analysis of Nation and Empire as imagined communities. It will not just look at the ways in which the idea of Nation connects people seemingly beyond existing social inequalities and divisions in societies, but also analyse how different Nations develop (superior) community-conscious, imperialistic ambitions, and politics of control, colonization, and oppression. In this context the course examines in how far the development of Nations as imagined communities is related to processes of social inclusion and exclusion, and the construction, inferiorization, and domination of 'Others'. Themes will include an introductory historical overview on Empires and Imperialist Orders; Ireland and the British Empire; Australia and the British Empire; the growth of the Modern Nation State in Europe; the invention of the white race, white supremacy and nationalism; key theories on Nation, Empire, Colonialism, and Imperialism.

Final Year (SOC 3000)

Students take 6 x 5 credit courses

Core Courses (taken by all students)

Sociological Theory III & IV   (5 credits)   SOC 3001
A central goal of this lecture course is to examine linkages between contemporary sociological theory and empirical social research. Contemporary theoretical advances within major sociological traditions are discussed and empirical case studies within these traditions are considered. In particular, issues dealing with agency and structure, as well as modernity, are raised.

Seminars   (5 credits)   SOC 3002
Each student will attend a weekly seminar.

Research Design and
Quantitative Research Methods   (5 credits)   SOC 3007
It is not necessary to be a mathematician or statistician to develop an understanding of quantitative data or how they can be analysed. Data analysis is not an alternative to 'Statistics' but has its own distinct meaning. Data analysis is concerned with making social researchers aware of the use, interpretation and evaluation of relevant data rather than a formal understanding of statistics. It is important to remember that data analysis should be a tool that you use to arrive at an understanding of the operation of social processes. The objective of this course is to ensure that students acquire practical research skills. Students will be introduced to the statistics package SPSS for Windows. It is intended that through learning technical skills, students will acquire a basic comprehension of the principles of statistical testing.

Optional Courses
Students will take three of the following optional courses. All optional courses will be taught in one semester only.

Governance in Society: I & II   (5 credits)   SOC 3042

Sociology has still not settled the question of the means whereby social cohesion or social order and patterned social behaviour is achieved. In response to this situation this course proposes that social life is a relatively orderly affair as a result of the processes and activities of governance in society. Governance is the proper activity of identities. Human societies are nested hierarchic structures of governance in which identity is recursively constituted at each level. As the individual is embedded in the group so too are the individual-groups embedded in the overarching survival unit. This course looks at the activities of governance at the two basic levels of identity: individual and organised social group. The third and most inclusive level of identity (survival unit=state society) which embraces these two is not covered in this course.

Governance and Society I (Sociology of Emotions): This course challenges the usual sociological approach to the problem of social order, which is based on mentalist or cognitivist presuppositions: values and norms are things that minds deal with. The course argues that the role of emotions and of affective bonds has been denied and neglected to the detriment of the entire sociological enterprise tout court. This course is organised around an explication of the master social emotions of pride and shame and examines their role in the regulation of social life and, specifically, social relationships. Topics covered are: the history of shame, social conformity, the role of emotions in work and the emotions and violence.

Governance and Society II   (Social Organisation): This course is not the standard introductory course to the Sociology of Organisations or Organisational Sociology as it is called. Its aim will be to present a number of new perspectives that have emerged in the field of social organisation in the last two decades. It will attempt to introduce the student to a new and hitherto neglected perspective of social organisational theory. Although incorporating many contributions from the fields of Industrial Sociology and organisation theory it also transcends these with new perspectives. The course will attempt to show that social organisation theory is a potentially fruitful field of sociological theory and research, at once both theoretical and 'applied', that is capable of illuminating many facets of contemporary society.

Health Illness and Society   (5 credits)   SOC 3044

This course is concerned with the relationship between society and matters of health and illness. Topics for discussion will include theoretical understandings of health and illness; how people define health and illness; health institutions and patterns of health and illness based on age, gender and class.

Comparative European
Societies and American Society   (5 credits)   SOC 3045

Comparative European Societies examines the politics and societies of Europe and in particular we focus on the making of contemporary Europe. Our discussion is focused on the evolution and operation of key European societal and political institutions, in different countries, from the 1960s onwards.

American Society: This part of the course aims at introducing students to current trends and discussions in American Sociology. By looking at six topics (Exceptionalism, Civil

Society and Politics, Community, Individualism and Social Capital, Multiculturalism and Pluralism, Urban Sociology, and Popular Culture) students will get an overall impression of the main developments in American society and politics and how the Social Sciences have tried to analyse and understand them.

Sociology of the Environment I & II   (5 credits)   SOC 3046

Sociology of the Environment I examines the relationship between society and the biophysical environment. It draws on constructivist, realist, Marxist and eco-feminist approaches; analyses the theory of 'risk society'; examines the consequences of economic globalisation for the ecosystem; discusses the development of environmental movements; and explores the role of the media in placing environmental issues on the public agenda.

Environmental Sociology II: The relationship between humanity and nature is central to a wide range of contemporary issues. This course looks at issues relating to people, animals, landscapes and eco-systems against the historical and evolutionary backdrop of biological anthropology. Topics include: Animal rights, wolf-introductions, GM agriculture, artificial eco-systems, synthetic wilderness, global warming, the sociology of pets, anti-roads protesters, hunt saboteurs, the ecology of human culture, the myth of the 'ecological Indian', the sociology of landscape, and 'Gaia'.

Political Sociology and
Sociology of Childhood   (5 credits)   SOC 3047

Political Sociology: 'What is power?' and 'Where is it exercised?' are two major questions in Political Sociology. The earlier sociological approach to the political tended to concentrate on the exercise of power by and within the state. New Political Sociology, however, looks for power throughout society. Thus, the question 'Who are we?' becomes a political question. In this course conceptualizations of power will be addressed, as will notions of political space, political action and identity. You will be introduced to debates about the more macro level of state, civil society and the public sphere, as well as the more micro and meso levels of identity and social movements.

Sociology of Childhood: Perspectives on childhood-developmentalism, social constructionism, protectionism, dependency, generation and segregation/exclusion and their application to issues around daycare, economic matters, the role of the State, the impact of new family forms, children coping with adversity, play as children's culture or culture for children, doing research with children, childhood in Ireland.

Body and Soul: Cultural Embodiment
and Transcendence   (5 credits)   SOC 3049

This module focuses on how what is said and done to the body is crucial to an understanding of culture and the way people know and understand themselves. Instead of the traditional focus on culture as shared values and beliefs, this module will concentrate on developing an understanding of culture and self in terms of spaces, discourses and practices. Emphasis will be given to what people do with and to their bodies as part of knowing, understanding, presenting themselves, developing their identity, and operating in everyday life. Particular attention will be paid to sexuality. The other focus of the course will be on the ways in which people have attempted to transcend the material reality of their conditions of existence, make contact with a

supernatural reality and, often as part of the attempt to attain salvation, live an ethical life. In this part of the course, particular attention will be paid to religion. The course will revolve around a mixture of theory and empirical references, many of which will come from Ireland.

Media and Society   (5 credits)   SOC 3051
Media Discourses between Dream Factory, System Advertisement, and Power

This course aims to explore how the Mass media dominates mental live in Modern Societies, while influencing people's life, views, emotions, desires, and understanding of the world. It will discuss in how far media culture supports the production of a large extend of cultural, racial, and national imagery with which we are familiar today.

The course introduces students to key concepts of Media Studies, and examines cultural systems as products - and conditioning dimensions of action. Drawing upon empirical and historical examples from the 'dream factory' (possibly Hollywood movies), and/or other media genres, we will engage critically with media discourses, and discuss the ways in which media culture advertises the existing system, while inducing people to conform to the established organisation and views of society. In this context, the course analyses social stereotypes carried and conveyed by the Media, and looks at cultural and media mechanisms that enable their expression. A major focus is the investigation of patterns of difference and discrimination (related to images of race, culture, nation, and gender) and their representations in the Mass Media. Topics covered will include: consumer culture and culture industry; media and politics; patterns of ownership, control and resistance; relation between culture- social structure - and action; intertextuality, content and discourse studies; ideological influences of the Media in promoting the societal system, and shaping images and stereotypes.

Notes for Second and Final Year Students
- The provision of a course in any particular year is subject to the availability of staff and, in the case of an option, to its selection by a sufficient number of students. Certain optional courses may only be available timetable permitting. Courses additional to those listed may be provided in a particular year.
- Students may also take as options within Sociology – timetable permitting – certain courses taught by other Schools, notably the School of Philosophy; the express permission of the Head of the School of Sociology and of the Head of the other relevant School is required.
- Optional courses listed above for the Third Year may from time to time be offered as options in the Second Year and *vice versa*.

Spanish

Students with no previous knowledge of Spanish, but who are reasonably well-qualified in other languages, may take up Spanish as beginners in the Stage 1 day course. Beginners are expected to have attained a level of competence comparable with non-beginners by the end of the course.

Note: Students of Spanish are normally expected to spend a total of at least three months in Spain (or another Spanish-speaking country) in the course of their undergraduate studies.

Second Year (SPAN 2000)

The purpose of the Second Year course in Spanish is to continue the development of the student's knowledge of the Spanish Language, and to develop further the four basic skills of aural comprehension, oral expression, reading and writing. The course further aims to present an overview of Hispanic Literature, from the medieval period to the present, on the basis of which more specialised options may be chosen in the Final Year of the course. Students are also introduced to Phonetics and Phonology and to Spanish written discourse.

Language

Spanish Language II   **(4 units)   SPAN 2010**

A year-long course comprising grammar, translation, reading, comprehension, oral and aural Spanish.

Expresión Escrita I   **(1 unit)   SPAN 2033**

En este curso de un semestre se trabajarán aspectos teóricos y prácticos que faciliten el desarrollo de los conocimientos lingüísticos del alumno.

Linguistics and Literature

Spanish Linguistics II: The Phonetics of Spanish   **(1 unit)   SPAN 2032**

A single-semester course offering a linguistic introduction to Spanish, concentrating on the Phonetics and Phonology of the modern language.

Medieval Literature I   **(1 unit)   SPAN 2075**

Poema de mío Çid, ed. Ian Michael (Castalia).

Golden Age Drama I   **(1 unit)   SPAN 2073**

Lope de Vega, *Fuenteovejuna* (Clásicos Castalia or Castalia Didáctica); Calderón de la Barca, *El alcalde de Zalamea* (Clásicos Castalia or Cátedra).

Cervantes I   **(1 unit)   SPAN 2074**

Miguel de Cervantes, Prologue, 'La Gitanilla', 'Rinconete y Cortadillo', 'El casamiento engañoso' and 'El coloquio de los perros' (Cátedra, 2 vols).

Spanish Romances   (1 unit)   SPAN 2076
(texts supplied)

Modern Verse I   (1 unit)   SPAN 2015
J. Guillén, *Cántico* (1928); L. Cernuda, *Un río, un amor*.

Modern Novel I: Anarchy and Utopia   (1 unit)   SPAN 2013
Ramón Sender, *Réquiem por un campesino español* (1953), Miguel Delibes, *El camino* (1950) (Destino).

Latin-American Literature 1   (1 unit)   SPAN 2016
Gabriel García Márquez, *La increíble y triste historia de la cándida Eréndira y de su abuela desalmada* (1977, Mondadori de Bolsillo); Jorge Luis Borges, *Ficciones* (1941/44, Alianza).

Tutorials   (1 unit)   SPAN 2041
A series of literature tutorial courses, each a semester in length, of which students choose two.

Notes for Second Year Students
- Students must accumulate twelve units over two semesters.
- Course SPAN 2010 is compulsory.
- Course PORT 2002 is available to day students of Spanish who attained an acceptable standard in the *language* component of the Stage 1 examination in Spanish. These students are exempt from certain literature courses as determined from year to year by the School.

Final Year (SPAN 3000)

Students must take courses to a total value of 12 units. Spanish Language III (SPAN 3010) is a compulsory element, taken in both semesters, and has a value of 4 units. The remaining 8 units are chosen from a series of options. Enrolment for these takes place at the beginning of both semesters. Options are usually 'capped' at 30 places.

Language

Spanish Language III   (4 units)   SPAN 3010
Comprising grammar, translation, oral and practical Spanish.

Options

Language and Linguistics

La Expresión Escrita II   (2 units)   SPAN 3080
Un curso en el que se trabajará esta destreza desde un enfoque comunicativo.

Spanish Linguistics III: Historical Phonology   (1 unit)   SPAN 3083
An investigation of the evolution of the Spanish sound system out of Vulgar Latin.

Semántica (2 units) SPAN 3032
Texts will be supplied.

Medieval and Golden Age Spain

Medieval Literature II: Love and Death
in the Late Fifteenth Century (2 units) SPAN 3084
F. de Rojas, *La Celestina* (Cátedra); Jorge Manrique, *Coplas a la muerte de su padre* (Castalia Didáctica); further texts to be supplied.

Golden-Age Drama II (2 units) SPAN 3071
Lope de Vega, *El caballero de Olmedo* (Castalia); *El castigo sin venganza* (Castalia or Cátedra); Tirso de Molina, *El burlador de Sevilla* (Clásicos Castellanos or NEW Austral); Ruiz de Alarcón, *La verdad sospechosa* (Clásicos Castellanos or NEW Austral); Calderón, *La vida es sueño* (Castalia Didáctica or Castalia); *El médico de su honra* (Castalia).

Cervantes II: Inventing the Novel? (1 unit) SPAN 3074
Miguel de Cervantes, *Don Quijote de la Mancha*, Part 1 (any edition).

Golden-Age History (1 unit) SPAN 3085
Elliott, *Imperial Spain 1496-1716* (Penguin).

Nineteenth-Century Literature

Romantic Drama (1 unit) SPAN 3033
Duque de Rivas, *Don Álvaro* (Cátedra); J.E. Hartzenbusch, *Los amantes de Teruel* (Castalia); José Zorrilla, *Don Juan Tenorio* (Castalia).

Nineteenth-Century Realism (1 unit) SPAN 3041
Emilia Pardo Bazán, *Los Pazos de Ulloa* (Alianza); Juan Valera, *Pepita Jiménez* (Castalia).

Twentieth-Century Spanish Literature

Modern Verse II: Poetry of Antonio Machado (2 units) SPAN 3067
Machado, *Poesías completas* (Austral).

Modern Verse III: Poet in New York:
Federico García Lorca (1 unit) SPAN 3069
García Lorca, *Poeta en Nueva York* (Austral)

Modern Novel II: Novel under Franco (2 units) SPAN 3022
Cela, *La familia de Pascual Duarte* (Destino); Matute, *Primera memoria* (Destino); Delibes, *Cinco horas con Mario* (Destino); Fernández Santos, *Los bravos* (Destino).

Fiction, History and Story in Contemporary Spanish Narrative:
Writing and Rewriting the Past (2 units) SPAN 3025

Luis Martín-Santos, *Tiempo de silencio*; Educardo Mendoza, *La verdad sobre el caso Savolta*; Javier Cercas, *Soldados de Salamina*.

Modern Novel IV: A Woman's World:
The Fiction of Carmen Martín Gaite (2 units) SPAN 3086

Entre visillos,El Valneario,El cuarto de atrás, Nubosidad variable.

Twentieth-Century Latin-American Literature

Latin American Indigenous Novel (2 units) SPAN 3089

José María Arguedas, *Los ríos profundos* (Bristol Classical Press); Rosario Castellanos, *Balún Canán (Fondo de Cultura Económica), Oficio de tinieblas* (Penguin).

Mexican Feminist Writing (1 unit) SPAN 3087

Rosario Castellanos, *El eterno femenino (Fondo de Cultura Económica), Judith y Salomé: poemas dramáticos.*

Latin-American Literature II (2 units) SPAN 3063

Vargas Llosa, *La ciudad y los perros* (Seix Barral); Fuentes, *La muerte de Artemio Cruz* (Cátedra); García Márquez, *Cien años de soledad* (Cátedra); Cortázar, *Todos los fuegos el fuego* (Pocket/Edhasa).

Notes for Final Year Students

- Students must accumulate twelve units over two semesters.
- Course SPAN 3010 is compulsory.
- Choice and combination of non-language courses will be made after consultation with the School of Languages, Literatures and Film.
- Course PORT 3002 (two units) is available to day students of Spanish who attained an acceptable standard in the language component in both Spanish and Portuguese in the Second Arts examination.
- The School of Languages, Literatures and Film does not guarantee the availability of all courses in any given year.

Portuguese

Portuguese is at present available only to students of Spanish as an option in Second and Final Year. To qualify for admission to Portuguese courses, students must have achieved an acceptable standard in the *language* components of the Stage 1 Examination in Spanish.

Portuguese I (2 units) **PORT 2002**

A year-long course comprising grammar, translation, reading comprehension, oral and aural Portuguese. Portuguese may be studied in place of certain literature courses as stipulated by the School.

Final Year (PORT 3000)

Portuguese II (2 units) **PORT 3002**

A continuation of PORT 2002. A year-long course comprising grammar, translation, reading comprehension, oral and aural Portuguese.

Literature in the Portuguese-Speaking World (1 unit) **SPAN 3091**

Fernando Pessoa (text provided); João Guimarães Rosa, *Primeiras estórias* (Nova Fronteira); Clarice Lispector, *Laços de família* (Rocco).

Contemporary Portuguese Literature (1 unit) **SPAN 3092**

Texts to be announced.

Statistics

Second Year (STAT 2000)

Statistical Theory I: Probability (2 units) **STAT 2005**

Probability theory. Combinatorics. Random variables: univariate, bivariate and multivariate. Moment generating functions. Functions of a random variable. Standard probability laws.

Statistical Theory II: Statistical Inference (2 units) **STAT 2006**

(a) Estimation theory: Law of large numbers. Chebyshev Inequality. Central Limit theorem. Methods of moments and maximum likelihood. Point estimation and interval estimation.

(b) Hypothesis testing: Neyman Pearson Lemma. Likelihood ratio tests.

Statistical Theory III: Bayesian Statistics and Stochastic Processes (2 units) **STAT 2007**

Bayesian statistical inference. Stochastic processes. Poisson processes. Birth and death processes. Branching processes.

Statistical Methods I (2 units) STAT 2008

Simple linear regression. Hypothesis testing and inferences concerning the regression equation. Polynomial and multiple regression. Regression diagnostics and transformations. Selecting the best regression model.

Statistical Methods II (2 units) STAT 2009

One- and two-way analysis of variance. Fixed, random and mixed effects models. Contrasts. Interaction. Multiple comparison procedures. Introduction to experimental design. Nonparametric statistics. Introduction to generalized linear models.

Data Analysis and Statistical Software (2 units) STAT 2010

Data screening and cleaning. The SAS software package for data analysis.

Final Year (STAT 3000)

Data Analysis I (2 units) STAT 3011

Applied Statistics I (2 units) STAT 3012

Design and Analysis of Experiments. Complete Block Designs (Randomized Block and Latin Square Designs). Incomplete Block Designs. Factorial Designs. Confounding and Fractional Factorial Designs. Statistical Software.

Applied Statistics II (2 units) STAT 3013

Introduction to Sample Surveys. Contingency Table Analysis. Logistic Regression. Log-linear Models. Statistical Computing.

Time Series Analysis (2 units) STAT 3014

Characteristics of time series. Autocorrelation and cross-correlation function. Stationary time series. Autoregressive and moving average processes. Nonstationary time series. Model specification and estimation. Model diagnostics. Forecasting. Special topics.

Multivariate Analysis (2 units) STAT 3015

Random vectors. Multivariate Normal Distribution, Correlation and Regression. Hotelling's T^2 Statistic. Discriminant Analysis. Canonical Correlation. Principal Components Analysis. Multivariate Analysis of Variance.

Actuarial Statistics I (2 units) STAT 3016

Decision Theory. Loss Distributions. Risk Models. Run Off Triangles and Experience Rating Systems.

Actuarial Statistics II (2 units) STAT 3017

Ruin Theory. Bayesian Statistics. Credibility Theory. Introduction to Generalised Linear Models.

Survey Sampling (2 units) STAT 3018

Elements of the sampling problem. Simple random sampling. Stratified random sampling. Ratio estimation. Cluster sampling. Systematic sampling.

Quality Control and Reliability   **(2 units)**   **STAT 3019**
Aims of quality control. Acceptance sampling. Operating characteristic curves. Sampling schemes. Sampling by Variables. Control and Cusum charts.

Stochastic Processes I   **(2 units)**   **STAT 3022**
An introduction to the classification and simulation of stochastic processes. Discrete and continuous time models. Stochastic calculus.

Official Statistics   **(2 units)**   **STAT 3023**
Collection of official statistics including macro-economic, business, demographic and social statistics. Accessing official statistics and their applications. Estimation, imputation and seasonal adjustment.

Statistics and Visualization   **(2 units)**   **STAT 3024**
Descriptive statistical and graphical methods for displaying data. From data to information. Visualization and presentation of data. Aspects of multivariate analysis. Simulation, S-plus software.

Linear Models with Complex Structure   **(2 units)**   **STAT 3031**
Analysis of unbalanced data from surveys and experimental designs. Means model. Estimation of variance components in unbalanced mixed and random effect models. Methods for the analysis of repeated measures designs.

Topics in Biostatistics   **(2 units)**   **STAT 3032**
This course covers specialised applications of statistics in biology. Topics include the following: pharmaceutical statistics, ecological statistics, medical and epidemiological statistics.

Nonparametric Statistics   **(2 units)**   **STAT 3033**
Distribution-free statistics; statistics utilising counting and ranking; Wilcoxon statistics; Kruskal-Wallis statistic. Friedman statistic; Spearman's statistics; Permutation procedures; Power functions and asymptotic distribution. Nonparametric regression.

Survival Analysis   **(2 units)**   **STAT 3035**
Censoring. Life tables. Kaplan Meier estimate. Mantel-Haenzel statistics. Parametric methods. Cox's proportional hazards model. Goodness-of-fit.

Statistical Computing   **(2 units)**   **STAT 3036**
Fixed point and floating point arithmetics. A review of programming style. Random number generators. Monte Carlo applications. A review of maximum likelihood. Unconstrainted nonlinear optimisations. Accessing Fortran libraries.

Data Mining   **(2 units)**   **STAT 3040**

Notes for Final Year Students:
- Students are required to take twelve units, and the selection of courses is subject to School approval.
- All students must undertake a project in Data Analysis on Applied Statistics as prescribed by the School of Mathematical Sciences.

Welsh

No previous knowledge of Welsh is required. Students are encouraged to use the facilities available in the language laboratory for developing ability in spoken Welsh. In the Second and Final Years, visits are arranged to the University College of North Wales, Bangor.

Second Year (WEL 2000)

First Semester

Composition, Translation and Spoken Welsh I (1)　　　　**WEL 2001**
The course is designed to further the student's ability in literary Welsh and to introduce the spoken language.

Introduction to Medieval Welsh Prose I (1)　　　　**WEL 2002**
The study of an edited prose tale of the late medieval period.

Early Welsh Poetry I (1)　　　　**WEL 2003**
Selection from various early poetic genres.

Introduction to the Literature of the
　　　　　　　　Sixteenth to the Nineteenth Centuries (1)　　　　**WEL 2004**
The course includes selections from early modern free verse and prose selections from various translations of the Bible.

Modern Welsh Literature I (1)　　　　**WEL 2005**
Representative samples from the leading exponents of present-day Welsh literature.

Medieval Breton: Structure and Texts I (1)　　　　**WEL 2006**
The grammar of medieval Breton and selections from the prose and verse of the period.

Welsh Linguistics I (1)　　　　**WEL 2007**
An introduction to phonological and grammatical structure.

An Approved Author or Topic I (1)　　　　**WEL 2008**
The guided study of an author or topic not on the syllabus, or a deeper study of a listed topic. Students will submit an extended essay on the selected subject.

The History of Welsh Literature and Literary Criticism I (1)   **WEL 2009**
This course includes an assessment of the influence of the National Eisteddfod and other institutions on vernacular literature.

Second Semester

Composition, Translation and Spoken Welsh II (1)   **WEL 2051**
Further exercises in the various registers.

Medieval Prose II (1)   **WEL 2052**
Continuing study of a selected text.

Early Welsh Poetry II (1)   **WEL 2053**
A continuation of WEL 2003.

Welsh Metrics (1)   **WEL 2054**
The rules and development of 'cynghanedd' in Welsh strict metre poetry.

Selections from Modern Welsh Literature II (1)   **WEL 2055**
A continuation of WEL 2005.

Medieval Breton II (1)   **WEL 2056**
Further study of selections from the prose and poetry of the period.

Welsh Linguistics II (1)   **WEL 2057**
A continuation of WEL 2007.

An Approved Author or Topic II (1)   **WEL 2058**
A continuation of WEL 2008.

The History of Welsh Literature and Literary Criticism II (1)   **WEL 2059**
A continuation of WEL 2009.

Notes for Second Year Students:
- All students must take WEL 2001-WEL 2005 (inclusive) and WEL 2051-WEL 2055 (inclusive). In addition to the courses listed above, one from each of courses WEL 2006-WEL 2009 and WEL 2056-WEL 2059 is required. (Selection will be made in consultation with the Head of School and will depend on the availability of courses).
- Students selecting Welsh as a minor subject in Celtic Studies (Mode III) will choose three from each of courses WEL 2001-WEL 2009 and WEL 2051-WEL 2059. (Selection will be made in consultation with the Head of School and will depend on subject combination).

Final Year (WEL 3000)

First Semester

Composition, Translation, Spoken Welsh I (1) WEL 3001

The course is designed to further the student's ability to handle the literary and spoken language.

Medieval Prose I (1) WEL 3002

The prose genres of the medieval period, including selections from original and translation material.

Medieval Poetry I (1) WEL 3003

A survey of the development of the bardic order and its main metre, the cywydd deuair hirion in the fourteenth to sixteenth centuries. Textual work concentrates on the poems of Dafydd ap Gwilym.

Twentieth-Century Prose I (1) WEL 3004

Representative samples from the compositions of modern prose writers and modern playwrights.

Twentieth-Century Poetry I (1) WEL 3005

Selections from the major poets and schools of twentieth-century modernism.

Modern Breton: Structure and Texts I (1) WEL 3006

The grammar of modern (KLT) literary Breton, including a detailed study of a published folk-tale.

Medieval Cornish: Structure and Texts I (1) WEL 3007

The grammar of medieval Cornish, including the detailed study of the Cornish 'passion' poem.

Old Welsh (1) WEL 3008

Prose texts of the ninth to eleventh centuries.

An Approved Author or Topic I (1) WEL 3009

The guided study of an author or topic not on the syllabus, or a deeper study of a listed topic. Students will produce an extended essay on their chosen subject.

Second Semester

Composition, Translation and Spoken Welsh II (2) WEL 3051

Advanced composition and translation exercises and a study of the various written and spoken registers of Modern Welsh.

Medieval Prose II (1) WEL 3052

A continuation of WEL 3002.

Medieval Poetry II (1)   WEL 3053
A continuation of WEL 3003.

Twentieth-Century Prose II (1)   WEL 3054
A continuation of WEL 3004.

Twentieth-Century Poetry II (1)   WEL 3055
A continuation of WEL 3005.

Modern Breton Structure and Texts II (1)   WEL 3056
Further study of the grammar of Modern Breton, including readings from present-day prose compositions.

Medieval Cornish: Structure and Texts II (1)   WEL 3057
A further study of medieval Cornish texts.

History of the Welsh Language (1)   WEL 3058
Change and development in orthography and grammatical structure during the medieval and modern period.

An Approved Author or Topic II (1)   WEL 3059
A continuation of WEL 3009.

Notes for Final Year Students:

- Students selecting Welsh as a major subject in Celtic Studies (Mode III) will take, in addition to the courses listed above, *one* from each of courses WEL 3006-WEL 3009 and WEL 3056-WEL 3059. (Selection will be made in consultation with the Head of School and will depend on availability).

- Students selecting Welsh as a minor subject in Celtic Studies (Mode III) will choose three from each of courses WEL 3001-WEL 3009 and WEL 3051-WEL 3059. (Selection will be made in consultation with the Head of School and will depend on subject combination).

Subject Index