



**University College Dublin
National University of Ireland, Dublin**

**B.A. Degree Programme
(Undergraduate Day Courses)**

Session 2003/2004

***Information For Exchange Students
Re Units And Credits***

Throughout this booklet, undergraduate Arts courses, except in first 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*. 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 Faculty 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.

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***Degrees in the Faculties 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 Faculty of Arts:

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)**

In the Faculty 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)

In the Faculty of Celtic Studies:

Doctor of Philosophy (PhD)
Doctor of Celtic Studies (DLittCelt)

* For details of the BA Modular (Evening) Degree, see separate booklet.

** For details of the BMus Degree and the BSocSc (Honours) Degree, see separate booklets – *Music, Social Science*.

Guide To Timetable

Classification of Arts Subjects*						
Description	A	B	C	D	E	F
Subjects offered in all years	Arabic Linguistics Greek and Roman Civilization Economics History of Art	Greek History Welsh Music Statistics	Maths/Maths Studies German Spanish Early Irish‡ Hebrew Information Studies Latin	English Archaeology Politics Computer Science (for DN050 Students only)	Philosophy Irish Italian Sociology	French Psychology Geography Maths Physics Studies
Subject offered in first year only						Celtic Civilization
Subjects offered in 2nd and 3rd year only	Irish Folklore Icelandic Classical Studies†				Aramaic	
Subjects offered in 2nd and 3rd year to complete full degree subjects in Mode 1*		Additional Economics		Additional Psychology	Additional English	Additional History

* The subjects for Philosophy (Mode 1) are not listed here. Details will be provided in the timetable issued at the beginning of the session.

† Details of the additional lectures in Classical Studies will be available from the Classics Department.

‡ Students of Early Irish who wish to take Latin, will be facilitated by the Classics Department.

First Arts

Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
09.00-10.00	A	C	A	C	A	-
10.00-11.00	E	D	E	D	E	-
11.00-12.00	B	F	B	F	B	-
12.00-13.00	C	B	D	E	F	-
13.00-14.00	-	-	-	-	(C)**	-
14.00-15.00	-	F	C*	A†	(A) ‡	-
15.00-16.00	-	-	D	-	-	-

* Except Mathematics (H); † Except Economics and Linguistics; ‡ Economics and Linguistics only; ** Mathematics (H) only.

Second Arts

Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
09.00-10.00	B	D	B	D	B	-
10.00-11.00	A	C	A	C	A	-
11.00-12.00	F	E	F	E	F	-
12.00-13.00	D	F	C	A	E	-
13.00-14.00	-	C*	-	-	-	-
14.00-15.00	C	A	D	F	B	-
15.00-16.00	E	F	B	C	A	-
16.00-17.00	D	B	E	E	D	-
17.00-18.00	-	-	-	-	-	-

* Except Mathematics (H); .

Third Arts

Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
09.00-10.00	E	F	E	F	E	-
10.00-11.00	C	B	C	B	C	-
11.00-12.00	D	A	D	A	D	-
12.00-13.00	F	D	B	C	A	-
13.00-14.00	E*	B	E*	E*	E*	-
14.00-15.00	B	C	F	D	E	-
15.00-16.00	A	D	E	B	C	-
16.00-17.00	E	A	F	A	F	-
17.00-18.00	-	-	-	-	-	-

* Philosophy only.

Notes:

- 1 In all years tutorials will be by arrangement.
- 2 The above guide merely indicates the possible times for the main classes in specific subjects. For details, students should consult the timetables issued at the commencement of the session.
- 3 Mode 1 'additional subjects' or subjects with small numbers may be held, in special cases, at other times, if the timetable and accommodation requirements permit.

Degree of Bachelor of Arts (Honours) Day Courses

The Faculties 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 departments in the Faculties 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 reading for the BA Degree (Honours) by day take three subjects in the first year (as explained in the section on 'First Arts Day Courses') and one, two or three subjects in the second and final years (as explained in the sections on the different degree modes).

Students who have passed the First Arts 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 First Arts Examination and by the subject combination selected in First Arts. *In selecting first year subjects, therefore, students should pay particular attention to the details concerning admission to the degree mode for which they are aiming.*

Students are normally permitted a maximum of two years in First Year Arts from the date of entering the course. A similar regulation applies to Second Year Arts. In exceptional circumstances an extension to the two-year rules may be considered by the Faculty of Arts: for information on application procedures please contact the Faculty of Arts Office.

Course Requirements: Definition of the 'Unit'

Day courses, except in first 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 *First University Examination in Arts* (taken at the end of the first year) which must be passed in three permissible subjects before a student may proceed to second year.

The examination is held in the Summer of each year; a repeat examination in individual subjects is held in the Autumn. The examination must be passed within two years of entering the course.

For further details, see the section 'First Arts Day: Examination Requirements'.

- (b) 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.

- (c) 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 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.

First Arts Day Courses

General Description

First year students must follow courses in, and present for examination in, *three* subjects.

Subject Combinations

The subjects available in First Arts (Day) are listed below.

No two subjects may be taken from the same section of the list and not more than two subjects with asterisks may be chosen.

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, Linguistics
Section B:	Greek, History*, Music ¹ , Statistics ² , Welsh
Section C:	Early Irish ³ , German, Hebrew, Information Studies*, Latin, Logic ⁴ , Mathematical Studies, Mathematics (H), Spanish
Section D:	Archaeology, English*, Politics*
Section E:	Irish, Italian, Philosophy, Socio logy*
Section F:	Celtic Civilization ⁵ , French, Geography*, Mathematical Physics Studies ² , Psychology ⁶

(See pages 24 and 25 for details regarding BA (Computer Science) for students entering under DN050).

Notes

1. Special conditions may apply to entry to Music; students should enquire from the department.
2. Students wishing to proceed to second year in Mathematical Physics Studies and Statistics must also have passed First Arts Mathematical Studies or Mathematics. The combination Statistics and Psychology is only permitted in first year 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 Department.
4. Logic will not be available as a First Arts subject in the 2003/2004 session.
5. Celtic Civilization is available as a First Arts subject *only*.
6. Students currently entering through DN012 should note that Psychology may only be taken beyond First Arts as a Single Honours subject (Mode I: 35 places).

Examination Requirements

The First University Examination in Arts, taken at the end of first year, must be passed in three subjects within two years of entering the course. It is held in the Summer of each year; a repeat examination is held in the Autumn.

A subject passed need not be taken again; students may combine results in different subjects obtained at different examining sessions but no two subjects may be taken from the same section of the list and not more than two subjects with asterisks may be chosen.

Awards

The awards on First Arts Examinations are: First Class Honours, Second Class Honours, Pass, Fail.

Honours may be awarded in individual subjects only at the Summer examinations and only to candidates who pass all three subjects at one sitting.

The awards on Pass examinations are: Pass, Fail.

Qualifying Mark

A mark of 50% obtained in Honours Mathematics (Summer or Autumn) is deemed adequate for a student to proceed into second year at Honours level in the subject concerned, provided a suitable subject combination has been passed. In all other subjects, a mark of 40% entitles a student to proceed to second year in that subject, provided a suitable subject combination has been passed.

Note:

For regulations concerning entry to Mode I (Single Subject) English, History, Philosophy or Psychology, see pages 12-14.

Mode I: BA (Honours) Single Subject

A specified number of places are available through the denominated entry CAO First Year application system as follows: Economics (20); History (12); Philosophy (5); Psychology (35). A number of places in these subjects, as indicated on the following pages, are also available on the results of the First Arts examination for students who have entered through DN012 (omnibus entry).

(N.B. From September 2005, entry to Second Year Mode I Psychology will only be available to students who enter First Arts through the CAO denominated entry DN054).

General Description

In Mode I, students study for the Degree of BA (Honours) in a single subject.

Admission Requirements

For admission to Mode I, the First Arts Examination must have been passed. 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 department(s) concerned. Second year students interested in the BA (International) option should see pages 22 and 23 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 Mode I (Day) and
Conditions for Entry**

Second And Final Year Subjects	First Year Subjects Required For Entry Note: No two first year subjects may be taken from the same section of the list of subjects available in first year. (See regulations page 10)
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 on First Arts examination 2004 for students entering through DN012	(a) Economics; (b) Any other subject; (c) Any other subject.
English ‡ Limit of 20 places on First Arts examination 2004 for students entering through DN012	(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 6 places on First Arts examination 2004 for students entering through DN012	(a) History; (b) Any other subject; (c) Any other subject.

Second And Final Year Subjects	First Year Subjects Required For Entry Note: No two first year subjects may be taken from the same section of the list of subjects available in first year. (See regulations page 10)
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 5 places on First Arts examination 2004 for students entering through DN012.	(a) Philosophy or Logic; (b) Any other subject; (c) Any other subject.
Psychology (Some courses will also be taken in Philosophy). † Limit of 35 places on First Arts examination 2004 for students entering through DN012. (From September 2005 these places will no longer be offered).	(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 First Year Psychology students are required to reach at least 65% in Psychology to be eligible for one of the places in Mode I Psychology.

† In Mode I Economics, English, History, Philosophy and Psychology, the places available to students who have entered through DN012 are allocated on the basis of First Arts marks in the subject concerned in the year of application, provided applicants have passed the First Arts Examination as a whole. (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 Mode I Economics, English, History, Philosophy or Psychology must contact the department concerned and fill in an application form before 15 February 2004.

Mode II: BA (Honours) Two Subjects

General Description

In Mode II, students study for the Degree of BA (Honours) in two of the subjects studied in First Arts. The two subjects must be taken from different sections of the list of subjects available in First Arts, with the exception of Psychology which is not offered in Mode II and Celtic Civilization which is only offered in first year.

Admission Requirements

(All subjects except Mathematics (Honours))[†]

For admission to Mode II, the First Arts Examination must have been passed in three subjects.

Students wishing to take Statistics in second year must include Mathematical Studies or Mathematics among the subjects passed in First Arts.

Course Requirements

Students must attend and be examined in twenty-four course units, twelve units (or equivalent) in each of their two subjects in second year; the same requirement exists in the final year. Second year students interested in the BA (Honours) (International) option should see page 22 and 23 for details.

Examination Requirements

The Second Arts (Honours) Examination must be taken in twenty-four units or equivalent (twelve units per subject) after the completion of the appropriate courses. This examination must be passed in both subjects, 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 – twelve units per subject) is taken at the end of the final year.

Awards

Honours will be awarded separately in each subject. Honours may only be awarded if both subjects are passed at one sitting in the Summer Examination.

The awards on the Second Arts (Honours) and BA (Honours) Examinations in Mode II are: First Class Honours; Second Class Honours, Grade I; Second Class Honours, Grade II; Third Class Honours; Pass; Fail.

[†] Special Regulations Applicable to Mathematics (Honours)

For admission to Second Year Mathematics (Honours), the First Arts Examination must have been passed in three subjects with a mark of at least 50% in Mathematics (Honours). Students who obtain a mark of between 40% and 50% in Mathematics (Honours) may proceed to Second Year Mathematical Studies.

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.

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 First Arts (e.g. Irish Folklore) or is a specialisation not available as a *separate* subject in First Arts (e.g. Old and Middle English).

Admission Requirements

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

Course Requirements

As for Mode II.

Subject Combinations

A table showing possible subject combinations in Mode IIA may be seen on the next page.

Examination Requirements

As for Mode II.

Awards

As for Mode II.

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

Second And Final Year Subjects	First Year Subjects Required For Entry Note: No two first year subjects may be taken from the same section of the list of subjects available in first year. (See regulations page 10)
<p>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</p>	<p>(a) History;</p> <p>(b) The second subject to be taken in Mode IIA; (for <i>Old and Middle English</i>, the requirement is First Arts English; for <i>Medieval History</i> any First Arts subject may be offered);</p> <p>(c) Any other subject.</p>
<p>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</p>	<p>(a) Any subject;</p> <p>(b) The second subject to be taken in Mode IIA; (for <i>Early Irish History</i>, <i>Medieval History</i> or <i>Modern Irish History</i>, the requirement is First Arts History);</p> <p>(c) Any other subject.</p>
<p>Old and Middle English and Another Subject Old and Middle English; One of the following: Early Irish Linguistics Medieval History</p>	<p>(a) English;</p> <p>(b) The second subject to be taken in Mode IIA; (for <i>Medieval History</i>, the requirement is First Arts History);</p> <p>(c) Any other subject.</p>

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 First Arts 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 pages 22 and 23 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	First Year Subjects Required For Entry Note: No two first year subjects may be taken from the same section of the list of subjects available in first year. (See regulations page 10)
<p>Celtic Studies</p> <p><u>A.</u> One of the following as major subject: Early Irish Modern Irish Welsh*</p> <p>And the other two languages as minor subjects.</p> <p><u>B.</u> Early Irish as major subject; two of the following as minor subjects: Welsh Early Irish History Archaeology.</p> <p><u>C.</u> Welsh* and Modern Irish or Scottish Gaelic (with Modern Irish).</p> <p><u>D.</u> Irish Folklore as major subject; two of the following as minor subjects: Modern Irish Early Irish Welsh Archaeology and Early Irish History.</p> <p>* Major Welsh includes Breton</p>	<p>(a) Modern Irish;</p> <p>(b) Early Irish <i>or</i> Welsh;</p> <p>(c) Early Irish <i>or</i> Welsh <i>or</i> Latin <i>or</i> Greek <i>or</i> French <i>or</i> Archaeology <i>or</i> Celtic Civilization.</p> <p>If students plan to take either Early Irish or Welsh as a major subject, they must have passed that subject in the first year.</p>

Second And Final Year Subjects	First Year Subjects Required For Entry Note: No two first year subjects may be taken from the same section of the list of subjects available in first year. (See regulations page 10)
<p>Celtic Studies (Contd.) <u>E.</u> One of the following as major subject: Archaeology Early Irish History Early Irish Language and Literature Welsh</p> <p><u>Two</u> minor subjects: Two subjects from above not chosen as the major subject <i>or</i> one of these and Medieval Welsh. If Welsh is chosen as major subject Medieval Welsh may not be chosen as a minor subject</p>	<p>(a) Modern Irish <i>or</i> Early Irish Language and Literature; (b) Archaeology; (c) History (including Early Irish History) <i>or</i> Latin <i>or</i> Welsh <i>or</i> Celtic Civilization.</p> <p>If either Archaeology <i>or</i> Early Irish Language and Literature <i>or</i> Welsh is chosen as a major subject, it must be passed in the first year.</p>
<p>Near Eastern Languages Major subject: Hebrew; Two minor subjects: Aramaic Hellenistic Greek</p>	<p>(a) The major subject to be offered in the BA; (b) Any other subject; (c) Any other subject.</p>

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 department(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 departments 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 Department of at least one of the departments 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 departmental approval. Final decisions on all aspects of the programme rest with the Head of the UCD Department(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 Department, 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 department 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 department.

Admission Procedures

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

A specified number of places are available through the denominated entry CAO First Year 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 departmental appraisal for students who have entered through DN012 (omnibus entry). Details on application procedures are available from individual departments.

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

First Year

Students choose Computer Science (which is a group D subject) 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, Linguistics
Section B:	Greek, History, Music ¹ , Statistics ² , Welsh
Section C:	Early Irish ³ , German, Hebrew, Information Studies*, Latin, Logic ⁴ , Mathematical Studies, Mathematics (H), Spanish
Section F:	Celtic Civilization ⁵ , French, Geography*, Mathematical Physics Studies ² , Psychology ⁶

For subject restrictions 1-6, see Notes for First Arts Day subjects (page 10).

Second Year

Students continue with Computer Science (12 units) and one Arts subject (12 units) studied in First Year provided the First Arts examination has been passed in three permissible subjects.

Third Year

Students continue with Computer Science (12 units) and the Arts subject (12 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 they 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 (16 units) and a major BA thesis (8 units).

Examination and Course Requirements

First Year: As for First Arts (see page 10)

Second and subsequent Years: As for BA Mode II (see pages 15 and 16)

N.B. Beneficial aggregation does not apply to the subject Computer Science.

Syllabus of Courses

Arabic

FIRST YEAR

(ARAB 1000)

- ARAB 1001 Principles of Arabic grammar. Course book: David Cowan, *An Introduction to Modern Literary Arabic* (Cambridge University Press).
- ARAB 1002 Elementary Arabic reading and comprehension.
- ARAB 1003 Beginners' level translation from Arabic into English and from English into Arabic.
- ARAB 1004 Introduction to Islam.

No prior knowledge of the language is required. 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.

SECOND YEAR

(ARAB 2000)

(deemed equivalent to twelve units)

- ARAB 2001 *Arabic-English Translation*
Translation of unseen passages from Arabic into English.
- ARAB 2002 *English-Arabic Translation*
Translation of unseen passages from English into Arabic.
- ARAB 2003 *Arabic Religious and Secular Texts*
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.
- ARAB 2004 *Modern Arabic Literature*
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)

- ARAB 3001 *Arabic-English Translation*
Translation of unseen passages from Arabic into English.
- ARAB 3002 *English-Arabic Translation*
Translation of unseen passages from English into Arabic.

ARAB 3003 *Islamic History and Aspects of Arabic Historiography*
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.

ARAB 3004 *Modern Arabic Literature*
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)

FIRST YEAR

Courses not offered.

SECOND YEAR

(ARAM 2000)

Mode III

ARAM 2001 *Syriac Grammar*. Text: J.F. Healey, *First Steps in Syriac*.

ARAM 2002 *Grammar of Biblical Aramaic*. Text: F. Rosenthal, *A Grammar of Biblical Aramaic*.

ARAM 2003 *Prescribed texts*: Selections from Brockelmann's *Chrestomathie*, and F. Rosenthal (ed.), *An Aramaic Handbook*.

ARAM 2004 *History of the Aramaeans*.

FINAL YEAR (ARAM 3000)

Mode III

ARAM 3001 *Prescribed texts*: Selections from Brockelmann's *Chrestomathie*, F. Rosenthal (ed.), *An Aramaic Handbook*, and J. Gibson, *Syrian Semitic Inscriptions*, Vol. 2.

ARAM 3002 *Translation of Unseen Passages*.

ARAM 3003 *History of the Targums and Syriac literature*.

Note: For unit values of courses in Aramaic, please consult the Department of Near Eastern Languages.

Archaeology

FIRST YEAR

(ARCH 1000)

While the topics studied serve as a foundation for students proceeding to second and final years, they also form a complete programme for those taking Archaeology for one year. The course comprises eight 12-lecture modules.

Up to twenty-five percent of the overall end of year mark will be awarded for continuously assessed coursework (including essays and worksheets). These will be submitted on a regular basis throughout the year.

ARCH 1006 *What is Archaeology?*

What is Archaeology? How do we know what happened in the past? How do we date past events? These questions are addressed in this course of 12 lectures.

ARCH 1007 *The Palaeolithic and Mesolithic periods*

This course will examine the evidence for the earliest humans in Africa, looking at the evolution of humanity through more than four million years and the dispersal of early hominids across the globe. The cave art of Ice Age hunters will be discussed as will the societies of the early postglacial period, a time when people developed complex hunting, gathering and fishing techniques in adaptation to their new environment.

ARCH 1008 *The Neolithic in Ireland and Europe*

The Neolithic period is when farming societies became established in Europe. These lectures will look at the origins and spread of the farming lifestyle. They will explore the character of Neolithic settlement and the role played by the dead and the ancestors, using this information as a means of understanding the complexity of Neolithic societies.

ARCH 1009 *Life and Death in Bronze Age Europe*

During the Bronze Age, we see the first use of metals, the emergence of social stratification and the development of complex trade networks linking societies in distant parts of the European continent. These 12 lectures will discuss some of the evidence archaeologists have used to reconstruct social, political, economic and religious life during this period.

ARCH 1010 *Iron Age Europe and Ireland*

Conventional dating for the beginning of the Iron Age in Europe is about 750 BC. By about 600 BC, iron-working, on a limited scale, had reached Ireland. The period is associated with those people historically referred to as Celts, a people with distinctive burial rites, with advanced metal technology and, above all, with an art style which has been described as “the first great non-classical art of Europe”. In the course of the last century BC, the expansion of Roman power brought an end to Celtic independence. Only in Ireland did Celtic culture survive.

- ARCH 1011 *Ireland and Europe in the Early Middle Ages*
This course is an examination of the archaeology of Ireland and Europe between the fifth and tenth centuries AD. The topics discussed will include the 'barbarian invasions', the Viking diaspora, and the art of the Church in Ireland.
- ARCH 1012 *Later Medieval Ireland and Europe*
The archaeology of Ireland and Europe in the first half of the second millennium AD is discussed here. We will examine specifically the rise of high medieval European culture and the effects of the Anglo-Norman invasion of Ireland.
- ARCH 1013 *The Archaeology of World Societies*
In this course of 12 lectures students are introduced to both ancient civilisations, such as the Scythians, and modern societies such as the Australian Aborigines, Amazonian Indians and the Inuit of the Arctic Circle.

SECOND YEAR

(ARCH 2000)

(deemed equivalent to twelve units)

This comprises ten 12 lecture courses and one 24 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 twenty-five percent 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 north-western 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 Department for details.

Up to twenty-five percent 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 (C)*
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 *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 department.

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.

Celtic Civilization

FIRST YEAR

(CCIV 1000)

This course of lectures, a comprehensive survey of the Celtic peoples in the ancient and medieval worlds, will enable the student to understand and appreciate Celtic literary, intellectual and artistic achievements.

The history and culture of the Celts will be traced from their prehistoric continental origins to their ultimate homelands in Ireland, Britain and Brittany. Included will be a study of institutions, religion and mythology, law and art. The evidence of archaeology will be examined and discussed in conjunction with the written sources.

The varied and important medieval literature of Ireland and Wales, read in translation, complements the broader study of Celtic culture. Texts will include the Táin and early Irish sagas, lyric poetry, the Mabinogion, Arthurian romance and medieval Welsh poetry. A general overview of the Celtic languages will also be presented.

CCIV 1001 *Insular Celtic Archaeology and Art*
CCIV 1002 *Ancient Celtic Peoples*
CCIV 1003 *Celtic Mythology*
CCIV 1004 *Romano-Celtic Britain*
CCIV 1005 *Early/Medieval Welsh Literature*
CCIV 1006 *Celtic Ireland*
CCIV 1007 *Early Irish Literature*
CCIV 1008 *Celtic History and Ethnography*

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

Please note that Celtic Civilization is currently offered as a first year subject only. Students taking this subject in combination with certain other first year subjects may proceed to the BA (Honours) in Mode IIA or to the BA (Honours) in Celtic Studies in Mode III.

Classical Studies

FIRST YEAR

To qualify to enter Classical Studies, which is a Mode I degree subject, students must take Greek and Roman Civilization as one of their first year subjects.

SECOND YEAR

(CS 2100)

(deemed equivalent to 24 units)

- CS 2001 *Greek History: The Rise of Macedon.*
- CS 2002 *Greek Art and Archaeology: The Archaeology of Greek Society.*
This course builds on the First Year 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.
- CS 2003 *Greek Philosophy: Plato, Phaedo.*
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.

- CS 2004 *Greek Literature: 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 *Heraclēs*. 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.
- CS 2005 *Roman History: The Early Roman Empire.*
- 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.
- CS 2006 *Roman Art and Archaeology: Imperial Art and Architecture.*
- Official art in the Roman empire was more than just decoration for the towns of the Roman empire. It fulfilled a vital political role. During the course we will look at the "language" of Roman art and learn how to read the political messages in some of the big monuments in Rome and elsewhere, and how the "language" survived into European culture. The period covered is the first to fifth century.
- CS 2007 *Roman Literature: The Satires of Horace Persius; Juvenal, The Satires* (World's Classics, trans. N. Rudd).
- Satire was the only literary form which the Romans invented. The three authors covered – Horace with his urbane moralising, Persius with his doctrinaire preaching and Juvenal with his bitter tirades – give us an insight into the realities of life in Rome.
- CS 2008 *Ancient Society: Stoics and Epicureans.*
- The Stoics and Epicureans were the two philosophical movements which had the greatest direct influence on the everyday lives of ancient Greeks and Romans. They held that a moral code could be based on reasoned argument in the context of an understanding of our physical environment. This course examines how they justified their moral code and the kind of physical universe which they claimed we inhabit. As far as possible this will be done through the words of the philosophers themselves, in the case of the Epicureans through Lucretius' poem *On the Nature of the Universe*.

Either

CS 2009 *Greek Language*
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 Wilding, *Greek for Beginners*.

or

CS 2010 *Latin Language*
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 24 units)

I Subject to certain restrictions in choice, students will be required to choose four courses from a list of courses which will be offered each year. Subject to approval by the Head of Department, a student may substitute an extended essay of approximately 12,000 words for one of these courses.

Courses offered in the session 2003/2004 may include:

- CS 3001 *The Archaeology of Minoan Crete*
- CS 3003 *The Oedipus Myth*
- CS 3004 *Roman History 60-50 BC*
- CS 3008 *Introduction to Neoplatonism: Plotinus*
- CS 3014 *Slavery*

II Either

CS 3010 *Greek*

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

CS 3011 *Latin*

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

FIRST YEAR

To qualify to enter Classics, which is a Mode I degree subject, students must take Greek and Latin (either Mode A or B) as first year subjects.

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

FIRST YEAR

(COMP 1600)

There are three lectures a week plus programming practicals and tutorials.

1. Introduction to Computing Programming

Nature of computation; algorithms; correctness and efficiency of algorithms; basic complexity measures; sequence, selection and iteration constructs; program construction using these constructs; reasoning about programs; various methods of problem decomposition; reuse of existing software components.

2. Introduction to Information Technology

Basic computer hardware; practical usage of current software applications and operating systems; the Internet and World -Wide Web.

SECOND YEAR

(COMP 2600)

COMP 2601 *Datastructures & Algorithms 1*

Software design principles; data abstraction; dynamic data types; lists, queues, stacks, trees, graphs and operations on them; hashing.

- COMP 2603 *Functional Programming*
Expression Evaluation; Notation; Types; Conditionals; Lists & primitive functions; DEFUN; Applicative functions; Iteration; Declarations; Macros; EVAL; Compilation; Association lists; Assignment; Structures; I/O; CLOS; Garbage Collection; Other functional languages.
- COMP 2607 *Formal Foundations*
The role of mathematics and logic in Computer Science; Logic fundamentals; propositional and predicate logic and proof techniques.
- COMP 2606 *Databases & Information Systems*
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.
- COMP 2608 *Operating Systems I*
Introduction to Oss. Processes: Memory Management; File Management; Introduction to Security and Protection; Case Studies; Unix, Win NT.
- COMP 2609 *Datastructures & Algorithms II*
Trees; graphs; pattern matching; sorting; specification techniques; complexity analysis; applications.
- MATH 2007 *Mathematical Foundations*
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)

Students will be required to take five of the following units based on the set of units offered in a given year.

- COMP 3617 *Foundations of Computing*
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.
- COMP 3604 *Software Design and Development I*
Information systems; Users, the technology, the value of information, systems development life cycle (overview); analysis and design methodologies; structured methods; selected system analysis and design techniques; designing structured programs; data environments; programming; software development tools, project management (overview); systems justification.

- COMP 3606 *Introduction to Artificial Intelligence*
Problem solving & search; Introduction to knowledge representation: search techniques; expert systems. Introduction to Machine Learning; Inductive learning; learning from mistakes; case-based reasoning. Connectionist Computing; Basic neurobiology; history of connectionism; Connectionist models. Applications of Artificial Intelligence; studies; recommender systems & the World Wide Web.
- COMP 3607 *Program Design & Verification I*
Review of predicate logic; use of predicates to specify programs. WP-Calculus, backward derivation, refinement calculus, Calculation of programs. Efficiency considerations; strengthening invariants, choosing variants.
- COMP 3611 *Object-Oriented Programming*
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++.
- COMP 3616 *Networks & Internet Systems*
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.
- COMP 3618 *Multimedia Systems*
Introduction to the World Wide Web, web design and authoring tools; web servers; HTML; typography; page and graphic design; graphic formats; dynamic HTML; cascading style sheets; java script; forms processing; introduction to intelligent multimedia.

FOURTH YEAR

(COMP 4600)

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

- COMP 4602 *Information Systems II*
Databases; recovery; concurrency; security; integrity; distributed databases; extended relational data model; object oriented data model.
Prerequisite: COMP 2606
- COMP 4603 *Systems Design & Development*
Systems development life cycle (issues/problems); Tools and techniques for analysis and design; implementation approaches, soft methodologies; CASE tools; analysis, design, code generation; distributed system issues; evaluation; usability; quality assurance; security; project management tools and techniques.
Prerequisite: COMP 3604

- COMP 4604 *Interactive Computer Graphics*
The rendering pipeline; visible surface determination; local illumination and shading models; curve and curved surface generation; solid modelling, texture mapping; global illumination; ray tracing radiosity and monte carlo methods; computer animation; scientific visualization.
- COMP 4605 *Image Processing*
Geometric operations; linear system theory; convolution and correlation; continuous Fourier transform; Fast Fourier Transform; frequency filtering; segmentation; image encoding; applications.
- COMP 4606 *Computability*
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.
- COMP 4607 *Formal Semantics*
Formal semantics; needs and uses; semantics; recursive programs; fixed point theory; structural induction; computational induction; denotational semantics; algebraic semantics; axiomatic semantics.
- COMP 4608 *Object-Oriented Design*
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.
- COMP 4609 *Design Patterns*
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
- COMP 4610 *Concurrent Programming*
Nature of concurrent programming; shared memory; message passage; interference; synchronisation; mutual exclusion; semaphores; deadlock; fairness; high level constructs for concurrency; communication sequential processes; applications to operating systems; formal verification.
- COMP 4611 *Formal Specifications*
Need for formal specifications; specification methods e.g. VDM, algebraic specifications; techniques for specifying complex systems; developing systems for specifications; case studies.
- COMP 4612 *Operating Systems II*
Introduction, Process synchronisation, Language mechanisms for concurrency, Deadlock, Computer security – 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.
Prerequisite: COMP 2608
- COMP 4613 *Language Engineering*
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.
Prerequisite: COMP 3606
- COMP 4614 *Distributed Systems*
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
- COMP 4615 *Exploring Computer Science*
Special topics related to current research and state of art applications not covered in other units.
- COMP 4616 *The Intelligent Internet*
Applications of Artificial Intelligence techniques to the Internet: information integration, information extraction, information retrieval, clustering, recommender systems, and semistructured information.
Prerequisite: COMP 3606
- COMP 4617 *Foundations of Artificial Intelligence*
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.
Prerequisite: COMP 3606
- COMP 4618 *Connectionist Computing*
Basic neurobiology: cortical and sub-cortical structure and function. History of connectionism; the McCulloch and Pitts neuron, Hebbian learning, the Perceptron. Modern connectionist learning: simple associators, the Boltzmann machine, Hopfield networks, Kohonen networks, error backpropagation. Connectionist natural language processing. Connectionist visual processing.
Prerequisite: COMP 3606

- COMP 4619 *Multi-Agent Systems (MAS)*
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
- COMP 4625 *Spatial Information Systems*
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
- COMP 4626 *Knowledge Based Computation*
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
- COMP 4627 *Problem Design & Verification II*
Calculating programs; advanced derivational techniques; refinement calculus; reifying abstract data types; the use of simple algebras in program construction.
Prerequisite: COMP 3606

Economics

FIRST YEAR (ECON 1000)

A general introduction to economics and its methodology:

- ECON 1001 *Microeconomics*: The price system, theory of the firm, factors of production and their markets; microeconomic policy.
- ECON 1002 *Macroeconomics*: National income accounting, introduction to models of income determination, money, banking and credit, international economic relations, monetary and fiscal policy.

SECOND YEAR

**(ECON 2000 – MODE II)
(ECON 2100 – MODE I)**

- ECON 2001 *Macroeconomics (2)*
Intermediate level course in macroeconomics.
- ECON 2002 *Microeconomics (2)*
Intermediate level course in microeconomics.
- ECON 2005 *History of Economic Thought (2)*
The development of economic theory over the years.
- ECON 2006 *Statistics/Econometrics (2)*
Introduction to statistics as applied to the estimation of economic models.
- ECON 2010 *Economic History (2)*
Introduction to the main topics in Irish and Western economic history.
- ECON 2011 *The Irish Economy (2)*
Study of the Irish economy, its development and recent economic history.
- ECON 2012 *Quantitative Techniques (2)*
Introduction to the use of mathematical techniques in economics.
- ECON 2017 *Labour Economics (2)*
The economics of investment in human capital. Labour supply, employment, unemployment and wage rigidity.
- ECON 2025 *Environmental Economics (2)*
Externalities and the environment; optimal policies to combat pollution; cost-benefit analysis of resource-based projects.
- ECON 2028 *Managerial Accounting (2)*
Introduction to principles of managerial accounting and financial control.
- ECON 2030 *Tutorials (2)*
Weekly tutorial on general aspects of theoretical and applied economics.
- ECON 2031 *Applied Economics (2)*
Study of the determinants of market structure and their implications for resource allocation.

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

<i>Schedule of Courses for Second Arts Mode I and Other Modes</i>		<i>Mode I</i>	<i>Other Modes</i>
ECON 2001	<i>Macroeconomics</i>	R	R
ECON 2002	<i>Microeconomics</i>	R	R
ECON 2005	<i>History of Economic Thought</i>	O	O
ECON 2006	<i>Statistics/Econometrics</i>	R	R
ECON 2010	<i>Economic History</i>	O	O
ECON 2011	<i>The Irish Economy</i>	R	R
ECON 2012	<i>Quantitative Techniques</i>	R	R
ECON 2017	<i>Labour Economics</i>	O	O
ECON 2025	<i>Environmental Economics</i>	O	O
ECON 2028	<i>Managerial Accounting</i>	O	*
ECON 2030	<i>Tutorials</i>	R	R
ECON 2031	<i>Applied Economics</i>	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 do the *five* required courses and attend tutorials.

FINAL YEAR

(ECON 3000 – Mode II)

(ECON 3100 – Mode I)

ECON 3001	<i>Macroeconomics (2)</i> Macroeconomic theory; growth inflation and unemployment, fiscal, monetary and exchange-rate policy.
ECON 3002	<i>Microeconomics (2)</i> Applications of price theory to contemporary problems; introduction to welfare economics and general equilibrium.
ECON 3003	<i>Economic Theory I: Macroeconomics (4) (Mode I students only)</i> Macroeconomic theory; growth inflation and unemployment, fiscal, monetary and exchange-rate policy.
ECON 3004	<i>Economic Theory II: Microeconomics (4) (Mode I students only)</i> Applications of price theory to contemporary problems; introduction to welfare economics and general equilibrium.
ECON 3006	<i>Econometrics I (2)</i> Estimation and inference in the general linear model; departures from Classical assumptions; simultaneous equation systems.
ECON 3009	<i>Transport Economics (2)</i> 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.
ECON 3010	<i>Economic History (2)</i> Issues in Irish and European economic history.

- ECON 3012 *Quantitative Techniques (2)*
Classical optimisation with and without constraints; linear and non-linear programming; economic applications.
- ECON 3014 *Finance (2)*
Supply and demand for money; the optimal quantity of money; monetary policy.
- ECON 3018 *Health Economics (2)*
Demand for health; payment systems for doctors; casemix analysis; health insurance; health and labour market outcomes.
- ECON 3019 *Econometrics II (2)*
Theoretical aspects of the linear model and its associated problems: interrelation to simultaneous equations models.
- ECON 3020 *Industrial Organisation (2)*
The analysis of modern industry, particularly the competitive and growth strategies of firms under uncertainty; the functioning of markets.
- ECON 3021 *Introduction to Game Theory (2)*
Introduction to the Theory of games with applications to finance, auctions and industrial organisation.
- ECON 3023 *International Economics (2)*
International trade theory; balance of payments adjustment.
- ECON 3024 *Economic Development (2)*
Application of economic theory to the study of the problems facing the less developed countries.
- ECON 3028 *Managerial Accounting (2)*
Introduction to principles of managerial accounting and financial control.
- ECON 3029 *Public Sector Economics (2)*
Demand and supply for public goods; criteria for public intervention; inequality and poverty.
- ECON 3030 *Tutorials (2)*
Weekly tutorial on general aspects of theoretical and applied economics.
- ECON 3033 *Labour Economics (2)*
Microeconomic models of unemployment and evidence for OECD countries, human capital, labour supply.
- ECON 3034 *The European Economy (2)*
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 five 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 three required courses:
 - ECON 3001 *Macroeconomics*
 - ECON 3002 *Microeconomics*
 - ECON 3034 *The European Economy*
- (b) Attend tutorials (ECON 3030)
- (c) Take two options from the list of final year courses excluding ECON 3003 *Economic Theory I* and ECON 3004 *Economic Theory II*.

English

FIRST YEAR

(ENG 1000)

The principal aim of First Year English is to equip you with the literary, theoretical and linguistic expertise needed to understand how texts are constructed and operate. The texts studied range widely in time (from medieval to modern), in place (Ireland, America, England) and in genre (from conventional, 'literary' categories like 'short story' or 'novel' to 'non-literary' ones like the language of the tabloid press or the phonetics of rap poetry). This wide scope affords rich opportunity to investigate how particular historical moments and cultural formations shape texts.

Courses in the English Department are organised under two broad headings: Old and Middle English and Modern. First semester Old and Middle English courses heighten linguistic awareness of how English works, especially today but also in the past. This awareness will enrich your encounter with any text studied in the Department. Old and Middle English courses of the second semester introduce some of the earliest English texts written. Together, the two Old and Middle English semesters are designed to extend your acquaintance with English in all its diversity and at both extremes of its chronological range. First semester Modern courses concentrate on the formal aspects of three literary genres: the short story, the novel and poetry. During these courses you will become aware that there are many different ways of reading the same text, and you will also develop some of the technical and

conceptual skills needed for textual discussion. Modern courses of the second semester build on knowledge acquired in the first by considering texts in a more inter-related fashion and in broader cultural contexts. The focus here will be on texts produced in specific periods of literary and cultural Renaissance.

You will write six course-related essays in First Year, two for the Old and Middle English side of the Department and four for the Modern.

Overall, the aims of First Year are:

- To master the writing of a well-structured, properly documented essay.
- To improve analytical reading skills.
- To acquire some critical vocabulary and theoretical perspectives.
- To situate texts in literary and cultural contexts.

Courses

ENG 1001	<i>Poetic Form (1)</i>
ENG 1002	<i>Narrative (1)</i>
ENG 1003	<i>Dramaturgy and Performance (1)</i>
ENG 1004	<i>Introduction to English Language Studies (1)</i>
ENG 1005	<i>The American Literary Renaissance (1)</i>
ENG 1006	<i>The Irish Literary Renaissance (1)</i>
ENG 1007	<i>The English Literary Renaissance (1)</i>
ENG 1008	<i>Introduction to Medieval English Literature (1)</i>

SECOND YEAR

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

Students take a total of six core courses: three in each semester

Core Courses

ENG 2001	<i>The Canterbury Tales</i>	<i>(1.5 units)</i>
	Taught by weekly lectures and tutorials. Lectures will run for one semester.	
ENG 2002	<i>An Introduction to Old English</i>	<i>(1.5 units)</i>
	Taught by weekly lectures and tutorials. Lectures will run for one semester.	
ENG 2003	<i>Early Modern English</i>	<i>(1.5 units)</i>
	A literature course taught by weekly lectures and tutorials. Lectures will run for one semester.	
ENG 2004	<i>Modern English</i>	<i>(1.5 units)</i>
	A literature course taught by weekly lectures and tutorials. Lectures will run for one semester.	
ENG 2005	<i>American Literature</i>	<i>(1.5 units)</i>
	A literature course taught by weekly lectures and tutorials. Lectures will run for one semester.	
ENG 2006	<i>Anglo-Irish Literature</i>	<i>(1.5 units)</i>
	A literature course taught by weekly lectures and tutorials. Lectures will run for one semester.	
ENG 2013	<i>Tutorial</i>	<i>(1 unit)</i>

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Mode II Options

Students also take two seminar classes: *choices available vary from year to year.*

ENG 2007/2008 *Second Year Seminar Options*

The following indicate what may be offered:

Brendan Behan
Old English Poetry for Beginners
Early American Writing
Readings in 17th Century English Poetry
Hamlet and Revenge Tragedy
The Arthurian Tradition
Contemporary Women Writers
Humour: Medieval to Modern
Gothic Fiction
Walt Whitman
Medieval Fabliaux
Joyce's Ulysses
Children's Literature
Gender Roles in Contemporary Film
William Blake
Monstrous Speculations
Shakespeare, Comedy and Film
Gulliver's Travels
Romance and Lai
Emily Dickinson
Fight for the Right to be Black: The Struggle for African American Identity
Gothic & Gothick
Poetry in English – 17th Century until the Present

All of the above are one unit.

Mode II students must accumulate twelve units over two semesters. *All core courses are compulsory.*

Mode I Core Courses

ENG 2020	<i>An Old English Language Laboratory Course</i>	<i>(1 unit)</i>
ENG 2021	<i>The English Language</i>	<i>(2 units)</i>
ENG 2022	<i>Medieval Texts: from Manuscript to Print</i>	<i>(2 units)</i>
ENG 2024	<i>A Modern English course</i>	<i>(2 units)</i>
ENG 2025	<i>A Modern English course</i>	<i>(2 units)</i>
ENG 2029	<i>Reading Old English</i>	<i>(2 units)</i>

Mode I Options

ENG 2026/2027/2028 Options taught in weekly seminars. See seminars listed under ENG 2007/2008. All options are one unit.

Mode I students must accumulate twenty-four units over two semesters. All core courses are compulsory. In addition to fulfilling the course requirements for Mode II, Mode I students

must take Mode I core courses and three extra seminars (i.e. five seminars in all). No student may take the same option twice.

FINAL YEAR (ENG 3000 – Mode II) (ENG 3100 – Mode I)

Students take a total of six core courses: three in each semester.

Core Courses

ENG 3011	<i>Epic and Romance</i>	(1.5 units)
	An Old and Middle English literature course taught by weekly lectures and tutorials. Lectures will run for one semester.	
ENG 3012	<i>Medieval Dream Visions</i>	(1.5 units)
	An Old and Middle English literature course taught by weekly lectures and tutorials. Lectures will run for one semester.	
ENG 3013	<i>Tradition and Experiment</i>	(1.5 units)
	A literature course taught by weekly lectures and tutorials. Lectures will run for one semester.	
ENG 3014	<i>Literature of Nations</i>	(1.5 units)
	A literature course taught by weekly lectures and tutorials. Lectures will run for one semester.	
ENG 3015	<i>Gender and Writing</i>	(1.5 units)
	A literature course taught by weekly lectures and tutorials. Lectures will run for one semester.	
ENG 3016	<i>The Formation of Canons</i>	(1.5 units)
	A literature course taught by weekly lectures and tutorials. Lectures will run for one semester.	
ENG 3036	<i>Tutorial</i>	(1 unit)

Mode II Options

Students also take two seminar courses; *choices available vary from year to year.*

ENG 3017/3018 Third Year Seminar Options

The following is a sample list:

Allegories and Aesthetics of Irish Literature

Contemporary English Fiction

Canadian Fiction in English

King Lear

Shakespeare and Jacobean Theatre

City Comedy to Sims: Representing the Urban

Wise Virgins

Medieval Celluloid

Discourses of Desire in Early Modern Writing: Edmund Spenser and

Mary Wroth

Victorian Poetry

Old English Literature in an Irish Context

J.M. Synge

Oscar Wilde

“Reservations of the Mind”: Contemporary Native American Literatures
Art and Horror in Nineteenth-Century Fiction
Judith
The Art and Practice of Stage-Craft
Lyrical Ballads
Henry James and Queer Sexuality
Magic and Miracle
Brian Friel
Shakespearean Tragedy and Film
The Age of Immigrants
English Poetry in the Eighteenth Century
Recent Irish Women’s Poetry
Making England
James Joyce
Adventures in Ideology: Egypt in Popular Culture
Jane Austen
Queer Gothic Fiction
Medieval Women
African-American Writing

All of the above are 1 unit.

Mode II students must accumulate twelve units over two semesters. *All core courses are compulsory.*

Mode I Courses

ENG 3024	<i>Reading Old English</i>	(2 units)
ENG 3025	<i>Language in Ireland</i>	(2 units)
ENG 3036	<i>An Old and Middle English course</i>	(1 unit)
ENG 3027	<i>A Modern English course</i>	(2 units)
ENG 3028	<i>A Modern English course</i>	(2 units)

Mode I Options

ENG 3029/3030/3031/3032

Options taught in weekly seminars. See seminars listed under ENG 3017/3018.

ENG 3035	(a) Medieval Welsh	(2 units)
(subject to availability)	(b) Alfred the Great	(2 units)
	(c) Second Language Acquisition	(2 units)
	(d) English as a Global Language	(2 units)
	(e) Language, Power and Identity	(2 units)

The options listed under ENG 3035 here may, but need not be, taken in place of two of our internal options – see list under ENG 3017/3018.

Mode I students must accumulate twenty-four units over two semesters. All core courses are compulsory. In addition to fulfilling the course requirements for Mode II students, Mode I students must take Mode I core courses and accumulate four further units from options. No student may take the same option twice.

Old and Middle English

FIRST YEAR

All students of English take courses as described under **English**. These will include (1) Introduction to English Language Studies and (2) Introduction to Medieval English Literature.

SECOND YEAR

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

FINAL YEAR

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

Experimental Physics

See separate booklet, Science.

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.

FIRST YEAR

(FR 1000)

A student who has not the equivalent of at least Grade C3 at Honours Leaving Certificate should think carefully before deciding to take French as a subject.

Admission to degree programmes is decided on the results of the First University Examination in Arts. There is a 'language barrier' at this examination; in order to qualify for the second year courses in French, students are required to obtain certain specified standards in the language components of the examination, in addition to adequate marks in other papers. Details of the required standards will be provided by the Department.

The first year programme consists of two courses, all taught over both semesters, largely through French, each covering a key aspect of French studies.

- FR 1005 *French Language*
The overall course aim is to consolidate and extend the skills learned at secondary level by focusing on essential grammatical structures and accuracy in written French as well as developing confidence in spoken French and listening comprehension. The syllabus is organised around formal grammatical exercises, structured writing (*rédaction*), written comprehension (*analyse de texte*), listening comprehension, and practice in spoken French, all based on contemporary written and audio-visual resources. Oral and listening comprehension courses are taken by native French speakers. The course includes four components:
- Written Language Tutorial (1 hour per week);
 - Spoken Language Tutorial (1 hour per week);
 - Written and Spoken Language Lecture (1 hour per week);
 - France-Midi Lecture (listening comprehension) (1 hour per week).
- FR 1003 *Introduction to French Literature*
This course will introduce students to French literature past and present. Drawing on examples of fiction, poetry and drama, it aims to foster literary critical skills through close textual analysis and the broader exploration of themes and structures. The course is taught by weekly lectures and tutorials. Students will be expected to do four pieces of written work during the year.

Notes for First Year Students

- All courses are subject to revision from year to year.
- Arrangements for tutorial groups are made in the first few days of term. Information is posted on the French Department Notice board outside the French Department Seminar (Room A318, stairs A-D, 3rd floor).
- Details of prescribed texts and examination formats are available in the brochure presenting First Year French courses, which may be obtained from the Secretary of the French Department (A314).

SECOND YEAR

(FR 2000)

First Semester

- FR 2001 *Français parlé et écrit (3)*
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.
- FR 2014 *Core Course (2)*
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.
- FR 2011 *French Theatre (2)*
A literature/non-language option taught by weekly lectures and tutorials.

FR 2070 *Option 4 (2)*
Introduction à la sociolinguistique. A literature/non-language option taught by weekly lectures and tutorials.

Second Semester

FR 2051 *Français parlé et écrit (3)*
Language Course. Prerequisite: FR 2001

FR 2064 *Core Course (2)*
Reading the Nineteenth-century. Prerequisite: FR 2014.

FR 2080 *Option 3 (2)*
Introduction à l'âge des Lumières. A literature/non-language option taught by weekly lectures and tutorials.

FR 2061 *Medieval French Literature (2)*
A literature/non-language option taught by weekly lectures and tutorials.

Notes for Second Year Students:

- All courses are subject to revision from year to year. Details of courses and options available in 2003/2004 may be obtained from the Secretary of the French Department (Room A314) from the end of May 2003.
- All language and core courses are compulsory.
- In addition, students select one option in each semester.

FINAL YEAR (FR 3000)

First Semester:

FR 3001 *Français parlé et écrit (2)*
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, concentrating on techniques of translation, written expression, and the comparative stylistics of English and French. The study of French and francophone civilisation forms an integral element of this course.
Prerequisites: FR 2001 and FR 2051

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

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

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

FR 3019 *Option 3 (2)*
Cinéma français. A literature/non-language option taught by weekly lectures and tutorials.

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Second Semester:

- FR 3051 *Français parlé et écrit (3)*
Language course. Prerequisite: FR 3001
- FR 3070 *Option 1 (2)*
Marginality in contemporary fiction and film. A literature/non-language course taught by weekly lectures and tutorials.
- FR 3071 *Option 2 (2)*
The literature of Quebec. A literature/non-language option taught by weekly lectures and tutorials.
- FR 3069 *From Modernity to Postmodernity (2)*
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 2003/2004 may be obtained from the Secretary of the French Department (Room A314) from the end of May 2003.
- Courses FR 3001 and FR 3051 are compulsory for all students.
- Students select two option courses in each semester.

Gaeilge

An Nua-Ghaeilge

Cúrsa cuimsitheach acadúil é siollabas na Nua-Ghaeilge a bhfuil mar aidhm leis eolas domhain a thabhairt ar an nGaeilge agus ar an oidhreacht liteartha agus chultúrtha a bhaineann léi. Sa chéad bhliain déantar staidéar téacsúil ar an scríbhneoireacht chomhaimseartha. Sa dara agus sa tríú bliain déantar cúrsa leanúnach céime i léann na Gaeilge idir theanga is litríocht. Cuirtear rogha an-fhairsing ar fáil.

Is í an Ghaeilge gnáth-theanga na Roinne agus is trí Ghaeilge a dhéantar an cúrsa iomlán. Éilítear caighdeán ard i labhairt agus i scríobh na teanga agus, mar sin déantar cúram faoi leith de labhairt, scríobh agus ghramadach na Gaeilge sa chúrsa trí chéile. Cuireann an Roinn cabhair airgid ar fáil do mhic léinn chun tréimhse a chaitheamh sa Ghaeltacht. Tá cnuasach cuimsitheach ábhair sa Teanglann idir sheanchas, cheol is amhránaíocht ón uile cheantar Gaeltachta.

Sa Chéad Bhliain is féidir an Nua-Ghaeilge a thógáil i dteannta aon ábhair eile ach amháin *Iodáilis* nó *Fealsúnacht*. Sa Dara agus sa Tríú Bliain is féidir an Nua-Ghaeilge a thógáil

(a) i dteannta aon ábhair eile (ach amháin *Iodáilis* nó *Fealsúnacht*).

(b) mar ábhar sa Léann Ceilteach (Modh III).

(c) mar ábhar leis an Sean-Ghaeilge (Modh I).

AN CHÉAD BHLIAIN

(IR 1000)

An Chéad Seimeastar

- IR 1001 *Scribhneoireacht an lae inniu I*
IR 1004 *Labhairt na Gaeilge*
IR 1005 *Léamh agus scríobh na Gaeilge*

An Dara Seimeastar

- IR 1002 *Oidhreacht na Gaeilge I*
IR 1003 *Cúlra na nualitriochta*
IR 1006 *Scribhneoireacht an lae inniu II*
IR 1007 *Oidreacht na Gaeilge III*
IR 1009 *Labhairt na Gaeilge*
IR 1010 *Léamh agus scríobh na Gaeilge*
IR 1011 *Oidhreacht na Gaeilge II*

AN DARA BHLIAIN

(IR 2000 - Mode II)
(IR 2100 - Mode I)

An Chéad Seimeastar

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

An Dara Seimeastar

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

AN TRIÚ BLIAIN

**(IR 3000 - Mode II)
(IR 3100 - Mode I)**

An Chéad Seimeastar

IR 3001	<i>Labhairt, scríobh is gramadach na Gaeilge I (1)</i>
IR 3002	<i>An Nualitríocht I (1)</i>
IR 3003	<i>Litríocht na Gaeilge Clasaicí I (1)</i>
IR 3004	<i>An Nualitríocht II (1)</i>
IR 3005	<i>Litríocht na Gaeilge 1600-1900 I (1)</i>
IR 3007	<i>An Ghaeilge Chlasaiceach I (1)</i>
IR 3008	<i>Teangeolaíocht na Gaeilge I (1)</i>
IR 3009	<i>Gaeilge na hAlban I (1)</i>
IR 3010	<i>An tSean-Ghaeilge I (1)</i>
IR 3025	<i>Litríocht na Gaeilge 1600-1900 III (1)</i>

An Dara Seimeastar

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

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 TRIÚ 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 14 field classes from the programme of residential and non-residential classes organised by the Department. This programme will vary from year to year and students should consult the Department for further information. Students wishing to take a much wider and deeper range of Geography courses may pursue a Mode I (Single Subject) Honours degree programme. Information on the Geography Department and the courses it offers is also available on the UCD World Wide Web Server 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.

FIRST YEAR (GEOG 1000)

The First Year syllabus comprises lecture courses, tutorials and a field trip programme.

Each student must take seven lecture courses, each of twelve lectures or equivalent. The exact programme of courses will vary from year to year but the following provides a good indication of the likely range of courses available.

- GEOG 1010 *The Human Geography of Global Contrasts*
A perspective is offered on how geographers study the great contrasts in population growth and economic development which divide the modern world into regions of surplus and regions of scarcity.
- GEOG 1021 *Society and Space within the city*
An examination of the residential segregation, social activity patterns and human territoriality.
- GEOG 1022 *Geomorphology*
This course will include a review of geomorphology at the global scale. Topics to be discussed will include global relief features in relation to lithospheric plate motions and geomorphic process systems.
- GEOG 1023 *The Shaping of the Irish Landscape*
This course examines how physical, social, cultural and political systems have combined over time to produce the complex and dynamic Irish landscape.
- GEOG 1024 *Global Environmental Issues*
An examination of selected global issues particularly those concerning the earth's climate and human well-being.
- GEOG 1025 *The Form of the European City*
An analysis of the characteristics of cities, mainly in Western Europe, from both an historical and contemporary perspective. The development of Dublin will be placed in this European context.

GEOG 1027 *Introduction to Urban Geography and Planning*

An introduction to the structure of urban systems and the issues that affect urban planning set within the context of increasing urbanisation.

In addition, first year students must participate in tutorials. They must also attend at least two one-day field classes and complete the required assignments.

SECOND YEAR

(GEOG 2000)

The programme of courses offered by the Geography department 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.

GEOG 2001 *Cultural Geography*

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.

GEOG 2012 *Europe*

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.

GEOG 2021 *Geomorphology*

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.

GEOG 2022 *Climatology*

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.

GEOG 2026 *Biogeography*

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.

GEOG 2060 *Geographic Techniques – Practical Course*

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 department 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 Geography department 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 department 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 12 units of coursework during the academic year. They choose 5 from the following group of two-unit courses.

GEOG 3011 *Historical Geography of Ireland in the Nineteenth Century*

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

GEOG 3030 *Urban Geography and Planning*

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.

- GEOG 3031 *Urbanisation in the Wider World*
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.
- GEOG 3055 *The Physical Geography of Rivers*
This course examines the processes, landforms and surface materials of rivers and catchments in the contexts of global environmental change and resource use.
- GEOG 3056 *Glaciation and the Quaternary of Ireland*
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 glacial 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 glacial geomorphology 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 glacial deposits; glaciological and environmental inferences based upon Ireland’s glacial deposits; proposed Quaternary stratigraphies of Ireland; the Holocene interglacial transition in Ireland.
- GEOG 3057 *Cultural Geography of North America*
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 department and will be posted on its website.

- GEOG 3001 *Nature and Culture in Global Perspective*
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.
- GEOG 3002 *Nature, Space and Time*
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 bio-physical dimensions of everyday life, and the sources of stress and creativity in the contemporary world.

- GEOG 3004 *Environment and Development*
This seminar deals with the challenge of harmonising development and environment on the European periphery, emphasising the need for elucidating human as well as bio-physical 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.
- GEOG 3005 *Cartographic Ideas*
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.
- GEOG 3009 *Geomorphological Field and Laboratory Techniques (FL)*
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.
- GEOG 3010 *History and Practice of Geography*
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.
- GEOG 3013 *Settlement and Society in Ireland*
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.
- GEOG 3015 *City of Dreams – the ideal urban settlement*
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.

- GEOG 3024 *Holocene Fluvial Geomorphology (F)*
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 department for details.
- GEOG 3025 *Ice Age Ireland: Field Studies in Glacial Geology (F)*
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.
- GEOG 3026 *Geomorphological Techniques (FL)*
This course builds on GEOG 2008 to enhance skills in Geomorphological mapping, in the environmental interpretation of sediments and in absolute dating. Various pre-requisites apply, contact the department for details.
- GEOG 3037 *Introduction to Retailing*
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.
- GEOG 3038 *Store Location Analysis*
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*).
- GEOG 3039 *Geography of Elections*
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.
- GEOG 3041 *Aspects of the Geography of the Third World*
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.
- GEOG 3042 *Dublin: The Historical Geography of a Capital City*
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.

- GEOG 3043 *The Growth and Development of Dublin in the twentieth century*
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.
- GEOG 3044 *Regional Geography*
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.
- GEOG 3046 *Climate near the Ground*
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.
- GEOG 3059 *Aspects of the Geomorphology of Ireland from Aerial Photographs and Maps*
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.
- GEOG 3060 *Dissertation*
This is a substantial piece of research on a topic approved in advance by the Department. 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 Department 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 Department.
- GEOG 3050 *Field Course*
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 any 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 pre-requisites 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 Department 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 examinations.

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 Department 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.

FIRST YEAR

(GER 1000)

The first year of the BA programme aims at improving students' overall competency in German and at training their study skills to such an extent that they can cope in a university environment.

Study skills: Students will be expected to have mastered the following tasks by the end of the year: students should be able to take useful lecture notes, to use the library, to source information, to write essays in English in an appropriate register.

Literature: By the end of the year students should be able to read selected contemporary literary texts, apply analytical concepts to literary texts, comprehend extracts from older texts, to understand narrative structure and dramatic structure and selected secondary material.

Language: By the end of the year students should be able to read literary and non-literary contemporary texts, give a presentation in German, participate in discussions and master appropriate written assignments. Students should also have a good command of German grammar and be able to tackle weaknesses autonomously.

Semesters 1 and 2

GER 1006 *Lesen und Schreiben*

This course will provide an introduction to reading and writing German texts and will focus on the acquisition of analytical and productive skills.

- GER 1004 *Introduction to Linguistics*
This course introduces the systematic and critical study of language with special reference to German.
- GER 1007 *Hören und Sprechen*
This course aims at improving both oral as well as aural language and communication skills.
- GER 1003 *Introduction to Literature (Prose) – Critical Analysis I*
This course introduces theoretical and practical aspects of critical analysis focussing on examples of contemporary German-language prose fiction.
- GER 1010 *Introduction to German Drama – Critical Analysis II*
This course introduces the critical analysis of German language drama by focussing on two seminal plays: *Woyzek* (Georg Büchner) and *Biedermann und die Brandstifter* (Max Frisch).
- GER 1009 *The Structure of German*
This course deals with a range of essential structures . It aims to help learners of German to understand and analyse these structures and contrast them with those found in English.
- GER 1008 *Panorama*
This course seeks to portray today’s Germany in its various facets. It will attempt to achieve a deeper understanding of Germany’s contemporary situation.

Notes for First Year Students

- All First Year German courses were under review at the time this syllabus was being prepared. Details of the courses and electives available in 2003/2004 will be outlined in the German Departmental Handbook which can be obtained from the German Departmental Office (D321) at the start of the academic year.
- Courses GER 1003, GER 1004, GER 1006 and GER 1007 are compulsory for all students. All other courses are electives. Students may take one elective course per semester only.

SECOND YEAR

(GER 2000)

The second year of the BA programme aims at deepening students’ overall competency in German and at training students’ study skills to such an extent that they can cope in a German university environment.

First Semester

- GER 2001 *Language Classes (Textstunde)*
GER 2002 History of Germany (1750-1900)
GER 2009 Resistance to the System
GER 2012 Introduction to German Opera
GER 2015 Schnitzler
GER 2059 Introduction to Pragmatics and Discourse analysis

Second Semester

GER 2051	Language Classes (Textstunde) (Continuation of GER 2001)
GER 2010	Goethes "Urfaust" und die Moderne
GER 2011	Theories of Language Acquisition
GER 2014	Einführung in das politische System der BRD
GER 2063	Deutschland und Österreich heute
GER 2064	Words Wörter Palavras

Notes for Second Year Students

- All Second Year German courses were under review at the time this syllabus was being prepared. Details of courses and options available in 2003/2004 will be outlined in the German Departmental Handbook which can be obtained from the German Department Office (D321) from the end of June 2003.
- Courses GER 2001 and GER 2051 are compulsory for all students.
- Students have to choose a total of **three options** in the academic year, on aspects of the literature, linguistics, history and economy of the German speaking countries. Either two options may be taken in the first semester and one in the second semester **or** vice versa. It is **not** possible to choose three options in one semester.
- 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 German Department (*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 Department operates a progression rule. For further details, please consult the departmental handbook.

First Semester

GER 3001	Language Classes (Textstunde)
GER 3016	Rhetorik – how to do things with words
GER 3065	Erzählen um 1900
GER 3071	Modern German Film
GER 3075	Modern German-Jewish Literature

Semester Two

- GER 3051 *Language Classes (Textstunde)*
(continuation of GER 3001)
- GER 3067 *Sociolinguistics*
- GER 3069 *Johann Nestroy*
- GER 3070 *Amerika in der deutschen Literatur*
- GER 3072 *Joseph Roth*
- GER 3073 *Music and Literature in German Romanticism*
- GER 3074 *German Minority in Italy*
- GER 3076 *German Reunification – Economic and Political aspects*

Notes for Final Year Students

- All Final Year German courses were under review at the time this syllabus was being prepared. Details of courses and options available in 2003/2004 will be outlined in the German Departmental Handbook which can be obtained from the German Departmental Office (D321) from the end of June 2003.
- Courses GER 3001 and GER 3051 are compulsory for all students.
- Students have to choose **four special subjects** (two per semester) on aspects of the literature, linguistics and history of the German speaking countries. These special subjects are designed to allow students to develop areas of specialised interest.

Greek

FIRST YEAR

Mode A

(GRK 1000)

(Students must have attained a good standard in Greek to enter this course).

GRK 1002 *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

In addition to these courses students will read Thucydides, Book VII.

GRK 1003 *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.

GRK 1004 *Greek History: The Rise and Fall of Athens*

Fifth century Athens was an energetic, cosmopolitan city which was to have an extraordinary impact on western culture. Yet it was to end the century defeated in a long and destructive war, and putting its most famous philosopher to death. This course examines the development of the Athenian empire, the democracy at the heart of it, and the war that broke it. Understanding how to use evidence will be an important part of the course, with particular reference to Thucydides' *History of the Peloponnesian War* and selected inscriptions.

Students taking *Greek* with *Greek and Roman Civilization* will substitute for GRK 1004, Xenophon *Hellenica I*.

Mode B

(GRK 1001)

This course is intended only for students who have done little or no Greek previously. It is not available to students who have Leaving Certificate or equivalent in Greek.

GRK 1005 *Greek Language*

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 textbooks are Wilding, *Greek for Beginners* and Hiner, *Greek Comprehensions for Schools*.

GRK 1007 *Greek History: The Rise and Fall of Athens*

Fifth-century Athens was an energetic, cosmopolitan city which was to have an extraordinary impact on western culture. Yet it was to end the century defeated in a long and destructive war and putting its most famous philosopher to death. This course examines the development of the Athenian empire, the democracy at the heart of it and the war that broke it. Understanding how to use evidence will be an important part of the course, with particular reference to Thucydides' *History of the Peloponnesian War* and selected inscriptions.

Students combining *Greek* with *Greek and Roman Civilization* will, in place of GRK 1007, study a selection of Greek passages.

- * It is recommended that during the summer between First and Second Year, students try to improve their fluency in the language by reading widely in the following: Xenophon, *Anabasis* and Arrian, *Anabasis*.

SECOND YEAR

Mode A

(GRK 2000)

(deemed equivalent to twelve units)

GRK 2002 *Greek Literature* (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*.

GRK 2003 *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.

GRK 2004 *Greek History: The Rise of Macedon*

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)

GRK 2005 *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.

GRK 2006 *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 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.

GRK 2007 Greek History: *The Rise of Macedon*.

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

GRK 3001 *Greek Literature* (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*.

- GRK 3002 *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.
- GRK 3003 *Special subject*
Courses offered in the session 2003/2004 may include:
The Archaeology of Minoan Crete
The Oedipus Myth
After Alexander
Slavery
Plato's *Republic*
Introduction to Neoplatonism; Plotinus
- or
- GRK 3004 Subject to approval by the Head of Department, an extended essay of approximately 12,000 words.

Greek and Roman Civilization

FIRST YEAR

(GRC 1000)

- GRC 1001 *Greek History: The Rise and Fall of Athens.*
Fifth-century Athens was an energetic, cosmopolitan city which was to have an extraordinary impact on western culture. Yet it was to end the century defeated in a long and destructive war, and putting its most famous philosopher to death. This course examines the development of the Athenian empire, the democracy at the heart of it, and the war that broke it. Understanding how to use evidence will be an important part of the course, with particular reference to Thucydides' *History of the Peloponnesian War* and selected inscriptions.
- GRC 1002 *Greek Art and Archaeology: 750-350 BC*
This course is an illustrated survey of the development of Greek art from the Geometric period (750 BC) to the High Classical Period (400 BC) of Classical/Periklean Athens. As well as learning to recognise famous vases, statues and buildings, students are encouraged to read and understand the basic aesthetic principles of ancient art.
- GRC 1003 *Greek Philosophy: Socrates; Plato's Apology.*
The prescribed text for this course is Plato's *Apology* (in translation). The lectures deal with the life of Socrates, early Greek Philosophy, the explanation of Socrates' unpopularity, the argument against the prosecution's charges, the morality and religion of Socrates.

- GRC 1004 *Greek Literature: Homer Iliad and Odyssey* .
The prescribed texts for this course are Homer's *Iliad* and *Odyssey* in translation. The lectures deal with the historical background to Homer, and with the structure, themes, and characters of the two works. The course focuses on the epic heroes Achilles and Odysseus, on the role of the gods in the *Iliad*, and on women in the *Odyssey*.
- GRC 1005 *Roman History: The Fall of the Roman Republic*.
- GRC 1006 *Roman Art and Archaeology: The Roman City*
In this course we are going to look primarily at Pompeii, probably the best preserved Roman town of the Roman empire and find out how it worked and how typical it is for a small town of the Roman empire. Topics covered include the town and its infrastructure, the forum, the baths, the amusement areas, the temples, housing, the economy and the city's hinterland.
- GRC 1007 *Roman Literature. Catullus: Love and Leisure at the end of the Republic*.
The prescribed text for this course is *The Complete Poetry of Catullus*, translated and with a commentary by David Mulroy (University of Wisconsin Press 2002). Catullus, a minor Roman nobleman who rejected a traditional career of public service for a life of leisure, wrote short and expressive poems on themes drawn from mythology, contemporary politics, and his passionate relationship with his mistress 'Lesbia'. Through them we will explore the decadent side of the late Roman Republic as perceived through the eyes of a man who was a gentleman, a scholar, and a lover of life and literature.

SECOND YEAR

(GRC 2000)

(deemed equivalent to twelve units)

- GRC 2001 *Greek History: The Rise of Macedon*.
- GRC 2002 *Greek Art and Archaeology: The Archaeology of Greek Society*.
This course builds on the 1st year 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.
- GRC 2003 *Greek Philosophy: Plato, Phaedo*.
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.

- GRC 2004 *Greek Literature: 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.
- GRC 2005 *Roman History: The Early Roman Empire.*
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.
- GRC 2006 *Roman Art and Archaeology: Imperial art and architecture.*
Official art in the Roman empire was more than just decoration for the towns of the Roman empire. It fulfilled a vital political role. During the course we will look at the "language" of Roman art and learn how to read the political messages in some of the big monuments in Rome and elsewhere, and how this "language" survived into European culture. The period covered is the first to fifth century.
- GRC 2007 *Roman Literature: The Satires of Horace, Persius and Juvenal, The Satires* (World's Classics, trans. N. Rudd).
Satire was the only literary form which the Romans invented. The three authors covered – Horace with his urbane moralising, Persius with his doctrinaire preaching and Juvenal with his bitter tirades – give us an insight into the realities of life in Rome.
- GRC 2008 *Ancient Society: Stoics and Epicureans.*
The Stoics and Epicureans were the two philosophical movements which had the greatest direct influence on the everyday lives of ancient Greeks and Romans. They held that a moral code could be based on reasoned argument in the context of an understanding of our physical environment. This course examines how they justified their moral code and the kind of physical universe which they claimed we inhabit. As far as possible this will be done through the words of the philosophers themselves, in the case of the Epicureans through Lucretius' poem *On the Nature of the Universe*.

FINAL YEAR (GRC 3000)

(deemed equivalent to twelve units)

Subject to certain restrictions in choice, students will be required to choose four courses from a list of courses which will be offered each year. Subject to approval by the Head of Department, a student may substitute an extended essay (GRC 3010) of approximately 12,000 words for one of these courses. The following courses may be offered in the session 2003/2004:

GRC 3001	<i>The Archaeology of Minoan Crete</i>
GRC 3003	<i>The Oedipus Myth</i>
GRC 3004	<i>Roman History 60-50 B.C.</i>
GRC 3008	<i>Introduction to Neoplatonism: Plotinus</i>
GRC 3014	<i>Slavery</i>
GRC 3015	<i>Plato's Republic</i>

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

FIRST YEAR

(HEB 1000)

HEB 1001	Hebrew Grammar Text: T.O. Lambdin, <i>Introduction to Biblical Hebrew</i> .
HEB 1002	Translation of prescribed texts (as found in Lambdin) and unseen <i>passages</i> .
HEB 1003	Introduction to History and Literature of Israel.

SECOND YEAR

(HEB 2000)

HEB 2001	<i>Hebrew Prose Composition (2)</i> Instruction and practice in translation from English to Classical Hebrew prose. The course includes lectures on Hebrew syntax, and practice in the accurate vocalisation of unpointed texts.
HEB 2002	<i>Hebrew Texts I (2)</i> The Hebrew short story; Ruth, Esther.
HEB 2003	<i>Hebrew Texts II (4)</i> The textual and literary analysis of the Deuteronomic tradition with particular reference to the book of Deuteronomy and certain prophetic books.
HEB 2004	<i>Hebrew Texts III (2)</i> A study of Hebrew, Moabite and Phoenician inscriptions.

HEB 2005 *Seminar: The History of Israel (2)*
Methodological issues in the study of Israelite history.

FINAL YEAR (HEB 3000)

- HEB 3001 *Hebrew Prose Composition (2)*
Instruction and practice in translation from English to Classical Hebrew prose. The course includes lectures on Hebrew syntax, and practice in the accurate vocalisation of unpointed texts.
- HEB 3002 *Hebrew Texts I (2)*
The textual and literary analysis of the so-called “Succession Narrative” – 2 Sam 9-20; 1 Kings 1-2.
- HEB 3003 *Hebrew Texts II (4)*
An exact and detailed examination of selected prophetic books of the Old Testament. The course will include textual criticism, philological analysis, literary and form criticism and an examination of the historical setting of the texts.
- HEB 3004 *Hebrew Texts III (2)*
The Dead Sea Scrolls. A study of selected texts discovered at Khirbet Qumran, including the *Manual of Discipline*, the *Pesher of Nahum*, and the *Pesher of Habakkuk*.
- HEB 3005 *Introduction to the Textual Criticism of the Hebrew Bible (2)*
An investigation into the textual history and transmission of the Hebrew text, and that of the early versions of Greek, Aramaic and Syriac, and the Dead Sea.

Hellenistic Greek

(Minor Subject in Mode III Near Eastern Languages)

FIRST YEAR

Courses not offered.

SECOND YEAR

(HGRK 2000)

(For Mode III)

- HGRK 2001 Prescribed texts: Selected passages from the Acts of the Apostles, and the New Testament Epistles; Polybius; Plutarch; the Didache.
- HGRK 2002 The history of the text of the New Testament.
- HGRK 2003 The history of Hellenistic Greek literature, with particular reference to New Testament literature.

FINAL YEAR (HGRK 3000)

(For Mode III)

HGRK 3001 Prescribed texts: Selected passages from the four Gospels; selected passages from the Septuagint; Philo Judaeus; selected papyri; Clement's Epistle to the Corinthians.

HGRK 3002 The distinguishing grammatical features of New Testament Greek.

HGRK 3003 The history of the Septuagint.

Note: For the unit values of courses in Hellenistic Greek, please consult the Department of Near Eastern Languages.

History

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

The School of History contains four established chairs, each representing one broad area of historical study. These areas are: Modern History, Modern Irish History, Medieval History and Early (including Medieval) Irish History. There are also visiting chairs of American and Australian History. Students may concentrate on one or other of the four areas at different stages of their university careers.

There is 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.

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

The departments teach through tutorials, seminars and lectures. In the tutorial system students meet weekly or fortnightly in groups; write essays regularly throughout the year; and 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, and 25% of the marks in the first, second and third year examination *will* be awarded for students' tutorial performance.

FIRST YEAR

(HIS 1000)*

For timetable purposes History is a B subject and can, therefore, be taken with subjects from any of the other sections listed on page 10. It cannot be taken with Greek, Welsh, Music or Statistics. Students must ensure that their initial choice of subjects enables them to pursue the combination they wish in second and third year.

Courses in first year are designed to introduce students to the study of history at university level. There are two courses, each of which examines historical problems in a variety of countries over a long chronological period.

The following courses were offered in 2002/2003. The syllabus in 2003/2004 will broadly be similar but not identical. There will also be courses in American history.

HIS 1001 *The Revolutionary Experience in Modern Europe: France, Russia and Ireland 1789-1917.*

Revolts against authority are common in history, but revolutions are less so. The first real revolution occurred in England during the seventeenth century, but they became more common in the eighteenth century and were a major feature of European and world history until the late twentieth century. How does a revolution differ from a revolt? What are the common features of a revolution? Why do they differ from one another? Are they positive or negative in their effects? Why are they violent? These are some of the questions that the course will attempt to answer, by focussing on four revolutions which did bring about radical change and one which failed to: the French Revolution of 1789, the Paris Commune of 1871, the Russian revolution of 1917 and the United Irish rebellion of 1798.

HIS 1002 *Colonies and Empires in World History since the Middle Ages*

Throughout history civilisations have risen and fallen. This process has often resulted in colonisation and the creation of empires. How do we define colonisation and empire? How are empires created? What factors encourage states to expand? How do states justify expansion and the creation of colonies? What role do religion, ideology, economics and politics play in the drive towards empire? How do colonists treat native populations and what is the fate of indigenous populations? What images do each have of the other? What part do ideas about race play in the colonisation process? Why do empires decline? Are all empires and colonisation processes the same, or have they changed over time and in different places? These are some of the questions that this course will cover, by looking at four case studies: the emergence of early medieval Ireland from the collapse of the Roman Empire and the expansion of Irish colonies in Britain, the Norman conquest of Ireland in the twelfth century, the Spanish empire in South America, 1492-1792; and the collapse of empire in Ireland in the early twentieth century. In addition to attending lectures, you will write four essays on the course in tutorials and sit a three-hour examination at the end of the year.

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

Mode I only

First Year Mode I students take two courses, as outlined above, and also

HIS 1901 *History Seminar*

SECOND YEAR

(HIS 2000)*

In second year, Mode II (HIS 2000) students take course HIS 2001 and two 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 three courses, as outlined above, and also HIS 2901, HIS 2902, HIS 2903.

HIS 2001 *Topics in European culture and society, 600-1700 (4)*

HIS 2103 *Ireland in the 'Golden Age', 650-750 (4)*

HIS 2104 *Sexuality and society in early medieval Ireland (4)*

HIS 2201 *The Crusades (4)*

HIS 2203 *The age of the Vikings (4)*

HIS 2206 *Britain and Ireland, 1100-1400 (4)*

HIS 2305 *Australian history (4)*

HIS 2316 *The United States, 1877-1952 (4)*

HIS 2317 *The German military in politics and society, 1800-1989 (4)*

HIS 2321 *The Catholic Reformation in Europe: causes and consequences (4)*

HIS 2322 *The Tudor dynasty, 1485-1603 (4)*

HIS 2403 *Enlightenment in national context: France, Ireland and Scotland in the eighteenth century (4)*

HIS 2404 *Society and culture in early modern Ireland (4)*

HIS 2405 *A history of Ulster from 1800 to the present (4)*

HIS 2406 *The role of women in Irish society, 1870s-1970s (4)*

HIS 2407 *Irish emigration, 1840s-1960s (4)*

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 three 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 three 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 Department Office.

- HIS 3103 *The Book of Kells and its world* (4)
HIS 3106 *The legacy of the Roman world, 350-750* (4)
HIS 3202 *Medieval Dublin* (4)
HIS 3203 *The Italian Communes* (4)
HIS 3204 *Churches and peoples: religion in late medieval and early modern Ireland* (4)
HIS 3207 *From the Crusades to Christopher Columbus: Europe and the wider world* (4)
HIS 3209 *The age of Charlemagne, c.750-814* (4)
HIS 3210 *Twelfth-century Renaissance* (4)
HIS 3211 *Medieval Germany: empire and papacy, 950-1250* (4)
HIS 3302 *The Dutch Republic and its seaborne Empire, c.1559-c.1804* (4)
HIS 3306 *The US Civil War* (4)
HIS 3311 *Australian history* (4)
HIS 3314 *Early modern France, 1530-1715* (4)
HIS 3317 *Nineteenth-century Paris: politics and culture* (4)
HIS 3318 *Australian history* (4)
HIS 3320 *The Irish in America* (4)
HIS 3325 *Demography and morality in western Europe, 1880-1950* (4)
HIS 3331 *Britain and European integration, 1945-1990* (4)
HIS 3332 *Nazism* (4)
HIS 3333 *Seventeenth-century Britain: revolution and restoration, 1603-1689* (4)
HIS 3334 *John Evelyn and Samuel Pepys: diaries of Restoration England* (4)
HIS 3335 *The Russian tradition: state and society in Russia* (4)
HIS 3404 *Poverty and public health in nineteenth-century Ireland* (4)
HIS 3409 *The Irish Revolution, 1910-23* (4)
HIS 3411 *Landlords and tenants: law and society in nineteenth-century Ireland* (4)
HIS 3415 *Between the Unions: political culture in Ireland and Scotland, 1707-1801* (4)
HIS 3416 *From 'Revolution' to 'Independence': Ireland, 1689-1782* (4)
HIS 3417 *Death and the undead in late medieval and early modern Britain and Ireland* (4)
HIS 3418 *Sport and modern society* (4)
HIS 3419 *The Irish home rule movement, 1870-1921* (4)
HIS 3420 *Print culture in Ireland, 1840-1940* (4)

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

FIRST YEAR

(HA 1000)

The survey course in First Year is designed to introduce students to the history of art from Antiquity to Modernism. Incorporated into the chronological survey is one lecture per week on the tools of Art and Art History. The course comprises four lectures per week and one tutorial. Students are expected to write essays and fulfil slide test requirements. Prospective students should note that a prior knowledge of art history is *not* essential for the First Year programme.

HA 1005 *Survey 1: Ancient and Medieval Worlds (3)*

The course opens with an examination of what is painting, sculpture and architecture. In Survey 1 the art of ancient Greece and Rome is explored, followed by the art of the Early Christian Period. Byzantine, Romanesque and Gothic are also addressed. Specific buildings such as the Parthenon and Chartres Cathedral are examined. Studies in technique include vase painting and marble and bronze sculpture.

HA 1006 *Survey 2: Late Medieval and Renaissance Art (3)*

The work of Giotto introduces the late Medieval period, which also includes Duccio and the Sienese painters. A study of Early Netherlandish painting includes specific examination of Van Eyck's *Ghent Altarpiece*. A general introduction to the Florentine and High Renaissance is given in conjunction with studies into the techniques of fresco and oil painting. The work of Brunelleschie, Piero della Francesca, Leonardo, Michelangelo and Raphael is considered individually. Survey 2 ends with a study of Mannerism.

HA 1007 *Survey 3: Art and Architecture of the 16th and 17th centuries (3)*

This course comprises an introduction to Venetian 16th century painting, examining in particular the work of Titian and Tintoretto. The architecture of Andrea Palladio is studied and technical studies include consideration of architectural drawings. Baroque art and architecture in Italy, France, Spain and Dutch 17th century art form a major part of this course. Individual artists such as El Greco, Durer and Holbein are also examined.

HA 1008 *Survey 4: From Rococo to Modernism (3)*

This course begins with an exploration of Rococo art, focussing on Watteau and 18th century Venetian painting. This is followed by a study of British portraiture of the 18th century and the art of Neoclassicism. 19th century topics include Romanticism, Realism and Impressionism. Survey 4 concludes with an examination of Cubism and Abstract art. The techniques of pastel and watercolour are studied in this course and theories of colour are explored.

SECOND YEAR

(HA 2000)

- HA 2002 *Mannerism (3)*
16th Century Mannerism represents one of the most intriguing and startling phases in Western art. Once maligned as a degenerate reaction against the values of the High Renaissance, Mannerism is now appreciated for its intellectual intensity and precocious, expressionist tendencies. The cultural principles that gave birth to the style are also of crucial interest in that they led to the establishment of Art History as a subject under the stewardship of the Mannerist painter and critic, Giorgio Vasari (1511-1574). However, Mannerism continues to occupy a problematic position in the History of Art, awkwardly sandwiched between the High Renaissance and Baroque styles. Both its character and development remain controversial. This course provides a survey of Mannerism from its emergence in Florence and Rome during the High Renaissance, to its flowering as an international movement. In addition to supplying profiles of leading mannerist artists, this course will also exercise a strong interest in the aesthetic debates that had a direct bearing on the development of the style. While a strong visual sense remains a prime concern, students are required to engage with theoretical and contextual issues to a more sophisticated degree than hitherto expected. To this end, Mannerism will be discussed within the context of the socio-political upheavals of the period. Associated topics include the Sack of Rome, Medicean power struggles in Florence and the impact of the Counter Reformation.
- HA 2003 *Modernism (3)*
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. The course will end with an outline of the manner in which contemporary art practices relate to and reassess Modernism.
- HA 2008 *Irish Painting (3)*
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.
- HA 2006 *Medieval Art and Architecture (3)*
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. The artistic activities of the Gothic period in terms of architecture, sculpture, stained glass painting, precious objects, and the illuminated manuscript are explored. Finally, the course considers the overall evolution of the Gothic form in Western Europe.

Notes for Second Year Students

- Students must accumulate the twelve units described above.
- Please note that courses are subject to change from year to year. Details of recent changes are available from the Department Office.

FINAL YEAR (HA 3000)

HA 3011 *Rembrandt in Context (1.5)*

This course will look at the work of one of the seventeenth century's most prominent artists in his full social, cultural and economic context. There has recently been a great deal of controversy about the limits of Rembrandt's oeuvre; a team of Dutch art historians (the Rembrandt Research Project) have devoted themselves to reassessing the authenticity of painting traditionally believed to be by the master. One of the concerns of this course is with critically evaluating the approach and working methods of the Project. Apart from questions of attribution, we will also investigate other issues surrounding Rembrandt: how he sold and marketed his work, his studio practice, his methods of instructing his apprentices and assistants, and so forth. One of the more positive aspects of the work of the Rembrandt Research Project is that the reputation of many of Rembrandt's pupils has been greatly enhanced. Many of these artists, who were relatively unknown until recently, are now regarded as important independent figures in their own right, who were capable of rivalling Rembrandt on occasion. This course will conclude by studying the work of these pupils and assessing both its debt to and independence of Rembrandt.

HA 3022 *The Grammar of Ornament and the Decorative Arts 1500-1800 (1.5)*

This lecture course examines three centuries of European decorative design and the applied arts from the High Renaissance in Italy to the Neoclassical movement in the second half of the eighteenth century. The lectures will deal with decorative design and the applied arts in Britain and the Continent and with stuccowork, and all aspects of the applied arts in Ireland from c.1550-1800.

HA 3017 *Discovering Antiquity: the contribution of Irish Scholars (1.5)*

The architecture, painting, sculpture and decorative arts of the 18th century in Europe (the Age of Enlightenment or age of Neo-classicism) was stimulated and propagated by the travel literature of the period. This course examines the role of Irish travellers, scholars and patrons in the publication of books of travels and their illustrations, which served as models to architects and artists. The period to be covered will be from the travels of Bishop Berkeley in the first decade of the century to those of James Cavanah Murphy in final decade, with concentration on the middle decades. Attention will also be paid to iconography of the scholar-artist in the explorations in Italy, Greece, the Near East and the Iberian peninsula, and to the impact of the works on the practice of the arts in Ireland and elsewhere.

- HA 3021 *The Myth of Venice (1.5)*
This course examines the art of Venice during its so-called golden age of the 15th and 16th centuries. The work of leading Venetian painters, sculptors and architects will be placed within the socio-political context of the city. A particular emphasis will be placed on how the mythology of the Venetian Republic was sustained through its art and architecture.

Lecture and Seminar Options

This course has been designed to afford each third-year student the opportunity to contribute to seminar work in either of the two semesters of twelve weeks. In one semester the student will be a member of a Lecture course (3 units) and in the other a member of a Seminar course (3 units). All third year students must do both in the course of the academic year, and at the first session of the class a form of questionnaire will be circulated to allow students to express their preferences. It must be clearly understood however that in the interest of balancing seminar numbers it may not be possible to give all students the lecture course or seminar of their first choice.

The first semester material is a lecture course *Modern Architecture* and the seminars *Irish Art: Modernism & Post Modernism* and *Aspects of Sculpture from Neoclassicism to Post-Modernism*.

The second semester material is a lecture course *French Painting in the Seventeenth Century* and the seminars *Classical Art* and *The History of Print*.

- HA 3018 *Modern Architecture* (Lecture course: Semester 1)
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. Architects will include Sir Edwin Lutyens, Charles Rennie Mackintosh, Antoni Gaudi, Louis Sullivan, Frank Lloyd Wright, Le Corbusier, Mies Van der Rohe, Robert Venturi and Carlo Scarpa. The course will also address the broader theoretical and ideological concerns of twentieth-century architectural debate. Students will be encouraged to relate their studies to twentieth-century architecture in Ireland and a number of site visits will be incorporated in the programme.
- HA 3008 *Irish Art: Modernism and Post-Modernism* (Seminar: Semester 1)
This course will look at the major developments in Irish art from 1939 to 1990. A central theme of the lectures will be the expansion of painting and sculpture throughout the country and internationally. The course will look at the national, corporate and private patronage involved, and the roles of the artists-galleries and exhibition in the development of Irish art. It will discuss to what extent Irish art has reflected the modernisation of Irish society and influenced its modernisation, and how Irish artists have responded to international art practices in this period.

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.

The four first year courses provide a basic foundation in key areas of the subject, namely: information use in society, literacy and reading patterns, the organisation of information, and information design. Students have the opportunity to study specific aspects of each of these areas in further 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.

FIRST YEAR

(IS 1100)

Each student takes the following four foundation courses:

IS 1112 *Presentation of Information I*

This two-unit course introduces students to the main modes and media through which information is presented and communicated. It begins with printed information, analysing the characteristics of the external and internal forms of a range of typical information documents (formats, typography, typographic structuring and cueing, conventions) and critically assessing these against a document's intended function. Next, the characteristics and potential functions of alternatives to the printed word in presenting information are examined (still pictures and symbols, diagrams, charts, maps, films and video) and their use in sample applications is assessed. The final focus of the course introduces students to computer-based presentations, including multimedia, and considers whether key principles emerging in earlier sections of the course may be applied to presentations on the electronic screen.

IS 1113 *Information and Society*

This two-unit course introduces students to the general phenomenon of information generation and use in society, looking at broad perspectives and general trends. Three issues dominate discussion: the historical rise of an Information Society, the conceptualisation of information, and a review of the history of attempts to establish political control over the generation and use of information since the development of printing. The course develops in students an ability to construct arguments which assist the development of understanding about the role of information as a cultural phenomenon today.

IS 1142 *Print Culture, Publishing and Communications*

This two unit foundation course assesses literacy and reading patterns in Ireland and internationally. The rise of literacy in the western world and issues of present day adult literacy world-wide are explored. Important components of the course include: reading patterns past and present, the culture of reading, and book reception history. An exploration of popular literature of the eighteenth and nineteenth centuries to the present day, including the effect of new technologies on reading patterns, is undertaken. The course provides a context for assessing the experience of reading and general patterns of print media consumption in both current and recent generations of Irish society.

IS 1151 *Organisation of Information*

This two-unit foundation course examines the ways in which information is organised and represented in retrieval systems for a wide range of applications and users. It presents an overview of the principles of information retrieval and relates these to practice in libraries, museums, art galleries, archives and other information agencies. Specific topics covered include: conceptual approaches to the organisation of information; information items, surrogates and metadata; subject content analysis; electronic data models; retrieval issues for textual, visual and audio items. The relationships between alternative approaches to the organisation of knowledge are explored, e.g. philosophers' approaches to classification, general library classification schemes; catalogues and indexes.

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.

IS 2211 *Introduction to Human Information Behaviour* (2 units)

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.

IS 2212 *Introduction to Human Information Behaviour* (2 units)

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.

IS 2221 *Communications and the Consumer* (2 units)

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.

IS 2241 *General Information Resources* (2 units)

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.

IS 2261 *Introduction to Computers* (2 units)

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.

IS 2262 *Introduction to Databases* (2 units)

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.

IS 2263 *Design of Information Systems* (4 units)

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 identify 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 First Year Computer Science, is a prerequisite for this course.

IS 2265 *Presentation of Electronic Information* (2 units)

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 *Electronic Publishing*.

THIRD YEAR (IS 3300)

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:

IS 3311 *Information Policy* (2 units)

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.

IS 3312 Culture, Information and Technology (2 units)

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.

IS 3323 History of the Book (2 units)

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 Departments/Centres. It foresees the preparation of research themes in the domain.

IS 3331 Management of Information Agencies (2 units)

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.

IS 3344 Introduction to Electronic Resources (2 units)

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.

IS 3347 Literature for Children (2 units)

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.

IS 3365 Electronic Publishing (2 units)

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.

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

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.

IS 3446 *European Information Markets* (2 units)

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.

IS 3461 *Telecommunications and Networks* (2 units)

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

FIRST YEAR

(EMIR 1000)

- EMIR 1001 *History of Early Irish literature.*
EMIR 1002 *Outline of Early Irish social, religious and cultural institutions.*
EMIR 1003 *Introduction to Old and Middle Irish.*
EMIR 1004 *Elementary study of selected early Irish texts in prose and verse.*

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

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*
EMIR 2MIN *Minor Subject in Celtic Studies (Mode 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 first year course. Courses will be chosen from the above list in consultation with the department.

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 Department.

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

FIRST YEAR

Courses not offered.

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 field work.

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.

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 first year 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 Department will provide help and advice for those visiting Italy to satisfy this requirement.

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

FIRST YEAR

(ITAL 1000)

The main emphasis in first-year Italian is on language: two-thirds of all classes are language classes (grammar classes, reading classes, language laboratory sessions and conversation classes), and half the marks in the examination are allocated to language work. But courses are also given on the history of modern Italy and on twentieth-century literary texts, thus consolidating the student's grasp of the contemporary language.

There are separate language classes for beginners and non-beginners, but otherwise all students are taught together and take the same examination at the end of the year. This is because many students discover their ability and interest in languages only when they come to university. A proportion of the marks in the examination will be allocated to written work presented during the year. In order to be admitted to the examination, students must have attended all classes throughout the year and carried out all assignments.

SECOND YEAR

(ITAL 2000)

Six units are taken in each semester, as follows:

First Semester:

ITAL 2011 *Italian Language (3)*

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

ITAL 2012 *Italian Language and Literary Culture (1)*

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.

ITAL 2013 *Italian Literary Texts (2)*

Including Machiavelli (*Mandragola*), Calvino (*Il sentiero dei nidi di ragno*), Ginzburg (*Lessico familiare*) and Sciascia (*Il contesto*).

Second Semester:

- ITAL 2021 *Italian Language (3)*
Comprehension; translation from and into Italian; prose composition; conversation.
- ITAL 2022 *Italian Language and Literary Culture (1)*
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.
- ITAL 2023 *Italian Literary Texts (2)*
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:

- ITAL 3011 *Italian Language (3)*
Comprehension; translation from and into Italian; prose composition; conversation.
- ITAL 3012 *Aspects of Italian Cultural History (3)*
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:

- ITAL 3021 *Italian Language (3)*
Comprehension; translation from and into Italian; prose composition, conversation.
- ITAL 3022 *Aspects of Italian Cultural History (3)*
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

FIRST YEAR

Mode A

(LAT 1000)

Students must have a good standard in Latin to enter this course.

LAT 1002 *Latin Literature: The Late Republic* (each of the following courses is taught by weekly reading classes throughout one semester)

(a) *The Life and Times of Cicero*

Cicero *Pro Caelio* (ed. Austin, OUP). In addition students will read a selection from *Cicero Letters* (ed. Shackleton Bailey, CUP).

(b) *Poetry of Passion and Intellect: Catullus and Lucretius*

Catullus: the Shorter Poems (ed. Godwin, Aris & Phillips)

Lucretius *De Rerum Natura* 5. 925-1457

LAT 1003 *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.

LAT 1004 *Roman History: The Fall of the Roman Republic.*

Students taking *Latin* and *Greek and Roman Civilization* will, in place of LAT 1004, read extra passages from *Cicero Letters* (ed. Shackleton Bailey, CUP).

Mode B

(LAT 1001)

This course is intended only for students who have done little or no Latin previously.

LAT 1005 *Latin Language*

The course is designed for beginners and aims to offer 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*.

LAT 1007 *Roman History: The Fall of the Roman Republic.*

Students taking *Latin* with *Greek and Roman Civilization* will, in place of LAT 1007 study extra passages from *Wheelock's Latin*.

SECOND YEAR

Mode A

(LAT 2000)

(deemed equivalent to twelve units)

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

(a) *An Epicurean's account of the world's construction and of life's development on earth*

Lucretius, the finest Latin poet, apart from Virgil, works up to his story of the human species from its primitive origins to its advanced civilisation. The course will concentrate on Lucretius, *De Rerum Natura*, Book V.

(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 craftsmanship.

(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*.

LAT 2003 *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.

LAT 2004 *Roman History: The Early Roman Empire*

The Roman Empire from the assassination of Caesar to the natural death of Hadrian with particular emphasis is 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.

Mode B

(LAT 2001)

(deemed equivalent to twelve units)

LAT 2005 *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 1 (ed. Goold & Whiteley, BCP). In addition students will read the *Res Gestae Divi Augusti*.

- LAT 2006 *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.
- LAT 2007 *Roman History: the Early Roman Empire*
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.

FINAL YEAR (LAT 3000)

Modes A and B (deemed equivalent to twelve units)

- LAT 3001 *Latin Literature: The Age of Empire* (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).
- LAT 3002 *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.
- LAT 3003 *Special Subject*
Courses in the session 2003/2004 may include:
Slavery
Roman History
Epic after Virgil
- or**
- LAT 3004 Subject to approval by the Head of Department, an extended essay of approximately 12,000 words.

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 Linguistics Department 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 *First Year* 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. First year students are expected to take all courses listed below (under First Year) equally distributed over two semesters. Courses take place over one semester (see the Departmental Handbook for the distribution of the courses over the two semesters). In addition, First year students are expected to attend the following:

- (a) a weekly Lab session in the first semester *and*
- (b) a weekly tutorial hour in both semesters.

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 12 course units per year (6 course units in each semester). All core courses and options are worth 2 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 Departmental Handbook for additional information, including availability and overlap.

FIRST YEAR

(LING 1000)

LING 1010 *Sounds and Sound Structures*

This course is an introduction to the area of Linguistics that deals with the study of the sounds found in human languages, in particular, how they are produced (Phonetics), and to the related area that deals with how sounds are distributed and structured in particular languages (Phonology). The course involves additional Lab sessions designed to enhance listening skills (i.e. ear-training) and develop expertise in transcription.

- LING 1011 *Language Use and Communication*
This course investigates how language is used and manipulated to achieve the desired effects in various forms of communication, taking into consideration the medium of delivery (e.g. spoken versus written language, words versus images), the setting (e.g. formal versus informal settings), the nature of the audience (mass versus professional), among other things. One of the main objectives of the course is to examine how these parameters influence the various strategies of communication used.
- LING 1012 *Word Structure and Meaning*
This course is an introduction to the area of linguistics that deals with the derivation of complex words from smaller bits of language, and how different combinations lead to different word meanings (Morphology), e.g. 'rice-pudding' is a type of pudding whereas 'pudding-rice' is a type of rice.
- LING 1013 *Languages of the World*
This course is an introduction to the area of Linguistics that deals with the classification of languages along genetic lines, leading to language families (genetic classification), and typological lines, leading to language groups based on similarities in sound systems, word order and so on (Typological classification).
- LING 1014 *Language Disorders*
This course is an introduction to the area of Linguistics that concerns itself with the study of language disorders (Neurolinguistics). The overall objective is to see how linguistics concepts and analytical tools are necessary for a proper understanding of the curious patterns of language breakdown (types of disorders), and conversely, how the patterns of language breakdown shed light on our understanding of how language works and how it is represented in the mind/brain. The disorders discussed range from genetically determined disorders (such as Specific Language Impairment (SLI)), which affect children acquiring their first language, to disorders acquired as a consequence of trauma to the language centres of the brain (such as Anomia and Agrammatism in Broca's Aphasia), which affect individuals who previously had a normally functioning language.
- LING 1015 *Language in Social Context*
This course is an introduction to the area of linguistics that deals with language use in relation to social and cultural contexts (Sociolinguistics). It examines how language is used and perceived in relation to a number of social and cultural variables, including the following: regional and social variation; gender differences; bilingual and multilingual settings; language choice; languages in contact; language change; language death; and language attitudes and stereotypes.

- LING 1016 *Language Development*
This course is an introduction to the area of Linguistics that deals with language development (or Language Acquisition). It examines both first language acquisition from birth and second language acquisition by individuals who already have a complete first language. Among other things, it includes a survey of known milestones in first and second language acquisition, and compares them with the aim of identifying similarities and differences. The answer to the question whether first and second language acquisition are fundamentally the same or involve entirely different mechanisms sheds significant light not only on how language develops but also on whether there are biological, psychological and maybe also social constraints on its development.
- LING 1017 *Sentence Structure and Meaning*
This course is an introduction to the area of Linguistics that deals with how words are organised into phrases and phrases into sentences, and how different patterns of organisation and different structures are associated with different meanings (Syntax). For example, the sentence, He kicked the bucket, can have the idiomatic meaning 'he died' in addition to the literal meaning. In contrast the sentence, The bucket was kicked by him, can only have the literal meaning even though it is made up of basically the same content words.

SECOND YEAR

(LING 2000)

All Courses and Options are deemed equivalent to 2 units.

Core Courses

- LING 2010 *Phonology*
LING 2011 *Syntax II*
LING 2012 *Semantics*
LING 2013 *Language Variation and Change*

Options

- LING 2014 *English as a Global Language*
LING 2015 *Language Evolution*
LING 2016 *Language in Mind*
LING 2017 *Minority and Endangered Languages*

Please consult Departmental Booklet for semester and course descriptions

FINAL YEAR (LING 3000)

All Courses and Options are deemed equivalent to: 2 units.

Core Courses

LING 3010 *Phonology III*

LING 3011 *Syntax III*

LING 3012 *Morphology*

LING 3013 *Pragmatics*

Options

LING 3014 *Language, Power and Identity*

(Prerequisite: none)

LING 3015 *Language Impairment*

(Prerequisite: LING 2010, LING 2011)

LING 3016 *First Language Acquisition*

(Prerequisite: LING 2010, LING 2011, LING 3012)

LING 3017 *Second Language Acquisition*

(Prerequisite: LING 2010, LING 2011)

Please consult Departmental Booklet for semester and course descriptions

Logic

NOTE: Logic will not be available as a subject in the session 2003/2004.

Mathematical Studies

FIRST YEAR

(MST 1000)

First Semester:

- MST 1001 *Calculus of a Single Real Variable I*
Limits of functions, continuous functions, differentiation from first principles, differentiation techniques, implicit differentiation, differentiable functions, Newton's method, extreme values of functions, mean value theorem and corollaries, graph sketching, optimisation.
- MST 1002 *Calculus of a Single Real Variable II*
Integration techniques, fundamental theorem of calculus, inverse functions, natural logarithm and exponential functions, numerical integration, applications of integration to area, length and volume, separable and linear differential equations.
- MST 1011 *Combinatorics and Number Theory*
Combinations and permutations, counting arguments, modular arithmetic, Euclidean algorithm, Chinese remainder theorem, Fermat's and Euler's theorems, fundamental theorem of arithmetic.
- MST 1012 *Matrix Theory*
Systems of linear equations and matrices, determinants, vectors in 2-space and 3-space.

SECOND YEAR

(MST 2000)

- MST 2001 *Calculus of Several Variables (3)*
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.
- MST 2015 *Linear Algebra and Computer Mathematics (3)*
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.

- MST 2013 *Algebraic Structures (3)*
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.
- MST 2014 *Introduction to Analysis (3)*
The real numbers – axiom of completeness. Sequences and series – limits, monotone convergence theorem, infinite series, Bolzano-Weierstrass theorem, Cauchy criterion, power series, Taylor’s theorem.

FINAL YEAR (MST 3000)

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

- MST 3013 *Analysis (3)*
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.
- MST 3014 *Algebra and applications (3)*
Applications of groups and fields including an introduction to Galois theory. Coding and Cryptography.
- MST 3021 *Differential Geometry (2)*
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 \mathbb{R}^3 – Gaussian and normal curvature, geodesics.
- MST 3022 *History of Mathematics (2)*
Topics chosen from Greek mathematics, geometry, algebra and analysis, cartesian geometry, non-euclidian geometry, the role of mathematics in the modern world.
- MST 3025 *Differential Equations via Computer Algebra (2)*
A computer-lab-based course investigating the solutions of differential equations using symbolic computation.
- MST 3024 *Financial Mathematics (2)*
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.

Mathematics

FIRST YEAR

(MATH 1000)

Honours Course

MATH 1001 *Algebra*

Induction, solutions of systems of linear equations, matrix algebra, determinants, vectors in three-dimensional space, lines and planes in three-dimensional space, eigenvalues and eigenvectors.

MATH 1002 *Calculus*

Limits of functions and continuity. Differentiation, extreme values, mean value theorem, applications. Riemann integration. Differential equations.

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 departmental approval.

Mathematical Physics Studies

FIRST YEAR

(MPST 1000)

1. Mathematical Modelling and Numerical Methods

First order differential equations: Examples of modelling leading to differential equations; homogeneous equations with constant coefficients; separable equations; integrating factors. Inhomogeneous equations. Linear second order differential equations: Independent solutions and Wronskians; reduction of order; variation of parameters; initial and boundary value problems. Systems of equations; phase plane, classification of critical points. Approximate solutions of nonlinear equations. Chaotic dynamics.

Numerical methods: Solutions of ordinary differential equations, quadrature formulae, root finding.

2. Introduction to Mechanics

Motion in a line, displacement-time graphs, velocity-time graphs and acceleration. Motion with constant acceleration, free fall under gravity. Introduction to vectors, scalar product, relative velocity. Force, momentum and Newton's laws of motion. Statics and friction.

Kinetic and potential energy, work and power. Elastic strings and springs, Hooke's law and elastic potential energy. Projectiles. Impulse, collisions and the law of restitution. Circular motion. Simple harmonic motion, motion in a plane and under variable forces. Stability and small oscillations.

Coplanar forces in equilibrium. Centre of gravity and moments of inertia. Dynamics of a rigid body in two dimensions. The compound pendulum. Polar co-ordinates. Central forces, angular momentum and orbits. Satellite motion.

SECOND YEAR

(Mode I - MPST 2100)

(Mode II - MPST 2200)

MPST 2110 Methods A (3)

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.

MPST 2120 Mechanics and Special Relativity (3)

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.

MPST 2130 Analytical and Quantum Mechanics (3)

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.

MPST 2140 *Ordinary Differential Equations (3)*

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.

FINAL YEAR (Mode I - MPST 3100)

(Mode II - MPST 3200)

MPST 3111 *Methods B (2.4)*

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).

MPST 3120 *Methods C (2.4)*

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.

MPST 3130 *Thermal and Statistical Physics (2.4)*

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.

MPST 3141 *Potential Theory (2.4)*

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.

MPST 3151 *Electromagnetic Theory (2.4)*

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.

MPST 3160 *Quantum Mechanics (2.4)*

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.

MPST 3171 *Fluid Mechanics (2.4)*

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.

MPST 3180 *Dynamical Systems and Chaos (2.4)*

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.

MPST 3190 *Special Topics (4.8)*

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.

FIRST YEAR (MUS 1000)
Courses are available.

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

FIRST YEAR (PHIL 1000)

The object of this course is to introduce students to the study of philosophy through the critical study of ideas and forms of philosophical argumentation. The course will examine the origins of philosophy in ancient Greece, and will provide a broad historical introduction to the development of western philosophy to the present. Students will be encouraged to gain a first-hand knowledge of classical philosophical texts, including Plato's *Republic*, Descartes' *Meditations*, and selected works by Nietzsche, Kierkegaard and Sartre. Basic moral issues and concepts in aesthetics will also be discussed.

Participation in tutorials and essay writing is an important feature of the course, and will count in examinations. No previous knowledge of philosophy is required. More information on the Philosophy Department and the courses offered is available on the Departmental website at <http://www.ucd.ie/~philosop/>

The first year course will include some or all of the following:

- PHIL 1001 *Introduction to Modern Philosophy*
- PHIL 1002 *Introduction to Greek Philosophy*
- PHIL 1003 *Introduction to Contemporary European Philosophy*
- PHIL 1004 *Introduction to Social Philosophy*
- PHIL 1005 *Introduction to Ethics*
- PHIL 1006 *Introduction to Philosophical Problems*
- PHIL 1007 *Introduction to Eastern Philosophy*
- PHIL 1008 *Introduction to Philosophical Anthropology*

PHIL 1009	<i>Essays and Tutorial assessment</i>
PHIL 1010	<i>Introduction to Philosophy of Religion</i>
PHIL 1011	<i>Introduction to Medieval Philosophy</i>
PHIL 1012	<i>Introduction to Logic</i>
PHIL 1013	<i>Introduction to Epistemology</i>
PHIL 1014	<i>Introduction to Aesthetics</i>

Note for First Year Students:

- The provision of a particular course is subject to the availability of staff. Courses additional to those listed may be provided in a particular year. Notice of the exact course titles will be announced at the beginning of the session.

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 or all of the following courses will be offered:

PHIL 2001	<i>The Rationalists (1)</i>
PHIL 2002	<i>Aesthetics (1)</i>
PHIL 2003	<i>The Enlightenment (1)</i>
PHIL 2004	<i>Philosophical Anthropology (1)</i>
PHIL 2005	<i>Philosophy of Imagination (1)</i>
PHIL 2007	<i>Medieval Philosophy (1)</i>
PHIL 2008	<i>Philosophy of Being I (1)</i>
PHIL 2010	<i>Propositional Logic (1)</i>
PHIL 2012	<i>Introduction to Semiotics (1)</i>
PHIL 2013	<i>Modern Moral Philosophy (1)</i>
PHIL 2014	<i>Philosophy of Religion (1)</i>
PHIL 2015	<i>Classical Theories of Knowledge (1)</i>
PHIL 2020	<i>The Philosophy of Whitehead (1)</i>
PHIL 2021	<i>Dilemmas (1)</i>
PHIL 2022	<i>Contemporary Political Philosophy (1)</i>
PHIL 2023	<i>The Philosophy of Time (1)</i>
PHIL 2024	<i>Greek Tragedy (1)</i>
PHIL 2025	<i>Seminars (2)</i>

PHIL 2026	<i>Essays and tutorial assessment (2)</i>
PHIL 2027	<i>Contemporary Moral Philosophy (1)</i>
PHIL 2028	<i>Pragmatism and Epistemology (1)</i>
PHIL 2029	<i>Ethics (1)</i>
PHIL 2030	<i>The Moral Foundations of Law (1)</i>
PHIL 2031	<i>Kant's Critical Philosophy (1)</i>
PHIL 2032	<i>Empiricism and Naturalism (1)</i>
PHIL 2033	<i>Problems of Philosophy II (1)</i>
PHIL 2034	<i>Existentialism and Marxism (1)</i>
PHIL 2035	<i>Perception and Imagination in Phenomenological Philosophy (1)</i>
PHIL 2036	<i>Contemporary Ethical Theory (1)</i>
PHIL 2037	<i>Morality and Civilization (1)</i>
PHIL 2038	<i>The Politics of Pleasure: Power and Discourse (1)</i>
PHIL 2039	<i>Contemporary French Philosophy (1)</i>
PHIL 2040	<i>Kant's Critique of Pure Reason (1)</i>
PHIL 2041	<i>Issues in the Philosophy of Mind (1)</i>
PHIL 2042	<i>Philosophy and Nature (1)</i>
PHIL 2043	<i>Contemporary Approaches to Philosophy (1)</i>
PHIL 2044	<i>Marxism and Existentialism (1)</i>
PHIL 2045	<i>Philosophy of Language (1)</i>
PHIL 2046	<i>Two Empiricists and a Rationalist (1)</i>
PHIL 2047	<i>Philosophy of Mind (1)</i>
PHIL 2048	<i>Selected Topics in Philosophical Anthropology (1)</i>
PHIL 2049	<i>Philosophy as Love of Wisdom (1)</i>
PHIL 2050	<i>Philosophy of Action (1)</i>
PHIL 2051	<i>Kant II: Morality and Aesthetics (1)</i>

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 Department 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 Department provided that the course is approved by the Head of the Department of Philosophy, and permission to attend the course is granted by the Head of the other Department involved. Adequate notification must be given to the Departments 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 Department, and supervised by a member of staff.

Some or all 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 and Science (1)*
- PHIL 3009 *Structuralism and Hermeneutics (1)*
- 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	<i>Nineteenth-Century German Philosophy (1)</i>
PHIL 3030	<i>Epistemology (1)</i>
PHIL 3031	<i>Introduction to Phenomenology (1)</i>
PHIL 3032	<i>Post-Kantian German Philosophy (1)</i>
PHIL 3033	<i>Predicate Logic (1)</i>
PHIL 3034	<i>Time and Intuition in Heidegger and Levinas (1)</i>
PHIL 3035	<i>Post-Kantian German Philosophy (1)</i>
PHIL 3036	<i>Hegel's Phenomenology of Spirit (1)</i>
PHIL 3037	<i>Realism and Anti-Realism (1)</i>
PHIL 3038	<i>Philosophy of Narrative and History (1)</i>
PHIL 3039	<i>C.I. Lewis and Scheme Content Dualism (1)</i>
PHIL 3040	<i>Twentieth-Century Aesthetics (1)</i>
PHIL 3041	<i>Contemporary Approaches to Philosophy II: Language, Meaning and Mind (1)</i>
PHIL 3042	<i>Truth (1)</i>
PHIL 3043	<i>Contemporary Analytical Metaphysics (1)</i>
PHIL 3044	<i>Phenomenology and Deconstruction (1)</i>
PHIL 3045	<i>Theories of Knowledge (1)</i>
PHIL 3046	<i>Contemporary Continental Philosophy (1)</i>

Notes for Final Year Students

- Students for the BA Mode II must complete 12 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 24 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 Department 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 Department, provided the course is approved by the Heads of Departments concerned and the student is accepted by the Head of Department offering the course. No more than 3 units may be taken outside the Department of Philosophy. Adequate notification must be given to the Departments concerned in order to arrange assessment of the student's work in the course.

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? Is democracy a good form of government? How much power should governments have? 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 Politics Department and the courses it offers is available on the UCD web-server at www.ucd.ie/~politics/.

FIRST YEAR

(POL 1000)

The object of the first year programme is to introduce students to the main features of politics, and especially of democratic government, in their practical and theoretical aspects. Students are required to take the following courses:

POL 1001	<i>Introduction to the Irish Political System</i>	(24 lectures)
POL 1002	<i>Political Theory: Models of Democracy</i>	(24 lectures)
POL 1004	<i>Government and Politics of the USA</i>	(12 lectures)
POL 1005	<i>Introduction to Comparative Government</i>	(12 lectures)
POL 1006	<i>Introduction to the European Union</i>	(12 lectures)
POL 1007	<i>Tutorials</i>	
POL 1008	<i>Introduction to World Politics</i>	(12 lectures)

In practice, this means that students attend four lectures and one tutorial per week for two semesters. Tutorials meet in groups of about ten students. Assessment is mainly by written examination papers at the end of the second semester. Certain percentages of marks are allocated to tutorial attendance, class participation and essay-writing.

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	<i>Civic Republican and Contractarian Political Thought</i>	(2 units) (semester 1)
POL 2002	<i>Comparative Politics</i>	(2 units) (semester 1)
POL 2003	<i>Research Methods</i>	(2 units) (semesters 1 and 2)
POL 2019	<i>Instruments and Issues in World Politics</i>	(1 unit) (semester 2)

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 2001/2002:

POL 2005	<i>Politics of Germany</i>	(1 unit) (semester 2)
POL 2011	<i>Divided Societies, Disputed States</i>	(1 unit) (semester 2)
POL 2014	<i>Issues in democratic theory</i>	(1 unit) (semester 2)
POL 2016	<i>Why Yugoslavia died: nationalism in a multi-ethnic state</i>	(1 unit) (semester 2)
POL 2018	<i>Power and Resistance</i>	(1 unit) (semester 2)
POL 2017	<i>Politics of Japan</i>	(1 unit) (semester 2)
POL 2020	<i>Political Identity and Political Behaviour</i>	(1 unit) (semester 2)

In addition, students attend compulsory tutorials (POL 1010). 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 3 units. The following courses were on offer in 2002/2003 and are subject to change

POL 3001	<i>Dynamics of European Integration</i>	(3 units) (semester 1)
POL 3005	<i>Feminism and Political Theory</i>	(3 units) (semester 2)
POL 3006	<i>Irish Electoral Behaviour</i>	(3 units) (semester 2)
POL 3007	<i>Legislatures</i>	(3 units) (semester 1)
POL 3010	<i>Political Communication</i>	(3 units) (semester 2)
POL 3011	<i>Politics and Nationalism</i>	(3 units) (semester 1)
POL 3013	<i>Northern Ireland</i>	(3 units) (semester 1)
POL 3015	<i>Politics of Multi Ethnic States</i>	(3 units) (semester 1)
POL 3018	<i>Equality</i>	(3 units) (semester 1)

POL 3021	<i>Legitimacy, power, and consent</i>	(3 units) (semester 2)
POL 3022	<i>Contemporary Irish Politics</i>	(3 units) (semester 2)
POL 3024	<i>Liberalism and its critics</i>	(3 units) (semester 2)
POL 3025	<i>US Foreign Policy</i>	(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 First Arts 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 First Arts examination).

(N.B. From September 2005, entry to Second Year Mode I Psychology will only be available to students who enter First Arts 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.

FIRST YEAR

(PSY 1000)

All first year Psychology students will take the following courses:

PSY 1001	<i>Biological Psychology (1)</i>
PSY 1002	<i>Perception (1)</i>
PSY 1003	<i>Cognitive Psychology (1)</i>
PSY 1004	<i>Socialisation and Personality Development (1)</i>
PSY 1005	<i>Developmental Psychology (1)</i>
PSY 1006	<i>Statistics (1)</i>
PSY 1007	<i>History of Psychology (1)</i>
PSY 1008	<i>Psychology and Society (1)</i>

Students are also required to attend tutorials and submit essays.

Notes for First Year Students who entered through DN012:

- Students wishing to enter Mode I courses in their second year must complete the appropriate form **before 15 February 2004**. These forms are available from the Department of Psychology. Students will receive a receipt on submission of the completed form which they must keep as evidence of eligibility for consideration when quota places are allocated on the basis of first year examination results.
- Repeat first year Psychology students are required to reach at least 65% in Psychology to be eligible for one of the places in Mode I Psychology.

Mode I

(PSY 2100)

Mode I students (i.e. single honours Psychology) will take the following courses in their second and final years:

SECOND YEAR

- PSY 2001 *Physiological Psychology (1)*
- PSY 2002 *Psychopharmacology (1)*
- PSY 2003 *Perception (1)*
- PSY 2004 *Introduction to Behaviour Analysis (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 Psychological Research Methods (3)*
- PSY 2015 *Laboratory Practicals in Psychology (8)*
- PSY 2016 *Foreign Language (2) – optional course*

Students are also required to attend tutorials and departmental 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)**
- 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)*

* Course outline will be provided in Class

Optional Courses **

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

Total number of units = **24 units** (22 coreunits and 2 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 departmental 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.

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.

** Not all options may be offered in any given year.

* Course outline will be provided in Class

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

FIRST YEAR

(SOC 1000)

First year students take all of the following lecture courses and, in addition, a fortnightly small group seminar:

- SOC 1001 *Introduction to Sociology* (2 units)
An introduction to basic concepts of sociology, and a discussion of how from its earliest origins, human society reached its present condition – from foraging, through agrarian to industrial and post-industrial societies, with special emphasis on war, violence, power and changing morals and manners.
- SOC 1002 *The Emergence of Sociological Perspectives* (2 units)
The origins of sociological perspectives which are central to understanding contemporary society. Particular attention will be paid to the classical sociological theories of Karl Marx, Emile Durkheim and Max Weber.
- SOC 1003 *Studies in Applied Sociology* (2 units)
This course introduces students to the way sociologists carry out research into specific areas of social life. Different areas are examined from year to year. The four areas examined currently are: how people behave in social groups and organisations; the social and cultural differences between men and women; youth subcultures; and the Catholic Church in modern Irish society.
- SOC 1004 *Contemporary Irish Society* (1 unit)
The changing social structure of Ireland, with particular emphasis on developments over recent decades. Demographic change: marriage, fertility and migration patterns. The class structure of Irish society and the impact of industrialisation on social structure.
- SOC 1005 *Sociology of Development I* (1 unit)
Review of concepts and theories used in understanding rural social change in various parts of the world, including Ireland. The structure of rural society; the conditions that transform rural social and economic life; processes and rates of change in the culture and social organisation of rural areas; and the behaviour of rural people determined by the social characteristics of the groups to which they belong.

SECOND YEAR

(SOC 2000)

Students must take a total of twelve units.

Core Courses (These courses are taken by all students)

- SOC 2001 *Sociological Theory I* (1 unit)
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.

- SOC 2002 *Sociological Theory II* (1 unit)
This 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.
- SOC 2004 *Social Stratification* (1 unit)
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 actually existing social inequality.
- SOC 2005 *Sociology of Development II* (1 unit)
This course examines the conditions and prospects of less developed countries, the 'South' within the context of differences in natural resources, the impact of colonialism and the international economic order. The internal dynamics of less developed countries are analysed with reference to classes, ethnicity, interest groups and political factors and the implications of population expansion. Particular attention is paid to the position of women. The 'North' (or advanced industrial capitalist countries) is identified as part of the problem – can it be part of the solution? This question is examined in relation to the operation of transnational corporations and the role of aid.
- SOC 2006 *Sociology of Communications I* (1 unit)
Major theoretical perspectives in the sociology of communications: Marxism and pluralism, critical theory and dependency theory, feminist and cultural studies views. Review of research on media audiences. Historical and sociological examination of broadcasting in Ireland.
- SOC 2007 *Sociology of Gender* (1 unit)
This 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, health, crime and violence, and the study of masculinity.
- SOC 2008 *Research Methods and Data Analysis* (4 units)
The objective of this course is to give students a good grounding in the methodologies utilised by sociologists in the researching of social issues, as well as an understanding of the theoretical approaches underlying these methodologies. A twice-weekly lecture course is combined with practical hands-on experience in the carrying out of a research project by each student. In the lecture course, the three main approaches to social research are studied, namely documentary research, survey research and the use of qualitative methods. An introduction is given to evaluation research. In addition to the lecture course, each student is required to carry out a research project.

SOC 2010 *Sociology of Northern Ireland* (1 unit)
This course examines various aspects of Northern Irish society, both in terms of historical debates and contemporary developments. The course considers some of the competing/overlapping explanations for the conflict and for its (potential) resolution, focusing in particular on the social dynamics involved in these processes. Our concern throughout the course will be to develop a critical understanding of such concepts as history, community and culture, and how these intersect with other debates about the nature of Northern Irish Society.

SOC 2009 *Seminar Essay*

- Other optional courses may be offered in Second Year. See Third Year option list.

FINAL YEAR (SOC 3000)

Students must take a total of twelve units.

Core Courses (These courses are taken by all students)

SOC 3030 *Sociological Theory III* (1 unit)

SOC 3001 *Sociological Theory IV* (1 unit)
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 that of modernity, are raised.

SOC 3002 *Theory Seminar* (1 unit)

SOC 3003 *Special Interest Seminar – small group course* (1 unit)

Optional Courses

Students take seven optional courses, at least four in the first semester.

SOC 3004 *Sociology of Education* (1 unit)
Key perspectives in the sociological analysis of education. The role of education in the process of social reproduction, and conversely the impact of social class and family background on educational performance. Special attention is given to quantitative and qualitative empirical research, with particular reference to Ireland.

- SOC 3005 *Sociology of the Family* (1 unit)
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.
- SOC 3006 *Sociology of Health and Illness* (1 unit)
This course is concerned with the relationship between society and matters of health and illness. It has three major components: (i) the distribution of health and illness in society; (ii) the roles and settings of medical practice; and (iii) public health policy. The following are the principal topics discussed: how people define health and illness; the social causes of disease; the distribution of illness among different social groups; stigmatising illness; the sick role; the professional-patient relationship; hospital organisation; the social impact of advances in medical technology; public health policy.
- SOC 3007 *Research Methods: Data Analysis* (1 unit)
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.
- SOC 3031 *Research Methods: Data Analysis II* (1 unit)
- SOC 3008 *Sociology of Religion* (1 unit)
Classical sociological understandings of religion and how they relate to the development of contemporary religion and culture, with specific reference to whether there is a process of secularisation in Western societies and Irish society in particular.
- SOC 3009 *Sociology of Mental Health* (1 unit)
The sociological study of madness and mental health. Historical and theoretical aspects of insanity. Contemporary models of madness and sociological interpretations. Freud and psychoanalysis; the role of the psychiatric patient; gender and madness.

- SOC 3010 *Sociology of Childhood* (1 unit)
The social construction of childhood; the implications of declining birth rates and new family forms, the trends towards institutionalisation and segregation of children; the professionalisation of child care and the de-skilling of parenting; children's activities, time-budget studies; the economics of childhood and issues of autonomy, protection, exclusion and inequality.
- SOC 3011 *European Ethnic Relations 1* (1 unit)
Ethnic conflict in Eastern Europe and sociological patterns of ethnic and majority/minority relations generally. Ethnic relations in the former Yugoslavia and the Balkans, and in the Baltic and East Slavic areas of the former USSR are studied to approach a range of problems including the nature of ethnicity and the cultural meaning of nation. Comparison with Western European ethnic relations.
- SOC 3012 *European Ethnic Relations 2* (1 unit)
- SOC 3013 *Sociology of Sex* (1 unit)
Sex in relation to gender, eroticism, religion and morality. Sexual repression and emancipation. Changing attitudes and practices, particularly in Ireland.
- SOC 3014 *Public Discourse and the Media* (1 unit)
This course analyses the role of the media in mature democratic societies, particularly in relation to the news, information and debate and discussion in the public sphere. The course looks at the way news stories are created, the role of journalists and sources, whether objectivity is possible, the influence of the State, censorship, restricted ownership, access, coverage of minority issues, and how the media set agendas and define morality.
- SOC 3015 *Producing Media Messages* (1 unit)
This course examines the contribution of sociology to public debate and discussion through the media. The course centres on the practice of writing and producing creative sociological messages for the media, including letters to newspapers, press releases, book reviews and proposals for radio documentaries.
- SOC 3016 *Reading Media Messages* (1 unit)
This course examines different forms of media messages and the ways they can be read and understood, that is semiological, content, materialist and feminist analyses. A variety of sources are used including newspapers, magazines, photographs, television programmes (particularly soap operas), advertisements and films.
- SOC 3017 *Sociology of Technology* (1 unit)
This course examines the relationship between technology and society. This involves a discussion of a variety of issues: is technology being used to de-skill people? Does technology embody particular values? What effect will the Internet and genetic engineering have on society? The course is built around the competing perspectives of technological determinism and the social shaping of technology.

- SOC 3018 *Social Organisation* (1 unit)
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.
- SOC 3019 *Sociology of Emotions* (1 unit)
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.
- SOC 3020 *Sociology of Racism* (1 unit)
This course aims to enable students to develop a broad-based understanding of theories and issues surrounding the concepts of ‘race’, identity and nation. The course begins by examining the main theoretical paradigms in the study of ‘race’ and racism: pseudo-scientific, psychological, sociological, Marxist and Postmodernist. Following the development of these analytical tools, it then goes on to analyse issues concerning the construction of social identity in terms of essentialism, difference and opposition. Finally, issues concerning identity formation in terms of nation and nationalism in a global cultural context are examined by analysing *inter alia* the racialisation of British identity, whiteness, Muslim identification, and various forms of social fundamentalism.
- SOC 3021 *Visual Sociology* (1 unit)
Visual Sociology uses and produces visual material sociologically. It includes both theoretical approaches to the use of visual material as well as empirical approaches to the production of visual material. To a large degree visual sociologists attempt to be inclusive and are therefore unwilling to restrict visual sociology with a narrow definition. Discursively, visual sociology has developed continuously during its ‘two-decade history’. Empirically, visual sociology is a form of visual ethnography. Images are defined by the context in which they are employed; for visual sociology this context should be sociological.

- SOC 3022 *Economic Sociology* (1 unit)
This course is concerned with the following issues: sociological context of economic life; Irish industrial policy in the context of the international division of labour; dynamics of work organisations and labour markets. The changing GNP and GDP of Ireland and the classification of the changing Irish occupational structure from 1961 to date.
- SOC 3024 *Sociology of Sport* (1 unit)
This course will start with a consideration of some basic definitional issues and proceed to an examination of the functions of sport and leisure. Attention will next be paid to the development of modern sport as a ‘civilising process’ (Elias) and, in that context, the sport of Ancient Greece and Rome and medieval Europe will be discussed for comparative purposes. The course will conclude with an examination of the following issues: the commercialisation of sport, sport and the media; sport and race; sport and gender; sport and violence, especially soccer hooliganism.
- SOC 3025 *Representation and Identity* (1 unit)
- SOC 3026 *Fashion Appearance and Gender* (1 unit)
Fashion is a discourse of historical developments, social trends, human relations and self definitions. As a material symbolic system it encodes cultural values (e.g. beauty, morality, authenticity), cultural fantasies, power positionings (e.g. gender, class, sexuality, ethnicity) and constitutes a site of struggle between dominant ideologies and subversive challenges. The course examines certain aspects of this uniquely Western capitalist development and its recent transformation from a class phenomenon to a consumer phenomenon.
- SOC 3027 *Sociology of the Environment* (1 unit)
This course 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.
- SOC 3028 *Issues in Social Psychology* (1 unit)
Social psychology occupies a very special position between individual psychology focusing on a micro level of analysis, and sociology which is concerned with a macro level. Somewhere in the space between them social psychology seeks to understand human behaviour neither in terms of personality or individual mechanisms, nor in terms of societal processes. Rather, it seeks explanations at the level of small group processes, where both person elements and social elements function as background variables. For this end it employs historical research methods that simulate certain aspects of social life while partialling out others, as well as discursive and ethnographic methods.

- SOC 3032 *Crime and Social Control* (1 unit)
This course considers a broad range of theoretical and policy-oriented debates concerning issues of crime and social control, focusing on three main issues in particular. First, it examines the major theoretical explanations of criminal behaviour and considers their policy implications. Second, it addresses how various forms of inequality intersect with issues of crime and social control. Finally, it considers the relationship between crime, social control and broad processes of social change.
- SOC 3033 *Policing and Social Order* (1 unit)
The focus of this course is, firstly, on the major historical and sociological debates surrounding ‘policing’ and ‘the police’, and secondly, on contemporary developments in, and possible futures of, policing in Ireland and elsewhere. Throughout the course, we will consider the relationship between policing and social order, exploring in a variety of substantive ways, how social and economic divisions impact upon police practice, and how policing is enmeshed in the reproduction of social inequalities.
- SOC 3034 *Urban Sociology* (1 unit)
Modern life is city life. Urban landscapes, cultures and economies provide the quintessential expression of the dynamics of modernity. This course will explore a variety of overlapping concerns including: local economic strategies and the changing political-economy of cities; social stratification and patterns of collective consumption; landscapes of race and class (e.g. gentrification, the underclass ‘ghetto’, ethnic cultural quarters such as ‘China Town’), contested representation of cities, for instance by local boosters (‘place marketing’) or in popular culture (e.g. crime novels, TV, the media); globalisation, global cities and supra-national urban hierarchies; the post-modern city.
- SOC 3039 *Environmental Sociology II* (1 unit)
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’.
- SOC 3036 *Political Sociology* (1 unit)
‘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.

- SOC 3037 *Health, Illness and the Media* (1 unit)
This course will examine representations of health and illness in the mass media. A particular area of interest is the role of the media in what Radley et al (1997:5) term ‘the making of health’. One feature of late-modern societies is that all of us are consumers of multiple messages in relation to what we should and should not do to our bodies in order to be healthy. Even a brief overview of the Irish media illustrates the pervasiveness of health related topics. Following Giddens (1992), it might be suggested that reading health promotional material, reading newspaper or magazine articles dealing with health issues and listening to or watching programmes dealing with health related topics all provide information that can enable individual reflexive projects. The media have a key role to play in moralising health. The media also play a crucial role in the commodification of health. The aim of this course will be to critically examine these themes. Topics will include: an introduction to health promotion and the media; risk; the internet and cyber-coping.
- SOC 3038 *Work and Industry* (1 unit)
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?
- SOC 3029 *Sociology of Food and Eating* (1 unit)
Theoretical approaches: functionalist, structuralist, ecological-materialist, developmental. Social influences on appetite. Eating disorders: obesity, anorexia nervosa, bulimia. Food and gender. The history of culinary cultures. Professional and domestic cookery. Food technology and its impact. Gastronomy and gastronomic publics.
- SOC 3040 *American Society* (1 unit)
The first half of this course looks at how the main modes and traditions of American society and politics came into being. The second half investigates how these modes and traditions have developed and changed over 200 years and how they are currently being used and understood.

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 departments, notably the Department of Philosophy; the express permission of the Head of the Department of Sociology and of the Head of the other relevant department 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 first year day course; selection of beginners will be by interview held at the beginning of term. 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.

FIRST YEAR (SPAN 1000)

The purpose of the First Year course in Spanish is to allow students to develop and consolidate their competence in the four skills of speaking, listening, reading and writing and to achieve a post-Leaving Certificate/A-Level standard in the language. Students will also be introduced to aspects of Spanish history, literature and culture.

Language

SPAN 1010 *Spanish Language I*
A year-long course developing the core skills of reading, writing, listening and speaking.

History, Linguistics and Literature

SPAN 1061 *Introduction to Spain and her Language*
A series of courses addressing elements of (a) historical and political approaches to Spain, and (b) aspects of Spanish phonology and semantics.

SPAN 1062 *Introduction to Literature in Spanish*
A series of courses introducing students to the study of literary texts. Beginners and non-beginners will be taught separately.

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 Spanish 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

SPAN 2010 *Spanish Language II* (4 units)
A year-long course comprising grammar, translation, reading, comprehension, oral and aural Spanish.

SPAN 2033 *Expresión Escrita I* (1 unit)
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

- SPAN 2032 *Spanish Linguistics II: The Phonetics of Spanish* (1 unit)
A single-semester course offering a linguistic introduction to Spanish, concentrating on the Phonetics and Phonology of the modern language.
- SPAN 2075 *Medieval Literature I* (1 unit)
Poema de mio Çid, ed. Ian Michael (Castalia).
- SPAN 2073 *Golden Age Drama I* (1 unit)
Lope de Vega, *Fuenteovejuna* (Clásicos Castalia or Castalia Didáctica); Calderón de la Barca, *El alcalde de Zalamea* (Clásicos Castalia or Cátedra).
- SPAN 2074 *Cervantes I* (1 unit)
Miguel de Cervantes, 'El licenciado vidriera', 'La fuerza de la sangre', 'El casamiento engañoso' and 'El coloquio de los perros' from the *Novelas ejemplares* (Cátedra, vol. II).
- SPAN 2015 *Modern Verse I* (1 unit)
J. Guillén, *Cántico* (1928); L. Cernuda, *Un río, un amor*.
- SPAN 2013 *Modern Novel I* (1 unit)
Ramón Sender, *Réquiem por un campesino español* (1953), Miguel Delibes, *El camino* (1950).
- SPAN 2041 *Tutorials* (1 unit)
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 First Arts examination in Spanish. These students are exempt from certain literature courses as determined from year to year by the department.

FINAL YEAR (SPAN 3000)

Language

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

Options

Language and Linguistics

- SPAN 3080 *La Expresión Escrita II* (2 units)
Un curso en el que se trabajará esta destreza desde un enfoque comunicativo.
- SPAN 3083 *Spanish Linguistics III: Historical Phonology* (1 units)
An investigation of the evolution of the Spanish sound system out of Vulgar Latin.

Medieval and Golden Age Spain

- SPAN 3084 *Medieval Literature II* (2 units)
Love and Death in the Late Fifteenth Century: F. de Rojas, *La Celestina* (Cátedra); Jorge Manrique, *Coplas a la muerte de su padre* (Castalia Didáctica); further texts to be supplied.
- SPAN 3071 Golden-Age Drama II (2 units)
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).
- SPAN 3085 Golden-Age History (1 unit)
Elliott, *Imperial Spain 1496-1716* (Penguin).

Nineteenth-Century Literature

- SPAN 3033 Romantic Drama (1 unit)
Duque de Rivas, *Don Álvaro* (Cátedra); J.E. Hartzenbusch, *Los amantes de Teruel* (Castalia); José Zorrilla, *Don Juan Tenorio* (Castalia).
- SPAN 3041 *Nineteenth-Century Realism* (1 unit)
Emilia Pardo Bazán, *Los Pazos de Ulloa* (Alianza); Juan Valera, *Pepita Jiménez* (Castalia).

Twentieth-Century Spanish Literature

- SPAN 3067 *Modern Verse II: Poetry of Antonio Machado* (2 units)
Machado, *Poesías completas* (Austral).
- SPAN 3069 *Modern Verse III: Poet in New York: Federico García Lorca* (1 unit)
García Lorca, *Poeta en Nueva York* (Austral)
- SPAN 3022 *Modern Novel II: Novel under Franco* (2 units)
Cela, *La familia de Pascual Duarte* (Destino); Matute, *Primera memoria* (Destino); Delibes, *Cinco horas con Mario* (Destino); Fernández Santos, *Los bravos* (Destino).
- SPAN 3024 *Modern Novel IV: Carmen Martín Gaité* (2 units)
Entre visillos, Retahílas, El cuarto de atrás, Nubosidad variable.

Twentieth-Century Latin-American Literature

- SPAN 3089 *Latin American Indigenous Novel* (2 units)
José María Arguedas, *Todas las sangres*, Rosario Castellanos, *Balún Canán, Oficio de tinieblas*, other texts to be announced.
- SPAN 3087 *Mexican Feminist Writing* (1 unit)
Rosario Castellanos, *El eterno femenino, Judith y Salomé: poemas dramáticos*.

SPAN 3063 *Spanish-American Literature* (2 units)
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 Spanish Department.
- 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.
- Course SPAN 3091 is available only to students taking PORT 3002.
- The Spanish Department 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 Honours standard in the *language* components of the First Arts Examination in Spanish.

SECOND YEAR (PORT 2000)

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

FINAL YEAR (PORT 3000)

PORT 3002 *Portuguese II* (2 units)
A continuation of PORT 2002. A year-long course comprising grammar, translation, reading comprehension, oral and aural Portuguese.

SPAN 3091 *Literature in the Portuguese-Speaking World* (1 unit)
An optional literature course for those taking PORT 3002. Authors studied include Clarice Lispector, João Guimarães Rosa, Fernando Pessoa, Carlos Drummond de Andrade, and Pepetela.

Statistics

FIRST YEAR

(STAT 1000)

STAT 1001 *Descriptive Statistics and Statistical Computing*

Types of Variables and Data. Stem-and-Leaf Displays. Frequency Distributions. Histograms. Samples and Populations. Transforming Data. Numerical Summary Measures. Summarising Bivariate Data. Introduction to Statistical Programming and MINITAB.

STAT 1002 *Introduction to Probability and Statistical Inference*

Probability concepts. Random variables and probability distributions. The binomial distribution. The normal distribution. Checking for normality. The distribution of a sample mean. Point and interval estimation using a single sample. Hypotheses and test procedures. Errors in hypothesis testing. Tests for population means and proportions using a single sample. P-values.

STAT 1003 *Statistical Inference and Goodness-of-Fit*

Tests and estimation procedures for a difference between two population means or proportions using two independent samples. Tests and estimation procedures for differences using paired data. Distribution free procedures. One- and two-way frequency tables. Hypothesis testing for proportions and independence. Testing the fit for a population model.

STAT 1004 *Linear Regression and Analysis of Variance*

The simple linear regression model. Inferences based on the estimated regression line. Inferences on the population correlation. Checking model adequacy. Single factor ANOVA. Multiple comparisons. Randomized block experiment. Two-factor ANOVA.

SECOND YEAR (STAT 2000)

STAT 2005 *Statistical Theory I: Probability*

(2 units)

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

STAT 2006 *Statistical Theory II: Statistical Inference*

(2 units)

- (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.

STAT 2007 *Statistical Theory III: Bayesian Statistics and Stochastic Processes*

(2 units)

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

STAT 2008 *Statistical Methods I*

(2 units)

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

STAT 2009 *Statistical Methods II*

(2 units)

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.

STAT 2010 *Data Analysis and Statistical Software* (2 units)
Data screening and cleaning. The SAS software package for data analysis.

FINAL YEAR (STAT 3000)

STAT 3011 *Data Analysis I* (2 units)

STAT 3012 *Applied Statistics I* (2 units)
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.

STAT 3013 *Applied Statistics II* (2 units)
Introduction to Sample Surveys. Contingency Table Analysis. Logistic Regression. Log-linear Models. Statistical Computing.

STAT 3014 *Time Series Analysis* (2 units)
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.

STAT 3015 *Multivariate Analysis* (2 units)
Random vectors. Multivariate Normal Distribution, Correlation and Regression. Hotelling's T^2 Statistic. Discriminant Analysis. Canonical Correlation. Principal Components Analysis. Multivariate Analysis of Variance.

STAT 3016 *Actuarial Statistics I* (2 units)
Decision Theory. Loss Distributions. Risk Models. Run Off Triangles and Experience Rating Systems.

STAT 3017 *Actuarial Statistics II* (2 units)
Ruin Theory. Bayesian Statistics. Credibility Theory. Introduction to Generalised Linear Models.

STAT 3018 *Survey Sampling* (2 units)
Elements of the sampling problem. Simple random sampling. Stratified random sampling. Ratio estimation. Cluster sampling. Systematic sampling.

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

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

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

STAT 3024 *Statistics and Visualization* (2 units)
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.

STAT 3031 *Linear Models with Complex Structure* (2 units)
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.

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

STAT 3033 *Nonparametric Statistics* (2 units)
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.

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

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

STAT 3040 *Data Mining* (2 units)

Notes for Final Year Students:

- Students are required to take twelve units, and the selection of courses is subject to departmental approval.
- All students must undertake a project in Data Analysis on Applied Statistics as prescribed by the Department of Statistics.

Welsh

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

FIRST YEAR **(WEL 1000)**

- WEL 1001 The structure of modern literary Welsh.
- WEL 1002 Elementary composition and translation.
- WEL 1003 Introduction to modern Welsh literature; selections from a representative sample of twentieth century writers.

SECOND YEAR **(WEL 2000)**

First Semester:

- WEL 2001 *Composition, Translation and Spoken Welsh I (1)*
The course is designed to further the student's ability in literary Welsh and to introduce the spoken language.
- WEL 2002 *Introduction to Medieval Welsh Prose I (1)*
The study of an edited prose tale of the late medieval period.
- WEL 2003 *Early Welsh Poetry I (1)*
Selection from various early poetic genres.
- WEL 2004 *Introduction to the Literature of the Sixteenth to the Nineteenth Centuries (1)*
The course includes selections from early modern free verse and prose selections from various translations of the Bible.
- WEL 2005 *Modern Welsh Literature I (1)*
Representative samples from the leading exponents of present-day Welsh literature.
- WEL 2006 *Medieval Breton: Structure and Texts I (1)*
The grammar of medieval Breton and selections from the prose and verse of the period.
- WEL 2007 *Welsh Linguistics I (1)*
An introduction to phonological and grammatical structure.
- WEL 2008 *An Approved Author or Topic I (1)*
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.
- WEL 2009 *The History of Welsh Literature and Literary Criticism I (1)*
This course includes an assessment of the influence of the National Eisteddfod and other institutions on vernacular literature.

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Second Semester:

- WEL 2051 *Composition, Translation and Spoken Welsh II (1)*
Further exercises in the various registers.
- WEL 2052 *Medieval Prose II (1)*
Continuing study of a selected text.
- WEL 2053 *Early Welsh Poetry II (1)*
A continuation of WEL 2003.
- WEL 2054 *Welsh Metrics (1)*
The rules and development of 'cynganedd' in Welsh strict metre poetry.
- WEL 2055 *Selections from Modern Welsh Literature II (1)*
A continuation of WEL 2005.
- WEL 2056 *Medieval Breton II (1)*
Further study of selections from the prose and poetry of the period.
- WEL 2057 *Welsh Linguistics II (1)*
A continuation of WEL 2007.
- WEL 2058 *An Approved Author or Topic II (1)*
A continuation of WEL 2008.
- WEL 2059 *The History of Welsh Literature and Literary Criticism II (1)*
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 Department 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 Department and will depend on subject combination).

FINAL YEAR

(WEL 3000)

First Semester

- WEL 3001 *Composition, Translation, Spoken Welsh I (1)*
The course is designed to further the student's ability to handle the literary and spoken language.
- WEL 3002 *Medieval Prose I (1)*
The prose genres of the medieval period, including selections from original and translation material.

- WEL 3003 *Medieval Poetry I (1)*
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.
- WEL 3004 *Twentieth Century Prose I (1)*
Representative samples from the compositions of modern prose writers and modern playwrights.
- WEL 3005 *Twentieth Century Poetry I (1)*
Selections from the major poets and schools of twentieth century modernism.
- WEL 3006 *Modern Breton: Structure and Texts I (1)*
The grammar of modern (KLT) literary Breton, including a detailed study of a published folk-tale.
- WEL 3007 *Medieval Cornish: Structure and Texts I (1)*
The grammar of medieval Cornish, including the detailed study of the Cornish 'passion' poem.
- WEL 3008 *Old Welsh (1)*
Prose texts of the ninth to eleventh centuries.
- WEL 3009 *An Approved Author or Topic I (1)*
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

- WEL 3051 *Composition, Translation and Spoken Welsh II (2)*
Advanced composition and translation exercises and a study of the various written and spoken registers of Modern Welsh.
- WEL 3052 *Medieval Prose II (1)*
A continuation of WEL 3002.
- WEL 3053 *Medieval Poetry II (1)*
A continuation of WEL 3003.
- WEL 3054 *Twentieth Century Prose II (1)*
A continuation of WEL 3004.
- WEL 3055 *Twentieth Century Poetry II (1)*
A continuation of WEL 3005.
- WEL 3056 *Modern Breton Structure and Texts II (1)*
Further study of the grammar of Modern Breton, including readings from present-day prose compositions.
- WEL 3057 *Medieval Cornish: Structure and Texts II (1)*
A further study of medieval Cornish texts.

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- WEL 3058 *History of the Welsh Language (I)*
Change and development in orthography and grammatical structure during the medieval and modern period.
- WEL 3059 *An Approved Author or Topic II (I)*
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 Department 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 Department and will depend on subject combination).

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