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CITY OF LEEDS AND CARNEGIE COLLEGE

1975-76

REORGANISATION OF TEACHER TRAINING

In response to the White Paper, Education : A Framework for Expansion, the College has completely revised the curriculum of the three-year course and the University of Leeds has agreed to recognise it for the award of the Bachelor of Education (Ordinary) degree. The work of reorganisation was not completed till July 1974, so this emergency handbook has been produced as quickly as possible to provide up-to-date information for students hoping to join the three-year course in September 1975.

All enquiries about admission and application should be addressed to :

The Academic Registrar
City of Leeds and Carnegie College
Beckett Park
Leeds LS6 3QS
Telephone: Leeds 759061

CITY OF LEEDS AND CARNEGIE COLLEGE

PRINCIPAL: L. Connell, M.Sc., Ph.D.

DEPUTY PRINCIPAL: F. C. Willmott, M.A.

CARNEGIE DIRECTOR OF PHYSICAL EDUCATION:
J. C. Evans, M.Ed.

Second Edition

August 1974

as beneficial, especially for students on the three-year course, but residence is now entirely optional. Students accepting places in residence do so on the understanding that they will observe the current hall regulations.

Resident students may be accommodated either in hall or in approved lodgings. If in approved lodgings they are provided by the College with sleeping and study accommodation in houses near the College estate, but in other respects they remain full members of their halls of residence. Like students in halls they take all their meals in the College refectory without payment.

Day students are required to find their own accommodation. Once the address is approved they are independent of College residential administration and are not entitled to the use of hall amenities, including common room and laundry, though they may take meals in the College refectory on payment. Students who have chosen to be day students rather than resident students are not normally allowed to become resident students later. Change of status from resident student to day student is normally allowed only at the end of the College year, but it may be allowed at other times in exceptional circumstances.

There is strong competition for resident places and priority is given to overseas students and students on the three-year course. First year students on the three-year course who have been offered resident places are normally accommodated in halls of residence. At the end of the first year they may apply to continue as resident students; if accepted they are normally accommodated in approved lodgings. At the end of the second year resident students may again apply for permission to continue as resident students; if accepted and accommodation is available they are normally offered places in halls of residence. The normal pattern of residence for three-year course students is therefore that they spend the first year in hall, the second in approved lodgings, and the third year in hall.

Students on one-year courses and students staying for the fourth year of the Bachelor of Education course are normally expected to make their own living arrangements, but they can sometimes be offered resident places in halls or approved lodgings.

LIBRARY

The library is one of the largest in colleges of education in England and Wales, and contains over 70,000 books, as well as periodicals, gramophone records, film strips, tapes and an illustrations collection. Over 12,000 children's books are available, especially for use during teaching practice. The lending library has seating for 100 and the

reference library and study area for 130. The lending library is open until 7.30 p.m. and the reference library until 9 p.m. from Mondays to Fridays; the lending library is also open on Saturday mornings.

AUDIO-VISUAL SERVICE

Communications technology, new media and theories of learning and communication are transforming the way we live and have significant implications for education. At this time of rapid development in educational equipment and techniques, the audio-visual service offers courses on the use of teaching media. Facilities exist for work with film, television, photography, teaching aids of all kinds, and programmed learning. Opportunities are provided for students to familiarise themselves with equipment and to take part in practical and experimental work.

MEDICAL SERVICES

There is a fully equipped medical centre in the charge of a resident nurse. The College medical officer attends daily.

STUDENTS' UNION

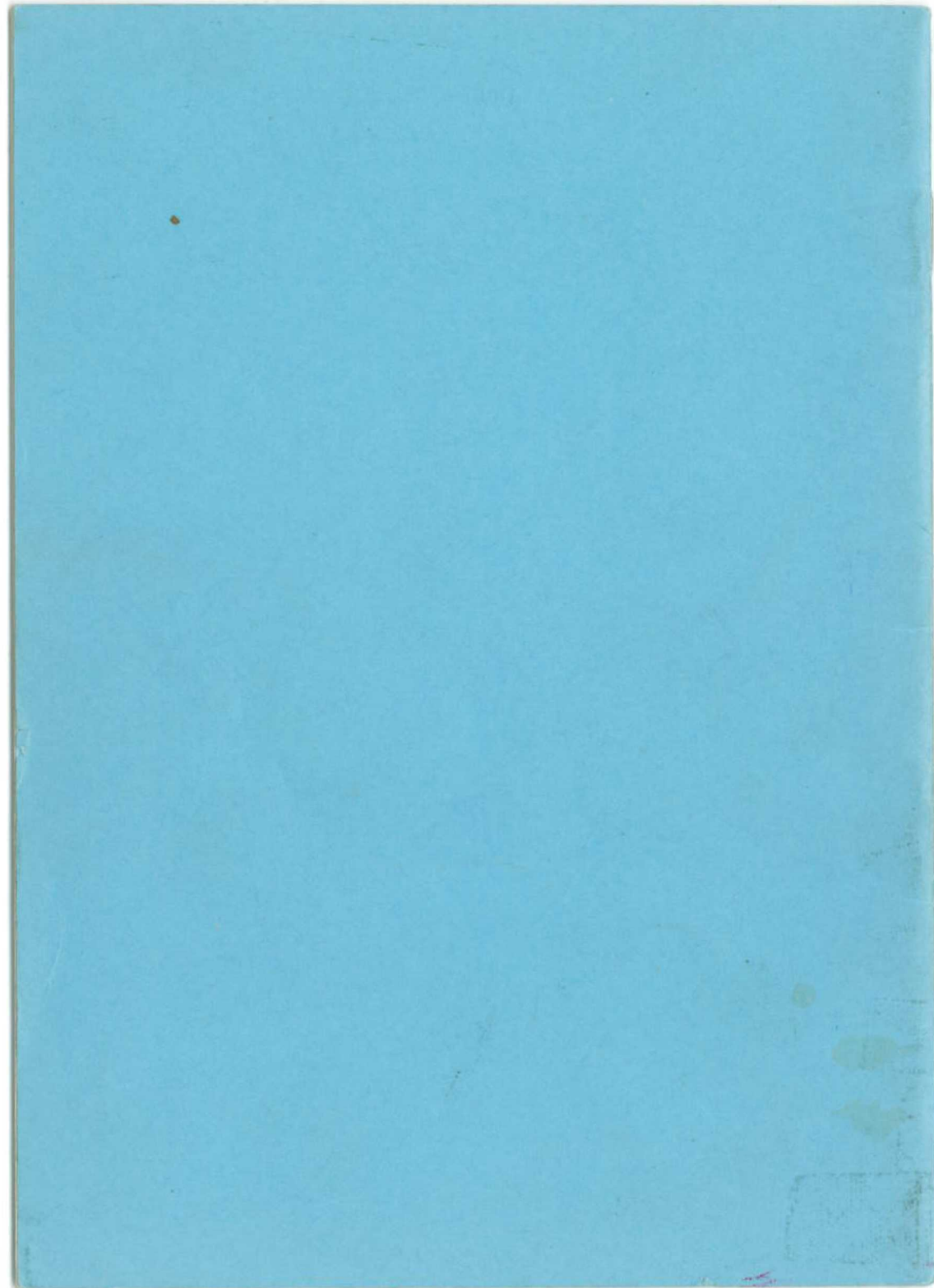
All students of the College are members of the Students' Union. The Union is responsible for co-ordinating and financing a wide variety of activities. There are sports clubs for the traditional games activities, and facilities are also provided for activities ranging from volley-ball to rock-climbing, from dance drama to fives, from light opera to folk music, and from socialism to cinema. The Union produces a fortnightly newspaper, Voice. A membership fee for every student is paid to the Union by the local education authority, but all students pay an additional sum which entitles them to participate in all Union activities.

The Students' Union has representatives on the College Academic Board and the Board of Governors.

BECKETT PARK CENTRE

The Beckett Park Centre provides a coffee lounge and licensed bar. It is administered by a committee of students and staff.

Printed by
Regent (Printers) Ltd.
Aspley, Huddersfield,
HD5 9AA
Tel: 30919



ACADEMIC AND ADMINISTRATIVE STAFF JULY 1974

The Staff of the Carnegie School of Physical Education is shown on page 5.

EDUCATION

A. E. Carter, B.A.
Miss J. Haworth, M.A., Ph.D.
J. T. Bradshaw, M.A.
Miss E. Bryan
J. J. Burbidge
D. Carr, B.A.
E. J. Davies
R. Evans, N.D.D., A.T.D.
G. E. Ginnever, M.Sc.
Miss J. Gledsdale, N.F.F.
J. B. M. Jagger, B.A., M.Litt.
D. M. Jepson, B.A.
W. R. Macmillan, M.A.
B. Metcalfe, M.A.
G. D. Rainbow, M.Sc.
C. K. Ramsay
E. H. Roper, M.A.
E. Roxborough, M.A.
Miss D. H. Smithson, M.A.
E. Walker
G. Walsh, Dip.A.S.E.
R. K. Williams
M. G. Walters, B.A.

ENGLISH

J. D. Haigh, M.A., Ph.D.
K. R. Brewster, B.A.
L. Brown, B.A.
B. Dean, B.A.
J. G. Glyn, B.A.
R. G. Holloway, B.A.
J. T. Linstrum, B.A., A.D.B.
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G. F. Pellant, M.A.
R. Perkin, B.A.
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Miss M. G. Round, M.A.
R. W. Tucker, B.A.

R. G. Walker, B.A., Dip.
Curricular Studies
K. Willis, B.A.

FRENCH

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Mrs. B. E. Coles, B.A.
Miss C. J. Gamble, B.A., Les L.
Mrs. M. Parry, M.A.
A. Smalley, B.A., F.I.L.

RELIGIOUS STUDIES

A. E. Elms, B.A., B.D.
S. L. Evans, B.A., B.Phil.
A. Harvey, B.A.
C. J. Kitchell, M.A.
Mrs. B. Onions, B.A.
Miss E. I. Pinthus, B.A.

HISTORY

R. J. Porter, M.A.
J. D. Charlton, B.A.
E. A. Elton, M.A.
Miss J. E. Exwood, B.A.
Miss J. N. Pogson, B.A.
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R. T. Spence, B.A., Ph.D.

GEOGRAPHY

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P. M. Balchin, B.Sc.
K. A. Crotty, B.A.
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Mrs. L. A. Moss, B.Sc.
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D. J. West, B.Sc.
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R. Leigh, B.Sc.
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C. F. Sellers, B.Sc., Ph.D.
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B.Mus.
Miss R. K. Mead, L.R.A.M.,
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MEDICAL OFFICER
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G. M. Wordsworth, B.Sc., N.D.A.

ART AND CRAFT

F. Corr
J. B. Holmes, Slade Diploma in
Fine Art, A.T.D.
D. L. Richards, N.D.D., A.T.D.
T. M. Van Lemmen, B.A.
T. B. Wanless, N.D.D., Dip.A.E.,
F.R.S.A.
J. H. Wess, A.T.D.
Miss E. M. Wilson, N.D.D.

CRAFT AND TECHNICAL STUDIES

L. H. Laic
A. A. Brown, A.T.D.
D. L. Ellis, A.T.D., F.T.C.
A. H. Guise, Des.R.C.A.
D. A. Jones, Diploma in
Handicraft
A. H. Moore, Diploma in
Handicraft
R. A. A. Rignall, M.Inst.B.E.

Miss D. H. Smithson, M.A.
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R. Bateman, F.L.A.
Miss J. Newiss, B.A., A.L.A.
E. V. Beer
R. W. Tucker, B.A.

R. Hardy

H. Staton
P. Larnar

A. Morley
Mrs. M. I. Aldam

Miss M. B. Walker

Mrs. M. A. Baxendale

THE COLLEGE

The City of Leeds and Carnegie College was formed by the merger, on 1 September 1968, of the City of Leeds College of Education and Carnegie College of Physical Education.

The City of Leeds College for the training of men and women teachers was established in 1907 by the Leeds Education Committee in temporary buildings, and moved to Beckett Park in 1912. Carnegie College of Physical Education was opened in 1933, on the same campus as City of Leeds College, to train men specialist teachers in physical education, the capital cost of premises and initial equipment being met by the Carnegie United Kingdom Trust. Originally it provided one-year courses only, for trained teachers and university graduates. Since 1960, however, Carnegie College and the City of Leeds College have worked in close co-operation to provide a three-year course of initial training for men with specialisation in physical education. The two colleges became one in September 1968 and all physical education, for both men and women, is now undertaken in the Carnegie School of Physical Education, a constituent part of the City of Leeds and Carnegie College.

Few colleges can be more fortunate in their position and site. Situated on the north side of Leeds on the approach to Wharfedale, the College lies on the edge of rural Yorkshire. To the immediate north and north-west is the beautiful and varied country of the Yorkshire dales and Pennine moors. To the east and north-east is the vale of York. Within easy access of the College are the cathedral cities of Ripon and York, the fine monastic houses of Bolton and Fountains, the Bronte country, the inland resorts of Harrogate and Ilkley, and the great sweep of the limestone and gritstone hills of the Pennines. Beckett Park is three miles from the centre of Leeds and two from the university, so theatres, music, libraries, good shops and all the amenities of a large and active university city are within easy reach.

The estate of nearly a hundred acres includes woodland and open parkland, a garden for rural studies, and playing fields. It was originally the park of Kirkstall Grange, an eighteenth-century mansion now used as a hall of residence. The original buildings, erected in 1912, included the teaching block, seven halls of residence and the swimming bath, and the Carnegie College buildings added a teaching block, gymnasium and another hall of residence. Buildings erected in recent years include a tenth hall of residence, the refectory, new buildings for science and modern languages, gymnasium, a covered training area, a medical centre and a student centre. A major reconstruction of the playing fields was completed in 1971.

With over 1,400 students, equally divided between men and women and 600 residential places on the campus, the College is one of the largest in the country.

CARNEGIE SCHOOL OF PHYSICAL EDUCATION

DIRECTOR: J. C. EVANS, M.Ed., Dip.P.E.

J. W. Armstrong, B.A., Dip.P.E.
M. G. Beck, Dip.P.E.
M. D. Butterworth, Dip.P.E.
H. Collins, Dip.P.E.
A. Cross, Dip.P.E.
D. J. Curry, Dip.P.E.
J. R. Emmett, M.A., Dip.P.E.
J. A. Fazey
R. Gillibrand, Dip.P.E., Dip.
Biology, Dip.H.E.
B. Goodman, Dip.P.E.
Miss D. S. Greenwood, Dip.P.E.

A. V. Knibbs, Dip.P.E., M.Phil.
J. Malpass, Dip.P.E.
R. McKenzie, Dip.P.E.
P. R. Morris, Dip.P.E.
G. R. McKinney
Mrs. M. Newby, M.A., Dip.P.E.
A. G. Roche, Dip.P.E.
D. M. Scott, M.C., Dip.P.E.
G. B. White, B.A., Dip.P.E.
N. J. Whitehead, M.Ed., Ph.D.,
Dip.P.E., Dip. Curricular
Studies
G. Whiteley, Dip.P.E.

RESEARCH FELLOW: D. A. Brodie, B.Ed., M.Sc.

The Carnegie School of Physical Education, an integral part of the College, was instituted in September 1968 to continue and develop the work of the former Carnegie College of Physical Education. It has a staff of specialists in physical education covering all aspects of the subject. In addition to teaching, it conducts research in physical education through a recently instituted research unit and publishes a journal "Research Papers in Physical Education".

The accommodation includes five gymnasia, a covered training area with bitu-turf floor for games training and athletics, a floodlit all-weather training area, a swimming pool, a dance studio and an all-weather athletics track and playing fields, all on the College campus. There are laboratory facilities for the theoretical and practical study of physical activities. Outdoor activities take place in the district and further afield, and opportunities are provided for canoeing, sailing, orienteering, ski-ing, gliding and rock-climbing.

In addition to the three-year major course in physical education leading to the Bachelor of Education (Ordinary) degree (see description under School of Physical Education and Human Movement Studies) and the fourth year course for the Bachelor of Education (Honours) degree, the Carnegie School offers the following one-year courses:

- (a) a one-year course of advanced study for physical education specialists leading to the award of the Diploma in Physical Education of the University of Leeds Institute of Education;
- (b) a one-year supplementary course in physical education for serving teachers leading to the award of the Certificate in Physical Education of the University of Leeds Institute of Education;

- (c) a one-year course in physical education for Commonwealth bursars and overseas students leading to the award of the Certificate in Physical Education of the University of Leeds Institute of Education;
- (d) a one-year course in physical education for graduates as part of the course for the Graduate Certificate of Education of the University of Leeds Institute of Education.

ADMISSION TO THREE-YEAR COURSE

The principal course provided by the College is the three-year course for the Bachelor of Education (Ordinary) degree of the University of Leeds. The degree includes qualified teacher status.

For admission to the Bachelor of Education (Ordinary) degree course students must satisfy the normal university entrance requirement of the Joint Matriculation Board, which generally comprises five passes in the General Certificate of Education including two at Advanced level. (Full details of university entrance requirements should be available in school or may be obtained from the Secretary, Joint Matriculation Board, Manchester 15).

Students who do not satisfy the university entrance requirement of the Joint Matriculation Board may be admitted to the three-year course, but instead of the Bachelor of Education degree they will be awarded the Certificate in Education of the University of Leeds Institute of Education. These students must possess a General Certificate of Education with passes in at least five subjects. The competition for places in the College is so keen that candidates with the minimum academic entry qualifications have little chance of being considered. Preference is given to candidates who have a wide range of passes with high grades at Ordinary level and very good prospects of obtaining two passes at Advanced level.

The College requires to be satisfied of a candidate's ability to express himself in good English, both spoken and written. A pass in the General Certificate of Education, or a Grade 1 pass in the Certificate of Secondary Education, or an equivalent qualification, is the minimum examination qualification accepted, but a further test of spoken English may be given at interview. Candidates for the first school and middle years professional courses who have not passed in mathematics at G.C.E. Ordinary level (or equivalent) are required to demonstrate their proficiency in elementary mathematics at the time of interview.

In addition to possessing the necessary examination qualifications, candidates for admission must be at least 18 years of age on 1 October in the year of admission, must satisfy the College as to character, probable suitability for the teaching profession, and health and physical

capacity for teaching, and must have been ordinarily resident in the United Kingdom for three years immediately preceding the date on which the course is due to begin, or else would have been so resident had not their parents, or one of them, been employed for the time being outside the U.K.

APPLICATION FOR ENTRY TO THREE-YEAR COURSE

An application form and an M.W. card accompany this handbook. Candidates must complete the M.W. card and send it to the address shown. The Clearing House will send a registration form, which should be completed and sent to the college together with the completed application form and the registration fee. (Cheques and postal orders should be payable to "The Central Register and Clearing House Ltd.") Applications should reach the College by 8 October, or as soon as possible afterwards. A candidate who has had teaching experience should send with his application form a report from his head teacher.

WITHDRAWAL OF UNSATISFACTORY STUDENTS

All students are admitted on the understanding that they will observe the regulations of the Department of Education and Science and the rules of the College. The governors of the College may demand the withdrawal of any student whose work or conduct is unsatisfactory or who, on the grounds of health or for any other reason, does not appear likely to become an efficient teacher.

GRANTS AND FEES

Most students are "recognised students", receiving grant under the regulations of the Department of Education and Science. Full details about grants may be obtained from the office of the applicant's local education authority, which is normally responsible for the assessment of grants and parental or student's contribution towards boarding fees. Tuition is free for all recognised students.

Details of the board and tuition fees charged to private students, i.e. those not recognised by a local education authority or education department, will be provided on request to the College.

CURRICULUM OF THREE-YEAR COURSE

The curriculum of the three-year course for the Bachelor of Education (Ordinary) degree or the Certificate in Education includes academic and professional studies. The subject matter is built up from standard units of study combined, with a large measure of student choice, into courses. School experience is progressive throughout the course with a substantial period in the third year.

A student's annual programme of study is as follows:

First Year: one major course (6 units); one minor course (3 units); one minor professional course (3 units); school experience.

Second Year: continued study of one major course (6 units); one minor course (3 units); one minor professional course (3 units); school experience.

Third Year: continued study of one major course (6 units); one minor professional course with school experience (5 units); one minor course of educational studies (3 units).

The professional studies are undertaken in the Faculty of Professional and Vocational Studies. They are divided into three broad sections according to the age-range of children students are preparing to teach: first school (age-range 3 to 11), middle years (age-range 7 to 16), and secondary school (age-range 11 to 18). Some students preparing for work in secondary schools may be allowed to take the secondary-youth option and add some youth club experience to their secondary school experience.

The academic studies are undertaken inside one of the following six Schools, which have been formed by the combination of subject departments: Humanities; Mathematical, Scientific and Technical Studies; Social and Environmental Sciences; Education and Behavioural Sciences; Physical Education and Human Movement; Creative Arts. A general description of the courses offered by the Schools is given on later pages.

Under present Department of Education and Science regulations there are restrictions on the choice of major course according to the age-range of children which students are preparing to teach. Students on the first school professional course may choose any of the major courses offered except physical education and craft and technical studies. Students on the middle years professional course may choose any of the major courses offered. Students on the secondary school professional course may choose major courses only in religious studies, mathematics, science, craft and technical studies and physical education.

SCHOOL OF HUMANITIES

The four departments of English, French, history and religious studies offer major courses most of which include a number of components from which a student may select areas of particular interest.

ENGLISH

The courses in English aim to encourage students to examine and discuss books for themselves without being unduly influenced by accepted

critical opinion; to encourage copious reading over a wide range of literature of all periods so that students can put a given book into perspective; through this wide reading to enable every student to choose a field for deeper study that will be the subject of a long essay; to encourage students to write for their own pleasure. For most of the time students are members of seminar discussion groups of about ten students and they have the opportunities to amplify the topics introduced in lectures as well as freedom to choose their own topics under the supervision of their personal tutors.

At the beginning of the first year students select one of four major courses, inside each of which there is further choice.

Literature. The course includes the study of English literature, life and thought covering selected periods and major authors from Chaucer to the present day.

Literature/Drama. A study of selected English literature is combined with selected studies of the nature and form of drama, closely allied to practical production work, vocal and acting techniques, improvisation and technical skills.

Literature/Language. A study of selected English literature is combined with an introduction to language studies which includes style and speech, grammatical studies and a socio-linguistic study of the English language.

FRENCH

A substantial part of the course in French is devoted to language work, which is designed to produce fluency and accuracy in spoken and written French and includes regular language laboratory practice and work with a native French speaker. In literature the stress is on the twentieth century but there is also a wider study of literature to show the main streams of French thought. To complement this there is some study of the history and geography of France together with a detailed examination of certain aspects of contemporary French life. Students are required to spend a short period of study in France during their course.

HISTORY

The major course in history consists of the study of a special period, three shorter studies and a long essay.

Four of the following special periods are available for study each year: (1) Britain in the age of the two world wars; (2) the U.S.A., 1865 to the present day; (3) English society from the Hanoverian Succession to the Revolutionary Wars; (4) Great Britain and Western Europe in the 17th century; (5) government and society in England from the Reformation

to the Civil War; (6) British culture and society, 1830-1936. Students may study any one of these periods provided they do not repeat at College a period already studied for the G.C.E. Advanced level examination. The study is undertaken in depth and primary sources are used wherever possible.

The shorter studies are taken, one in each year, to broaden a student's historical knowledge and open new areas for historical enquiry. Area studies in recent world history and local history and fieldwork are prescribed; the student may complete this area of his work in a study of either aspects of English medieval culture or aspects of the civilisations of the Middle East and Mediterranean world from Sumer to the end of the Roman Republic.

The long essay is written on an approved subject chosen from the area of the special period. The rich historical resources of the immediate locality are exploited, students are introduced to archaeology, take part in field studies and work in the Record Office and the Leeds Local History Library. The department is well equipped and the course as a whole provides students with the opportunity to equip themselves with knowledge and skills to become teacher historians.

RELIGIOUS STUDIES

The course aims to help students to acquire some understanding of the religious, ethical and ideological complexity of the modern world. In the first year students choose two areas of study from: Old Testament History, Religion and Theology; Philosophy of Religion; Theology and Literature; World Religions. In the second year two areas are studied from New Testament History, Religion and Theology; Philosophy and Religion in Eastern and Western Thought; Ethics. In the third year two areas are studied from Biblical Studies; Religion in the West in the 19th and 20th centuries; Biblical and Historical Theology.

Throughout, studies in religion and ethics are correlated with current affairs, literature and philosophy. Students have a wide choice of topics in their course work. An express commitment to a specific Christian position is not required but students are expected to have a genuine interest in values and their embodiment in society.

HUMANITIES

In addition to the main courses in English, French, history and religious studies described above, there is an inter-related course in Humanities, which is a combined study of the period 1930 to 1936. This course is an option open to students whose major course is in English, history or religious studies, and it provides half a student's major course in the

first and second year. The study is concentrated on Britain and covers industrialisation in the early nineteenth century, changing ideologies in the middle and later years of the century, and British imperialism from the middle of the nineteenth century to 1936. Applicants for this course should put on their application forms English/Humanities, History/Humanities or Religious Studies/Humanities as their choice of main course.

SCHOOL OF EDUCATION AND BEHAVIOURAL SCIENCES

As a result of the reconstruction of the three-year course, students now have the opportunity to select a major course in Education and Behavioural Sciences distinct from their professional courses. The courses are in subject areas which will be new to most students but which are fundamental to work in the teaching profession, the youth service and other areas of social work. Students choosing one of the three major courses pursue a common first year of studies which includes sociology, psychology, social philosophy and social history.

PSYCHOLOGY

The course is designed to afford students an insight into human behaviour. In the first year, after a general introductory course, some emphasis is placed on social psychology to help students towards an understanding of the importance of environmental influence. The second year is devoted to human development and includes a study of personality and intellectual development. In the third year emphasis is placed on child psychology and the learning process.

SOCIAL WELFARE AND COMMUNITY STUDIES

Students on this course study: the structure and function of the social services with particular attention to the development of social policy and its present application; the development of children to adolescence in the context of the family, the school and other social units; group and individual relations; the structure of communities and community relationships; the development of community education.

SOCIOLOGY

Students on this course pursue the academic study of sociology as one of the major disciplines underlying the study and practice of education and as a body of knowledge relevant to the teacher. In the search for a descriptive view of contemporary society and an interpretation of specific events, past and present, they study both the potentialities and the limitations of the subject.

Students selecting one of these major courses should write the title of the course they have selected on their application forms. As the first

year is common to all three courses it will be possible for a final selection to be confirmed towards the end of the first year.

SCHOOL OF MATHEMATICAL, SCIENTIFIC AND TECHNICAL STUDIES

The College is recognised by the Department of Education and Science as a centre for the training of specialist science teachers in secondary schools. There are eight well equipped teaching laboratories, research rooms, a science workshop, preparation rooms and lecture rooms. Practical work in computing is based on an on-line link to an I.C.L. 1904A computer.

Units of study are offered in the four subjects; biology, chemistry, mathematics and physics. They may be combined in various ways to suit students' interests. In the first year students are required to compose their major courses from more than one subject, but in the second and third year they may increase their degree of specialisation. No student may choose more than half his major course in mathematics. In making their initial selection on their application forms candidates should show two subjects for study, e.g., Physics/Mathematics, Biology/Chemistry.

Students choosing major courses in the sciences should have at least one Advanced level G.C.E. pass in a science and at least an Ordinary level G.C.E. pass in mathematics.

BIOLOGY

The units of study offered in biology have two main objectives: the statement and discussion of basic biological principles, and the interpretation of these principles in the study of various kinds of organism in different environments or habitats. These objectives are pursued through morphological, physiological and ecological class-studies in the field and laboratory. Units of study include: the environment and the structure of organisms; biology of invertebrates; vertebrate evolution and behaviour; mammalian physiology; micro-biology; plant nutrition; ecological dynamics; evolutionary genetics. Stress is placed on the study of natural associations of plants and animals, so local short-duration excursions and two field visits are made to locations away from the College. One expedition is to an inland area (usually the limestone country around Malham) and the other is to a marine station on the Yorkshire coast. The laboratories are equipped with a wide range of modern apparatus for all common important biological investigational techniques. Modern microscopes are available to all students and, in addition to the normal monocular and binocular facilities, phase-contact and polarising microscopy are

used and taught. Care is taken to keep the work up-to-date and, when appropriate, topical, without neglect of the classical foundations on which it is based.

CHEMISTRY

The studies in chemistry include lectures, seminars and practical work in physical, inorganic and organic chemistry with attention to the history of chemistry and its industrial applications. The work in physical chemistry includes structure, energetics, kinetics and solution phenomena. Inorganic chemistry is treated from the standpoint of periodicity and the electronic structure of atoms, with particular reference to the elements in the s, p and d blocks. The work in organic chemistry includes the study of selected aliphatic, aromatic, hydroxycarbonyl and heterocyclic compounds and their derivatives. Modern biochemistry, analytical techniques and inorganic solid state chemistry also may be studied. Each student undertakes the special study of an approved topic involving practical work and the writing of a dissertation. Studies involve the application of modern experimental techniques such as infra-red and ultra-violet spectroscopy and liquid and gas chromatography.

MATHEMATICS

The mathematics course presents a broad range of mathematical ideas, techniques and applications. Units of study include: modern algebra, with an emphasis on algebraic structures, including a study of groups, fields and spaces, leading to linear and matrix algebra; analysis and calculus, including derivatives, power series and differential equations; vector analysis and vector methods applied to physical problems; statistical methods; computer appreciation, including programming in BASIC, numerical and non-numerical techniques, applications and implications in society. There are facilities for the off-line preparation of computer programs on paper tape.

PHYSICS

The work in physics is in the following broad areas: mechanics; relativity; electromagnetism; electronics; vibrations and waves; physical optics; kinetic theory; thermodynamics; quantum theory; astro-physics; the atomic nucleus; properties of solids, liquids and gases. The course has a strongly practical bias and includes a selection of set experiments covering a wide range of experimental techniques, short problem-solving investigations and longer individual experimental studies. For projects in astronomy a Newtonian telescope and a double beam radio telescope are available. There are facilities for receiving weather satellite photographs and data.

ART AND CRAFT

The art and craft department has seven studios equipped for textile subjects, photography, print-making and graphics, two-dimensional studies, ceramics and three-dimensional design. In the first year all students study basic techniques, creative design and the history of art. In the second year they choose units of study from a wide variety of activities. Courses of lectures, discussions and visits to local exhibitions cover the historical, aesthetic and educational aspects of the activities.

DRAMA

Students study the nature and form of drama, closely allied to practical production work, vocal and acting techniques, improvisation and technical skills. Units include: costume and design; language study; movement; closed-circuit T.V./film; theories of drama; close examination of a large variety of plays. The work is not heavily biased to acting but rather to interpretation and the study of a number of the factors that contribute to the better understanding of drama. Facilities include a drama studio for class work and small-scale productions and a hall and stage for bigger presentations. Students may choose to follow a major course or combined major course as described above or a combined major course with English (see School of Humanities: English).

MUSIC

The music department is well equipped with practice studios, a generous supply of pianos, a two-manual harpsichord, a virginal, a clavichord, a four-manual pipe organ and a two-manual practice organ. String, brass and woodwind instruments are available on loan. Students participate as appropriate in ensemble, orchestra and choral work. Some keyboard ability is required, although players of other instruments may take up piano playing from the beginning. The course includes the study of instrumental (or vocal) performance to an advanced level, together with a subsidiary instrument (preferably a new venture) and recorder. Class tuition is given in aural training, keyboard skills, sight singing, harmony and musical literature.

CRAFT AND TECHNICAL STUDIES

The College has a large and comprehensive craft and technical studies department with new and up-to-date accommodation and equipment, including workshops for woodwork, engineering, forging, casting, welding, silver-smithing, jewellery, enamelling and plating, and an engineering laboratory in which technology and its relationship with science is studied, all under the supervision of specialist tutors. Students

take a general course in creative work during their first year, which involves a wide approach to craft practice in a variety of media, and a study of drawing and design. Drawing is considered important but is treated more as a means of communication, with the emphasis on the wider aspects of design, rather than according to the conventional technical drawing syllabuses. The wide and co-ordinated practice in craftwork and drawing is continued in the second and third years with the opportunity to specialise in two advanced crafts from wood, metal, plastics and silver-smithing and jewellery. The course is open to men and women.

BACHELOR OF EDUCATION HONOURS DEGREE

Students on the three-year course are eligible to register for the degree of Bachelor of Education with Honours of the University of Leeds, which is awarded after a fourth year course. Degree candidates must satisfy the general entrance requirement of the University of Leeds, but students may be allowed to take a special entrance examination during their first year at College.

Students who wish to take the degree should consult their personal tutors soon after entering College. Registration for the degree is made at the end of the first year. Registered students are encouraged to plan their studies for the degree, and they proceed to the fourth year of study if (1) they are qualified and registered before the end of the first year, and (2) they reach an approved standard in their examinations for the Certificate in Education or Bachelor of Education (Ordinary) degree. Each student takes two subjects in the fourth year, Education and his special subject, together with a study linking the two; the linking study is usually on some aspect of the teaching of the principal subject. Honours degree courses are provided in all the main subjects offered by the College.

The following table summarises the opportunities open to students entering the three-year course.

	<i>Students qualified for university entrance before College entry</i>	<i>Students not qualified for university entrance before College entry</i>	
		<i>Either</i>	<i>Or</i>
		Remain not qualified for university entrance	Obtain university entrance qualifications and register for B.Ed. (Honours) during first year
Third year	B.Ed. (Ordinary)	Certificate in Education	Certificate in Education
	If reach approved standard in above	Course ends	If reach approved standard in above
Fourth year	B.Ed. (Honours)	—	B.Ed. (Honours)

ONE-YEAR COURSES

COURSE OF PROFESSIONAL TRAINING FOR GRADUATES

There is a one-year course, open to graduates and holders of equivalent qualifications, for the Graduate Certificate in Education of the University of Leeds Institute of Education. For suitably qualified students this may be combined with a study of physical education in preparation for specialist teaching of physical education in secondary schools. Further details will be supplied on request.

COURSE FOR INTENDING TEACHERS OF CRAFT AND TECHNICAL STUDIES

There is a special one-year course for intending teachers of craft and technical studies designed to prepare craftsmen with experience in industry for teaching in schools. It is open to craftsmen who possess one of the following qualifications: (a) passes in both sections (general and craftwork) of the City and Guilds of London Institute Teacher's Certificate in Handicraft (present revised scheme); or (b) passes in the First Handicraft Examination and Section 1 of the Second Handicraft Examination of the City and Guilds of London Institute (previous scheme, now discontinued); or (c) Full Technological Certificate (in an appropriate wood-working or metalworking trade) of the City and Guilds of London Institute; or (d) Higher National Diploma; or (e) Higher National Certificate. They should normally have reached the age of 25 on 1 October in the year in which the course begins, but younger candidates may be admitted in exceptional circumstances, either to the one-year course or to a two-year course. Further details will be supplied on request.

COURSES FOR QUALIFIED TEACHERS

For qualified teachers there are one-year supplementary courses in:

- (i) education of backward children;
- (ii) physical education (in the Carnegie School of Physical Education).

Further details of these courses will be supplied on request.

RESIDENCE

The College was founded as a fully residential College and there are ten halls of residence, all on the campus. In recent years the need for expansion of student numbers has made it necessary to admit a larger proportion of students living in the parental homes and to use approved lodgings as a form of residence, and the desire of some students to live independently has been recognised. The College still regards residence