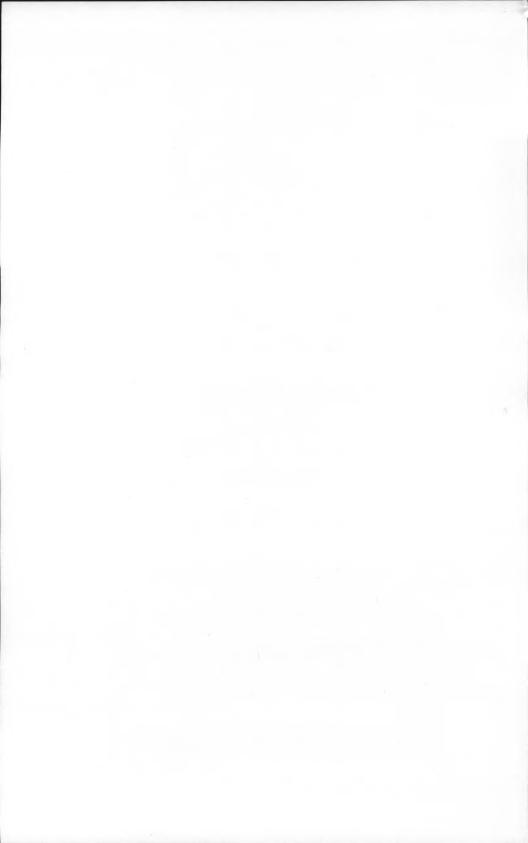
# CORNELL UNIVERSITY OFFICIAL PUBLICATION

School of Education
1953-54



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#### **FACULTY**

- Deane W. Malott, A.B., M.B.A., LL.D., President of the University. Andrew Leon Winsor, Ph.D., Head of the Department of Rural Education and Director of the School of Education.
- J. Stanley Ahmann, Ph.D., Assistant Professor of Rural Education.
- Howard G. Andrus, Ph.D., Director of the Educational Placement Bureau and Assistant Professor of Rural Education.
- Frank C. Baldwin, M.A., Dean of Men.
- C. Kenneth Beach, Ph.D., Professor of Industrial Education.
- Sara E. Blackwell, Ph.D., Assistant Professor of Home Economics Education.
- Mrs. Dorothy V. N. Brooks, Ed.D., Dean of Women and Professor of Education.
- John M. Brophy, Ph.D., Associate Professor of Industrial and Labor Relations.
- Julian Edward Butterworth, Ph.D., Professor of Rural Education (Educational Administration), Emeritus.
- Samuel J. Catalfano, M.S., Supervisor of Practice Teaching in Modern Languages, Ithaca Public Schools.
- Cora B. Chase, M.S., Professor of Rural Education (Home Economics Education), Emeritus.
- Ethelywn G. Cornelius, M.S. in Ed., Instructor in Home Economics Education.
- E. William Crane, B.S., Instructor in Rural Education.
- Carolyn H. Crawford, M.S., Assistant Professor of Home Economics Education.
- Robert H. Dalton, Ph.D., Professor of Child Development and Family Relationships.
- Dora M. DePew, M.A., Supervisor of Practice Teaching in Mathematics, Ithaca Public Schools.
- Theodore H. Eaton, Ph.D., Professor of Rural Education, Emeritus.
- Theodore E. Eckert, Ph.D., Assistant Professor of Rural Education (Science Education).
- Lloyd Elliott, Ed.D., Associate Professor of Rural Education (Educational Administration).
- Margaret Elliott, M.S., Instructor in Home Economics Education.
- Lynn A. Emerson, Ph.D., Professor of Industrial Education.
- Jean Failing, Ph.D., Professor of Home Economics and Coordinator of Resident Instruction, College of Home Economics.
- Frank S. Freeman, Ed.D., Professor of Psychology and Education.

Marvin D. Glock, Ph.D., Professor of Rural Education (Educational Psychology).

Eva L. Gordon, Ph.D., Associate Professor of Rural Education (Nature Study).

Helen Hoefer, M.S. in Ed., Associate Professor of Home Economics Education.

Edwin R. Hoskins, Ph.D., Professor of Rural Education (Agricultural Education).

Margaret Hutchins, Ph.D., Professor of Home Economics Education. Loretta Klee, M.A., Assistant Professor of Education and Director of

Social Studies, Ithaca Public Schools.

Paul J. Kruse, Ph.D., Professor of Rural Education (Educational Psychology), Emeritus.

Claude L. Kulp, M.A., Professor of Education.

William R. Kunsela, Ph.D., Assistant Professor of Rural Education (Agricultural Education).

Margaret La Pray, M.S., Instructor in Education.

J. Paul Leagans, Ph.D., Professor of Extension Education.

Clyde B. Moore, Ph.D., Professor of Education.

Helen Moser, M.A., Associate Professor of Home Economics Education.A. Gordon Nelson, Ph.D., Associate Professor of Educational and Vocational Guidance.

Harold Noakes, Ph.D., Instructor in Rural Education (Agricultural Education).

Milacent G. Ocvirk, M.A., Director of English, Ithaca Public Schools. E. Laurence Palmer, Ph.D., Professor of Rural Education (Nature Study and Science Education), Emeritus.

H. Irene Patterson, M.S., Associate Professor of Home Economics Education.

Isabel Peard, Ph.D., Assistant Professor of Education, Director of Student Deans and Head Residents.

William A. Smith, Ph.D., Associate Professor of Rural Education (Agricultural Education) and Director of Extramural Courses.

Rolland M. Stewart, Ph.D., Professor of Rural Education, Emeritus. Frederick H. Stutz, Ph.D., Associate Professor of Rural Education (Secondary Education).

Flora M. Thurston, M.A., Professor of Home Economics Education, Emeritus.

Ethel Waring, Ph.D., Professor of Child Development and Family Relationships.

# ASSISTANTS, 1952-53

William Anderson, M.A., Assistant in Rural Education. Ruth Dales, M.S., Assistant in Home Economics Education. Marilyn Horn, M.S., Assistant in Home Economics Education.
John Charles Jones, M.S., Assistant in Rural Education.
William Kneisel, M.S. in Agr., Assistant in Rural Education.
Helen McMullen, M.S., Assistant in Home Economics Education.
H. L. Marlow, M.A., Assistant in Industrial Education.
Patricia Nutt, M.A., Assistant in Rural Education.
M. Dennison Olmsted, M.S. in Ed., Assistant in Rural Education.
Clare L. Pineo, M.S., Research Fellow, Rural Education.
Donald Shipley, M.S., Assistant in Rural Education.
Orville E. Thompson, M.Ed., Assistant in Rural Education.
Fred K. T. Tom, M.S. in Agr., Assistant in Rural Education.
Dorothy Jean Westfall, B.S., Assistant in Home Economics Education.
Avola Whitesell, B.S., Assistant in Rural Education.
Dora Worbs, M.L.S., Assistant in Rural Education.
Herbert Zollitsch, M.S., Assistant in Industrial Education.

#### FORD FOUNDATION FELLOWS

Betty Burkhalter	Elizabeth Freiberger	Cynthia Margetts
Lucille Carley	Kennon Kethley	Jane F. Nicklin
Thais B. Chipps	Elizabeth Kinsman	Afroz Quraishi
William Davis	Joyce C. Loeb	Natalie Rogers
	Elizabeth Thomas	

#### STUDENT DEANS

Donna Barnes	Joyce Harold	Marion Orton
Suzanne Block	Nancy Hoddick	Marguerite Rounds
Margene De Smidt	Maureen Holmberg	Rosemary Scott
Elizabeth Foulds	Patricia Marks	Emilie Starke
Nila Haresign	Jane McCormick	Martha Thompson
	Eleanor Winzler	

# SUPERVISING TEACHERS ELEMENTARY TRAINING PROGRAM

Ernestine Banford	Ruth Lewis
Lucile Brinsmaid	Ellen Mahaney
Virginia Bristow	Elizabeth Minard
Mildred T. Close	Dorothy E. Parker
Marion Evans	Lila B. Sheppard
Katherine Knapp	Ursula J. VanDeman
Hazel Lamb	David Witt

# COOPERATING TEACHERS IN THE ITHACA PUBLIC SCHOOLS

William Andrews Lawrence Bach Ruth B. Balmuth Zelma Becker Fred Bennett Mary Alice Boehlert Anne Bullock Samuel Catalfano Mayfred Claflin Albert W. Clark Josephine Conlon Leonora Cooper Dora DePew Marian Elliott Kenneth Elmore Louise Green Eloise T. Hadlock Kasmir Hipolit Elsie Hinman Emily Howes Robert Hubbell

Lois Hudson Susanne E. Jacobus Theodore Judway Albert E. Lawrence Ruth Miller Roger Ming Mary Louise Morse Martha Neighbor Carolyn O'Brien Curtis Pfaff Harry Powell Walter Schroeder **Jack Shuel** Kathryn Stenson Sarah Stutz Iane Stoutenburg Carol Taber Richard E. Wells Margaret L. Woodside Adelaide Wright Donald Young

Dewitt Zien

# COOPERATING TEACHERS IN CENTERS OUTSIDE ITHACA

Patricia K. Morton, Trumansburg

Elizabeth Thurston, Dryden

# COOPERATING ADMINISTRATORS

Bertha Bartholomew, Principal, Boynton Junior High School Russell I. Doig, Principal, Trumansburg Central School William L. Gragg, Superintendent, Ithaca Public Schools Edward Long, Principal, Dryden Central School Marjorie Smith, Principal, West Hill School Louis J. Wolner, Principal, Homer Central School

# ORGANIZATION AND FUNCTIONS

THE SCHOOL of Education at Cornell is composed of staff members engaged in professional education work in the College of Agriculture, the College of Home Economics, the College of Arts and Sciences, and the School of Industrial and Labor Relations. Its purpose is to integrate specifically the work of teacher education in the Department of Rural Education, the Department of Home Economics Education, and the Division of Industrial Education, and the courses of professional workers in the field of education in the College of Arts and Sciences. Particular opportunity is thus provided for coordinated undergraduate and graduate work in such fields as agricultural education, administration and supervision, curriculum construction, educational psychology, extension education, guidance and personnel management, home economics education, industrial and technical education, science education, nature study, and conservation education.

Cornell University offers many advantages and opportunities for students preparing to teach. The students in education attend classes with all other students in the University; thus they have access to the strong subject matter courses and laboratories that the various colleges have built up. They live in the dormitories and fraternities with students preparing for other professions and occupations and enjoy the social and

educational stimulation that a large university provides.

# TYPES OF PROFESSIONAL WORKERS SERVED

The School of Education prepares workers for many different types of positions. It offers preparation for initial positions in teaching and professional services in elementary and secondary schools, in extension services, and in colleges. For experienced teachers and school officers of proved ability, it provides for education leading to administrative, supervisory, counseling, and other specialized services in the field of education. For teachers of superior attainment or qualification, further preparation is provided for positions in research, authorship, and administration, and for professorships in institutes and colleges.

Curricula for the several types of workers in the public schools correspond, in general, to such curricula elsewhere. In rural education, the offerings undertake to adapt the general principles of education to the special conditions found in rural areas (defined in New York State as communities with a population of less than 4,500). In recognizing that these special conditions make adjustments in the program of preparation desirable, the fact is not overlooked that elements common to all education usually predominate in any curriculum. Among those persons given

special attention as rural workers are teachers, supervisors, and directors of agriculture; principals of central, consolidated, and village schools; county, district, and village superintendents; and specialists in extension education for teachers' colleges, universities, and state education departments. Courses for elementary teachers are given only on the graduate level. The School of Education also renders assistance to certain departments in the Colleges of Agriculture and Home Economics in the preparation of such workers as 4-H club leaders and county agricultural and home demonstration agents and extension workers. In brief, education at Cornell University aims to prepare various types of leaders competent to deal understandingly with those problems, both general and special, found in educational institutions. In all curricula, students are given opportunity to become acquainted with the educational problems and practices found in representative New York communities. Notable among these resources for effective teacher preparation is the system of central secondary schools that offers, in most communities, exceptional opportunities for the education of young people.

# UNDERGRADUATE STUDY

#### ADMISSION OF UNDERGRADUATES

Applications for admission should be made on forms provided by the Office of Admissions. A candidate for admission as a freshman in the undergraduate colleges must satisfactorily complete secondary school subjects carrying a value of 15 entrance units. The subjects in which these units may be offered, the number of units that may be credited in each subject, and the units required in specific subjects by the several divisions of the University, together with other general information about admission and costs at Cornell, are all described in the *General Information Announcement*. This booklet may be obtained from Cornell University Official Publication, Edmund Ezra Day Hall, Ithaca, N.Y.

# GUIDANCE AND SELECTION OF UNDERGRADUATES

In most cases the student will be assigned to a regular college adviser on entrance. In order that the prospective teacher may secure advice regarding his professional program, he should, as early as possible in his university experience, consult with the official adviser in his teaching field. A list of these advisers is given on page 9.

As the student proceeds in his preparation for teaching, appraisal will be made of the development of his abilities, understandings, and appreciations, and of such other qualities as make for success in teaching. Special determinations will be made at two principal points as to the fitness of the candidate to continue: (1) at the end of the sophomore year, and (2) prior to the period of student teaching in the senior year. Committees

responsible for the selection in the several fields will be concerned with the personal and physical fitness of the candidate, his emotional and intellectual equipment, his general and special academic competence, his familiarity with current affairs, and his ability to use the English language.

Knowledge gained of the student by his advisers and his instructors, supplemented by the health record and the more formal measures such as psychological and personality tests, will provide information useful in judging the strictly personal factors involved. In general, each student will be expected to maintain a standing in scholarship at least equal to the average of his college. Competence in this field of teaching will be tested at the close of the fourth year of residence. A steady growth in the use of English will be expected of each student. Standards of accomplishment will be set up for the several groups of prospective teachers, beginning in the freshman year, and checked at frequent intervals throughout the period of preparation. Training in the organization of materials and in reading will be required. Opportunity to discover and remedy defects in speech will be provided.

These requirements and standards may be supplemented by additional requirements in the several fields of training in order to ensure a high degree of competence at all levels and to meet the special demands in different areas of teaching. Students entering the program later than the sophomore year will be expected to meet the standards and requirements indicated above.

Students planning to apply for admission to the undergraduate colleges should apply directly to the Director of Admissions of the University. If they expect to obtain a Bachelor of Science degree, they should apply for admission to the Colleges of Agriculture or Home Economics. If they seek a Bachelor of Arts degree, they should apply to the College of Arts

Students planning to teach should consult with official advisers as follows:

Academic Subjects except Science: ——, 245 Goldwin Smith

Agriculture: Assistant Professor Kunsela, 205 Stone

Art: Professor J. A. Hartell, 303 White

Home Economics: Professor Margaret Hutchins, Apt. C, Van Rensselaer Industrial and Technical Education: Professor C. Kenneth Beach, School of Industrial and Labor Relations

Science: Assistant Professor Theodore E. Eckert, 118 Fernow

#### VETERANS

Information pertaining to eligibility of veterans for benefits is contained in the General Information booklet.

#### UNIVERSITY REQUIREMENTS

Male candidates for baccalaureate degrees must fulfill the University requirements in military science, and all undergraduates must fulfill the requirements in physical training. For details see the *Announcement of the Independent Divisions and Departments* and the Announcements of the undergraduate divisions of the University.

#### LIVING FACILITIES

Information about housing and living costs is contained in both the General Information booklet and the Announcement of the Graduate School.

#### TUITION AND FEES FOR UNDERGRADUATE STUDENTS

A student pursuing the undergraduate program will pay the tuition of the college in which he is matriculated as a candidate for the Bachelor's degree. Tuition is free in the state colleges and schools to residents of New York State.

Tuition in the Colleges of Arts and Sciences and of Architecture is \$350 a term. Details of tuition and fees in both state and endowed divisions of the University are given in the *General Information Announcement*.

Registration Deposit. A deposit of \$30 must be made by every applicant for admission after the applicant has received provisional notice of acceptance, unless the candidate has previously matriculated as a student at Cornell University. Of this deposit \$18 is used to pay the matriculation fee, chest X-ray, and examination blank charge; the \$12 balance is a guaranty fund that must be maintained with the Treasurer until the student graduates or permanently withdraws.

#### UNDERGRADUATE PROGRAMS OF PROFESSIONAL PREPARATION

The requirements for teaching certificates vary considerably throughout the country. A student preparing to teach should not assume that the completion of the requirements for a degree at Cornell, including courses in education, automatically qualifies him for a teaching certificate in the locality in which he plans to teach. Special requirements of the state or city in which the student expects to teach should be a guide in planning a teacher training program. Questions concerning these requirements should be referred to the student's adviser in education.

Observation and directed teaching are conducted in selected schools of Ithaca and near-by communities. Apprentice teaching also will be done in off-campus schools, selected primarily to provide better than average opportunity for experience and growth. Students engaged in apprentice teaching in vocational agriculture will live in the school community during the period of this experience and will be expected to participate in community life.

#### TEACHERS OF AGRICULTURE

Graduation Requirements of the College of Agriculture. Students preparing to teach in the field of vocational agriculture will register in the New York State College of Agriculture and must meet the requirements of that College for graduation. The College of Agriculture requires the completion of the following program of courses: orientation, 1 hour; English, 6 hours; botany, biology, or zoology, 6 hours; chemistry or physics, 6 hours; geology, 3 hours; basic sciences and social studies, 24 hours; electives in the College of Agriculture, 54 hours; general electives, 20 hours.

Technical Studies in Agriculture and Related Sciences. In the present plan for the preparation of prospective teachers through the New York State College of Agriculture, a total of 54 semester hours in agriculture and related science is required. A minimum of 36 of these hours should be distributed in the following broad fields:

S	Semester hours Minimum
Agricultural economics and farm management	6
Agricultural engineering and farm mechanics	
Farm animals including dairy and poultry	
Farm crops chosen from field, vegetable, and fruit crops	6
Soil technology	3
Dairy science	

General Electives. The prospective teacher will find opportunity to select such courses from agriculture, science, or other University offerings as will contribute further to his preparation for teaching.

#### TEACHERS OF ACADEMIC SUBJECTS

Graduation Requirements of the College of Arts and Sciences. At Cornell University all prospective teachers of academic subjects, except students in the College of Agriculture preparing to teach science, will register in the College of Arts and Sciences and must meet the graduation requirements of that college. For full information consult the Announcement of the College of Arts and Sciences.

Preparation in the Teaching Field. The student must select, before the end of the second year of residence, a major field of study. The specific requirements vary somewhat according to the field. For full information consult the Announcement of the College of Arts and Sciences.

As an aid to the prospective teacher, programs in the academic subjects have been established, for the four undergraduate years, which meet college requirements and provide the preparation needed for teaching in the secondary schools. These programs vary in extent and in the number of prescribed courses. It is desirable that some one of the programs below be selected, although other combinations may be arranged to suit individual needs.

English and Speech. In the sophomore year the student takes the course in great English writers (English 251-252) and a course in composition (English 201 or 203). In the junior year he takes the survey course in American literature (English 329-330), and in the senior year the course in Shakespeare (English 369-370). In addition to these requirements the following courses are recommended for prospective teachers: one course in criticism (which may be Literature 401-402), the course in American folk-literature (English 355), and a course in modern poetry (English 326 or 349). The requirement for this special English major is thirty hours after English 111-112 has been completed. Nine hours of speech must be included in the related subjects, preferably Speech and Drama 101, 111 or 141, and 333. Students primarily interested in speech and drama should major in that department and supplement their training with considerable work in English.

Latin. Students desiring to prepare themselves to teach Latin in the secondary schools should fulfill the requirements of the major in classics. A combination may be made between Latin and another field of study which will satisfy the major requirements and prepare prospective teachers in both subjects.

Modern Foreign Languages. Students desiring to prepare themselves to teach the modern foreign languages in secondary schools should study carefully the offerings by the Division of Modern Languages and the several departments of literature. Majors are offered, with emphasis as desired by the student either in literature or linguistics, in French, German, Russian, and Spanish. For detailed descriptions of work involved for the completion of the majors in these fields, see the Departments of German Literature, Romance Literature, and Russian Literature, and the Division of Modern Languages in the Announcement of the College of Arts and Sciences.

Mathematics. Preparation for teaching mathematics is based on the major requirement in the subject: 9 hours of analytic geometry and calculus plus 15 hours of advanced courses. Course 241-242 should be taken by all prospective teachers. As the teaching of mathematics is frequently combined with the teaching of physical science or general science, it is recommended that considerable work be taken in the sciences.

Science. Teachers of science may be prepared either through the College of Agriculture or through the College of Arts and Sciences. In the College of Agriculture the training includes 36 hours of basic courses in physical, biological, and earth sciences, and approximately 24 hours of advanced courses in one of these areas. The program in the College of Arts and Sciences is based on approximately 20 to 40 hours in a major field, ordinarily chosen from botany, chemistry, physics, or zoology, and additional courses to make a total of approximately 60 hours in science. In addition, completion of the minimum certification requirement of 15 hours in mathematics is advisable.

Social Studies. In social studies the student may major in history, economics, government, or sociology, although concentration in history is preferable. The

basic program must include 18 hours of history and 18 hours of social science. Depending upon the major subject selected, the number of hours in the program will aggregate from 48 to 60.

During the fifth year, the prospective teacher of an academic subject may select, under the guadance of his Special Committee, from 15 to 20 hours of advanced courses and seminars in his teaching field.

#### TEACHERS OF HOMEMAKING

Teachers in Public Schools

Graduation Requirements of the College of Home Economics. Students preparing to teach home economics in the public schools will register in the New York State College of Home Economics and must meet the requirements of that College for graduation. In brief, the College requires the completion of 30 hours of basic sciences, of which 6 are to be in the biological sciences, 6 in the physical sciences, 12 in the social sciences, and 6 additional hours to be distributed among the three groups; 6 hours of English; 40 hours of home economics to include the "homemaking core"; 44 additional hours, of which 24 hours may be in any college of the University, and of which 20 hours must be in courses offered in the State Colleges of Home Economics, Agriculture, and Veterinary Medicine, and the State School of Industrial and Labor Relations. Detailed information may be secured from the Announcement of the College of Home Economics

Subject Matter Requirements of the State Education Department for Certification. In the majority of school systems instructors in home economics teach all phases of homemaking. Even in those schools in which homemaking is departmentalized, it is desirable that each teacher have a broad view of the entire field. Information concerning state certification requirements may be secured from the Announcement of the College of Home Economics.

Extension Workers

Graduation Requirements of the College of Home Economics. See the requirements for teachers of home economics, above.

Subject Matter Recommendations in Addition to Graduation Requirements. It is recommended that students preparing for extension work have general training in homemaking and courses in sociology, psychology, economics, and education.

To assist the students in meeting these recommendations, a suggested plan is set up for the use of students and their counselors. This plan provides for courses as indicated to meet graduation requirements, recommended courses of special interest for extension workers, and elective courses which will further contribute to the student's preparation for extension service.

Suggested Experience. A student preparing to do extension work should plan her college program and her experiences during the summer to provide opportunity to work with individuals and groups, to observe and study communities and the significant situations and problems to which home economics applies. Summer experience in the extension service program is recommended whenever possible. Opportunities for volunteer work can be provided between freshman-sophomore, sophomorejunior years by the extension service. Summer assistant positions with compensation are provided between junior and senior years.

Practice in public speaking, radio, newspaper writing, and discussion

with a variety of groups and organizations will be valuable.

#### TEACHERS OF ART

The School of Education cooperates with the College of Architecture in the preparation of teachers of art. Students desiring to prepare in this field should register in the College of Architecture as candidates for the degree of Bachelor of Fine Arts. See the Announcement of the College of Architecture for the curriculum.

The technical work in art, history of art, and related subjects, required of such students, is the equivalent of more than three full years of work, with the remainder of the time being spent on general education and

professional education.

The technical work in art is given by members of the staff of the Department of Painting and Sculpture, who are all practicing artists. It affords a training in the fundamentals of design, drawing, and painting, which aims to equip the student as a competent practitioner of his art, as well as a teacher.

# GRADUATE STUDY

#### ADMISSION

Admission to study in the Graduate School is granted to men and women whose personalities, experience, and records provide evidence of ability to succeed in the various fields for which the school provides preparation. Members of the Faculty examine carefully the application of each individual and make recommendations to the Graduate School relative to his fitness as a candidate. Every student, whether or not he is a candidate for a degree, must be admitted by the required procedures before he registers in any course. Final admission rests with the Dean of the Graduate School.

Because of the time required to secure and evaluate transcripts and other records, a period of two to four weeks usually elapses between the receipt of an application and formal action upon it. Every effort will be made to render decisions promptly, and applicants can assist materially by making early applications.

Students may be admitted to the Graduate School in one of the following three classes: (1) candidates for advanced degrees; (2) Resident Doctors; (3) graduate students not candidates for degrees ("noncandi-

dates").

An application for admission should be made on the proper form, which will be supplied at the office of the Graduate School, 125 Edmund Ezra Day Hall. No application will be acted upon until all the credentials enumerated in this form have been filed. For admission in the fall term, the application should be filed before March 1; for admission in the Summer Session, between March 15 and May 1. Though applications may be filed at any time, the officers cannot give assurance that the application will receive the same consideration that it would receive if filed during those periods.

An applicant who is not a graduate of Cornell University must submit

complete official transcripts of all previous college studies.

To be admitted to the Graduate School, either as a noncandidate or as a candidate for a degree an applicant (1) must have received his baccalaureate degree from a college or university of recognized standing or have done work equivalent to that required for such degree; (2) as judged by his previous scholastic record, or otherwise, must show promise of ability satisfactorily to pursue advanced study and research; and (3) must have had adequate previous preparation in his chosen field of study to enter at once upon graduate study in that field.

Since professors in each field have a restricted allotment of graduate

students, late applicants may be denied admission.

#### THE PROFESSIONAL DEGREES IN EDUCATION

The Graduate Faculty distinguishes in purpose and in administration between two types of advanced degrees: professional and general.

Advanced professional degrees in education are designed as preparation and training for the professions of education. The admissions, requirements, and curricula for such degrees, as approved by the Graduate Faculty, are announced and administered by the Faculty of the School of Education, which is a division of the Graduate School. Degrees are awarded upon recommendation of the School of Education to the Graduate Faculty.

Two professional degrees are offered, namely, Master of Education and Doctor of Education. The Master of Education degree is planned for those who desire to complete a fifth year of preparation for teaching beyond a Bachelor's degree, or for the preparation of specialists in education; and the Doctor of Education degree for leadership in education. The program leading to these degrees shall include such courses, seminars, projects, and investigations of an advanced or graduate nature as

will develop ability to perform acceptably the professional duties required of the several types of educational workers.

Registration. Candidates registering for a professional degree, Doctor of Education or Master of Education, must register in the School of Education and with the Registrar of the University. On official registration days this registration takes place at Barton Hall. Preceding the fall term, the Registrar notifies all students of the hour at which they are to report; if a graduate student does not receive notification at least a week before registration day, he should communicate with the Graduate School or the School of Education. Registration must be made in person. If a student cannot register at the appointed hour he should report at the appropriate office at the earliest time thereafter, bringing an endorsement signed by his adviser or chairman. A fee of \$5.00 is required for late registration by matriculated students.

A registered student who for any reason discontinues his work during a term should immediately report that fact to the division which administers his degree in order to obtain an official withdrawal and any refund of tuition or fees he may be entitled to.

The student is responsible for fulfilling all requirements for degrees, as indicated in the catalogue.

#### THE DEGREE OF MASTER OF EDUCATION

The program for the degree of Master of Education (M.Ed.) is designed for two groups: (1) those preparing for teaching or other comparable professional positions; (2) those preparing for leadership in the educational profession.

Admission to Candidacy. To be admitted for this degree an applicant must hold a Bachelor's degree from an institution of recognized standing, give evidence of ability necessary for successful progress in graduate study, and show a sincere interest in the profession. The Committee on Professional Degrees is responsible for action on admissions.

Residence. For the M.Ed. degree, a minimum of two units of residence is required. Residence units may be earned in regular terms, summer sessions, or extramurally.

Supervising Committee. A candidate must select a Committee of two or more members from the Graduate Faculty, one of whom will serve as chairman and represent the School of Education. Other members of the Committee are to be selected with the advice of the chairman, to give adequate representation of the candidate's program. All members of the Committee shall approve the candidate's program.

Program of Studies. Within two weeks after registration for the first unit of residence a candidate shall meet with his entire Committee to

plan a program of studies. The program, designed to develop professional competence, must include a minimum of thirty hours of credit in courses and seminars. Courses in *educational psychology* and in the *history and philosophy of education* shall be required of the candidate who has not previously completed such courses.

The candidate is required to have completed in candidacy or elsewhere courses and directed participation in the art of teaching appropriate to

the field of professional service for which he is preparing.

The remainder of the candidate's program shall include courses in a teaching field or such other courses as will give unity and breadth to the program.

Essay. A candidate for the M.Ed. degree must complete an essay which is acceptable to his Committee. Regulations concerning preparation of essays shall be determined by the Committee on Professional Degrees. One copy of this essay, suitably bound, must be filed with the School of Education.

Diagnostic Examination. A candidate for the M.Ed. degree must take a written diagnostic examination prepared and administered by the School of Education. The examination, to be taken within one week after registration for the first unit of residence, shall be designed to appraise the candidate's knowledge of the field of education and ability in reading and communication. The Supervising Committee shall use examination results as a guide in planning with him a program of studies.

Final Examination. For the M.Ed. degree a candidate must pass a comprehensive final examination conducted by his Committee. The examination, to be both written and oral, shall be designed to measure the candidate's proficiency in the theory and practice of education.

# THE DEGREE OF DOCTOR OF EDUCATION

The program for the degree of Doctor of Education (Ed.D.) is designed to prepare the candidate for a position of leadership in the educational profession.

Admission to Candidacy. Prior to admission, a candidate for the Ed.D. degree must have completed a minimum of three years of successful experience appropriate to his proposed field of professional service.

The applicant must show evidence, based on previous training, of scholastic ability and other qualifications necessary for successful progress in graduate study, field study, and professional work. The Committee on Professional Degrees of the School of Education is responsible for action on admissions.

Residence. In fulfillment of the requirements for the Ed.D. degree, a minimum of five units of residence is required beyond the Bachelor's

degree, of which at least three units must be earned in residence at Cornell. Two units of residence beyond the Master's degree or its equivalent must be earned at Cornell in regular terms, consecutive except on petition. Any remaining residence units may be earned in regular terms, in summer sessions, extramurally, or, in the instance of graduate assistants, by registration for Summer Research.

All requirements for the degree must be completed within four years after the minimum residence requirement has been satisfied.

In addition to meeting residence requirements, a candidate must complete successfully one year of participation in directed field study as described in subsequent statements.

Supervising Committee. A candidate must select a Committee of at least three members from the Graduate Faculty, one of whom will serve as chairman and will represent the candidate's field of professional service. Other members of the Committee are to be selected, with the advice of the chairman, to give adequate representation of the candidate's program. All members of the Committee shall approve the candidate's program.

Program of Studies. Within a period of two weeks after registration for the first unit of residence, the candidate shall meet with his entire committee to plan a program of studies. The program, designed to develop competence in a field of professional service and in the general field of education, must include a minimum of sixty-five credit hours in courses and seminars beyond the Bachelor's degree, of which thirty-five hours shall be completed beyond the Master's degree or its equivalent.

The candidate will be expected to prepare himself in courses and seminars representing a field of professional service. Fields are described in terms of professional positions for which preparation is offered. Approved fields of professional service for the Ed.D. degree are as follows: Administrator, Coordinator, Curriculum Specialist, Extension Specialist, Student Service Specialist, Supervisor, Teacher.

The program of studies must include advanced courses or seminars in each of these subjects: educational psychology, history and philosophy of education, measurement, research in education, statistics. At least fifteen hours of credit must be earned in courses other than those in professional education.

The transfer of credit in institutions other than Cornell University must be approved by the Supervising Committee and by the Committee on Professional Degrees.

Directed Field Study. For the Ed.D. degree a minimum of one year of full-time experience appropriate to the field of professional service is required. This period of participation, to be known as directed field study,

will follow completion of a minimum of two units of residence beyond the Master's degree or its equivalent.

In advance of the period of field study the candidate will plan, with his Committee and with his employer or supervisor, for the kind and extent of experience to be obtained and studied during the field study period and for the manner in which the experience will be obtained, reported, and evaluated.

Direction and evaluation of the field study shall be the responsibility of the Supervising Committee under the general supervision of the Committee on Professional Degrees. The candidate and the employer or supervisor shall be invited to share in the evaluation.

The Supervising Committee and the Committee on Professional Degrees require a satisfactory comprehensive written evaluation of the experience. Successful completion of the field study is prerequisite to recommendation of the candidate for the degree.

Thesis. For the Ed.D. degree the candidate is required to present a thesis which will give evidence of the ability to apply knowledge to a professional problem. The thesis must satisfy the Supervising Committee in respect to both professional proficiency and literary quality. Regulations concerning preparation and publication of theses shall be determined by the Committee on Professional Degrees. Two copies of the thesis, suitably bound, must be filed in the School of Education.

Diagnostic Examination. A candidate for this degree must take a written diagnostic examination prepared and administered by the School of Education. The examination, to be taken within one week after registration for the first unit of residence, shall be designed to appraise the candidate's ability to read and interpret educational literature, to understand educational problems, and to demonstrate proficiency in communication of ideas. The Supervising Committee shall use examination results as a guide in planning with him a program of studies.

Intermediate Examination. A candidate for the Ed.D. degree must pass an intermediate examination given by his Committee. The examination, to be both written and oral, will be given before or immediately following completion of four units of residence.

Final Examination. For the Ed.D. degree a candidate must pass a final examination conducted by his Committee. The examination, to be written or oral or both, shall be prepared with the assistance of the Committee on Professional Degrees, and shall cover (1) the field of professional service, (2) core studies in education, and (3) the thesis. At least one member of the committee on Professional Degrees shall attend the examination.

#### NONPROFESSIONAL DEGREES

#### MASTER'S

Students with appropriate qualifications who are primarily interested in scholarly research may apply to the Graduate School for admission to candidacy for the degrees of Master of Arts, Master of Science, or Doctor of Philosophy. Requirements for these degrees are fully described in the Announcement of the Graduate School.

All candidates for the general degrees, Master of Arts, Master of Science, or Doctor of Philosophy, must register both in the Graduate School and with the Registrar of the University at the beginning of each term or session.

#### DOCTOR OF PHILOSOPHY

A candidate for the Ph.D. degree works under the direction of a Special Committee composed of three members of the Faculty. Programs for Ph.D. candidates are arranged and approved by the Special Committee in accordance with the following general requirements for the Ph.D. degree:

1. A minimum of six terms of residence as a graduate student.

2. The satisfactory completion, under the direction of a Special Committee, of work in one major subject and two minor subjects.

3. Certain requirements in foreign language.4. The presentation of an acceptable thesis.

5. The passing of a qualifying examination and a final examination.

The candidate is advised to consult the *Announcement of the Graduate School* for further details concerning the requirements for the above degrees.

#### RESIDENT DOCTORS

Persons who hold the Doctor's degree or who have equivalent standing may, subject to permission from the Dean, be admitted to the Graduate School as Resident Doctors, for the purpose of engaging in advanced study and research in a field in which they have had adequate previous preparation. On the recommendation of the Dean, Resident Doctors are exempt from the payment of tuition and all fees except laboratory charges. Resident Doctors ordinarily are not permitted to attend classes.

#### NONCANDIDATES

Students admitted to the Graduate School usually pursue a course leading to one of the advanced degrees; but a properly qualified person who, for special reasons, does not wish to meet the requirements for a

degree, may be admitted to the Graduate School as a noncandidate and arrange a program of graduate study suitable to his purposes. For further information, consult the *Announcement of the Graduate School*.

# TUITION AND FEES FOR GRADUATE STUDENTS

A tuition fee of \$150 a term is to be paid by all students registered in the Graduate School with major concentration in subjects within the state-supported colleges of the University; all others must pay a fee of \$350 a term. This fee is payable at the beginning of each term.

Certain classes of students are exempt from the payment of the tuition

fee. They are:

1. Graduate students holding certain appointments as University Fellows or Graduate Scholars, and holders of certain temporary fellowships and scholarships.

2. Resident Doctors, upon the recommendation of the Dean.

3. In addition to students exempt under the charter of the University from the payment of tuition the following, to the extent herein men-

tioned, shall also be exempt from such payments of fees:

Upon recommendation by the appropriate college dean and by action of the Board of Trustees, for each appointment, waiver of tuition in the Graduate School, and of laboratory and shop fees in the department or line of work in which he is employed, may be made to a member of the teaching or scientific staff subject to the following limitations:

(a) if the salary for the academic year is not greater than \$1,600, the

tuition fee may be waived entirely;

(b) if the salary is greater than \$1,600, but not greater than \$1,700, 25% of the tuition will be charged and 75% waived;

(c) if the salary is greater than \$1,700 but not greater than \$1,800,

50% of the tuition will be charged and the balance waived;

(d) if the salary is greater than \$1,800 but not greater than \$1,900, 75% of the tuition will be charged and the balance waived;

(e) if the salary is greater than \$1,900 no waiver will be made.

The word salary as used above means total pay, that is, base pay plus any bonus.

Graduate assistants on the nine or twelve months' basis who are located here during the summer, who are registered under personal direction for credit in the Graduate School, and who are required to give service in their department or college during that period, may be recommended for waiver of tuition during the Summer Session also under the above limitations. Those who are engaged only in graduate study and not doing productive work for the department during the summer may not have their tuition waived. The amount of tuition to which the above percentages will be applied is the prorated amount of the full tuition fee based upon the maximum amount of residence credit that can be earned.

Registration Deposit. A deposit of \$30 must be made by every applicant for admission after the applicant has received provisional notice of acceptance, unless the candidate has previously matriculated as a student at Cornell University. Of this deposit \$18 is used to pay the matriculation fee, chest X-ray, and examination blank charge; the \$12 balance is a guaranty fund that must be maintained with the Treasurer until the student graduates or permanently withdraws.

A College and University Fee of \$60 a term, payable at the beginning of each term, is required of all students registered in the Graduate School except Honorary Fellows and Resident Doctors. This general fee contributes toward the services supplied by the Libraries, Clinic and Infirmary, and the student union in Willard Straight Hall and pays a portion of the extra costs of laboratory courses and general administration.

A graduate student who returns to the University to present his thesis and to take the final examination for an advanced degree, all other work for that degree having been previously completed, shall register as a "candidate for degree only" and shall pay only an administration fee of \$27.

Any tuition or other fee may be changed by the Board of Trustees to take effect at any time without previous notice.

# GRADUATE FELLOWSHIPS, SCHOLARSHIPS, AND ASSISTANTSHIPS

Financial assistance to students in the various phases of the work of the School of Education is available as indicated below. These aids are granted only to students matriculated in the Graduate School, who, in addition to adequate preparation in general subjects, in an appropriate special field, and in education, have had a sufficient amount of successful teaching or other professional experience to warrant seeking further preparation for educational leadership. Experience is not required of candidates for the assistantship listed under (5) below.

Free tuition in the Graduate School may be given in addition to the

cash awards, except as indicated (see Fees).

The amount and character of the service required of the holder of an assistantship varies, but additional information on this point may be secured upon request.

# (1) RURAL EDUCATION

(a) One \$1,600 research assistantship is available to a person desiring to prepare for professional service in some field for which the Department of Rural Education offers preparation, for example, administration, agricultural education, educational psychology, elementary education, guidance, nature study and science education, philosophy of education, secondary education, supervision. A well-planned project in research must

be submitted. Normally this assistantship will be granted only to a candidate for the doctorate who is within approximately one year of completing the requirements for that degree (including a reading knowledge of two foreign languages, preferably French and German.)

- (b) One \$1,400 and one \$1,000 research assistantship open to candidates for a Ph.D. degree who are available for assistance in a research project being carried on in some field for which the Department of Rural Education offers preparation.
- (c) One \$1,400 assistantship open to qualified candidates for a Ph.D. in educational psychology who are capable of assisting with the instruction in the introductory psychology courses.
- (d) Three \$1,200 assistantships available in agricultural education normally only to those who are candidates for the doctorate. It is essential that the candidates shall have had satisfactory teaching experience in vocational agriculture. In addition, teacher training or supervisory experience in agricultural education is considered desirable.
- (e) One \$1,800 research fellowship provided by the Coke Oven Ammonia Research Bureau, Inc., for the development of more effective methods of presenting research data to students of agriculture in New York State. Available to advanced students in agricultural education.

# (2) NATURE STUDY AND SCIENCE EDUCATION

- (a) Two or three American Nature Association research fellowships of \$400 to \$600. Free tuition is not included.
- (b) Two \$150 scholarships given by the late Anna Botsford Comstock and available to graduate students in nature study.
- (c) One \$1,000 assistantship available to a person of experience preparing for a leadership position in the teaching of science.

# (3) INDUSTRIAL EDUCATION

A number of assistantships are available in this field. Persons interested should apply to Professor John W. McConnell, School of Industrial and Labor Relations.

# (4) Home economics education

(a) An assistantship to help with details in connection with undergraduate courses, such aid to include preparation of teaching materials, making arrangements for field trips, and assisting in classroom situations. The stipend is \$1,333. Candidates having home economics teaching experience and showing promise of leadership in the field of home economics education are given preference. This is a part-time appointment.

- (b) An assistantship to help with details in connection with the graduate program, such aid to include preparation of teaching materials, abstracting articles and studies to be used by graduate students, and participation in some classroom responsibilities. The stipend is \$1,333. Candidates should have experience in teaching home economics and should be preparing for a position of leadership in home economics education. This is a part-time appointment.
- (c) An assistantship to serve as adviser in one of the Home Management Apartments. Such work includes living in the apartment for two semesters, serving as part-time adviser to resident students, and helping with other details in connection with the apartment courses. The stipend is \$1,000, living quarters, and some meals. A well-rounded undergraduate background in home economics is required. Some work toward a Master's or Doctor's degree is desirable. Directed by Assistant Professor Carolyn H. Crawford.
- (d) A research assistantship in connection with research studies in home economics education. The stipend is \$1,599 for the regular year. Candidates should have held a position of leadership in home economics education and should have a Master's degree. Preference will be given to candidates who have undertaken post-Master's study, who are working for a doctorate, and who have had experience in research. This is a part-time appointment requiring 20 hours a week. Directed by the Graduate staff. Persons interested should apply to the Secretary of the College of Home Economics, Martha Van Rensselaer Hall.

# (5) TEACHER TRAINING PROGRAM

(a) One assistantship is available which provides an income of \$1,725 for the academic year.

# (6) SECONDARY SCHOOL TEACHERS IN TRAINING

Free tuition scholarships are available to students in the fifth year of the five-year program who give promise of becoming outstanding secondary school teachers in any of the following fields: agriculture, art, English, foreign language, home economics, mathematics, science, social studies. Some of these scholarships are available to students who have received their undergraduate preparation in institutions other than Cornell.

# (7) EDWARD A. SHELDON SCHOLARSHIP FOR WOMEN TEACHERS

This scholarship may be awarded "to any woman of suitable qualifications who needs this assistance," preference being given candidates in the following order: first, a woman graduate of the State Teachers College at Oswego, New York; second, a woman graduate of any other New York

State Teachers College; third, a suitably qualified woman who is preparing to teach. The funds available will be apportioned among qualified applicants, usually not exceeding \$250 for any one scholarship. Free tuition is not included.

### (8) STUDENT DEAN SCHOLARSHIPS

The scholarships are designed for graduate students interested in student personnel administration. Appointees are given professional responsibilities within the personnel program which constitute the laboratory aspects of the course. Students major in guidance and personnel administration or in related fields. They receive a scholarship consisting of room and board plus an honorarium. The honorarium ranges from \$50 to \$400 a year, depending on the program of the individual student. Applications should be made to Assistant Professor Peard, Edmund Ezra Day Hall.

### (9) FORD FOUNDATION FELLOWSHIPS

Fourteen fellowships of \$1,800 each are available to students who meet the requirements for the Experimental Program in Elementary Teacher Education (see page 43).

#### GRADUATE PROGRAMS OF PROFESSIONAL PREPARATION

#### FIELDS OF STUDY FOR GRADUATE STUDENTS

To meet the requirements of the Graduate School, candidates for advanced degrees must select a major or minor field of work or a field of concentration. Approved fields for majors in the School of Education are as follows:

Agricultural Education
Curriculum
Educational Administration
Educational and Mental Measurement\*
Educational Psychology
Extension Education
Guidance and Personnel Administration
History of Education\*
Home Economics Education

Industrial Education
Nature Study and Conservation Education
Rural Education†
Science and Conservation Education
Secondary Education
Social Studies Education
Supervision
Theory and Philosophy of Education

In general, candidates for higher degrees in education are encouraged to take one minor outside the field of education.

<sup>\*</sup>For a Master's degree only.

<sup>†</sup>For a Doctor's degree only.

# DESCRIPTION OF COURSES

#### ADMINISTRATION AND SUPERVISION

[R.E. 241. THE PREPARATION OF TEACHERS FOR NORMAL SCHOOLS AND COLLEGES. Spring term. Credit two hours. Professor Moore. Not given in 1953-54.]

R.E. 243. PROCEDURES AND TECHNIQUES IN SUPERVISION. Fall term. Credit three hours. Candidates for a principal's certificate may register for two hours credit. M W F 10. Stone. Professor Moore.

Designed for superintendents, supervisors, and principals. Students taking this course must be prepared to spend four full days or more in observing supervisory procedures in various school systems.

- R.E. 245. SEMINAR FOR PRINCIPALS. Fall term. Credit two hours. Required of all graduate students who are candidates for a principal's certificate. S 9-10. Stone. Professor Moore.
- [R.E. 246. THE SUPERVISION OF THE ELEMENTARY SCHOOL. Spring term. Credit three hours. Candidates for a principal's certificate may register for two hours credit. Professor Moore. Not given in 1953-54.]
- R.E. 247. SEMINAR IN ELEMENTARY EDUCATION. Spring term. Credit two hours. S 9-10:40. Stone. Professor Moore.
- R.E. 261. FUNDAMENTALS OF EDUCATIONAL ADMINISTRATION. Fall term. Credit three hours. T Th 11-12:30. Stone. Associate Professor Elliott. An introduction to the study of administration with special application to the educational program. Both the science and the art of administration are examined.
- R.E. 262. THE SECONDARY SCHOOL PRINCIPALSHIP. Fall term. Credit two hours. S 10:40-12:15. Warren 201. Associate Professor Elliott.

A course in school administration dealing with the responsibilities of the secondary school principal within the school building. Special attention will be given to the problems of the six-year high school.

- [R.E. 263. THE PRINCIPALSHIP OF THE ELEMENTARY SCHOOL. Credit two hours. Professor Moore. Not given in 1953-54.]
- R.E. 264. SCHOOL FINANCE. Fall term. Credit two hours. Prerequisite, 261 or the equivalent. Th 4:15-5:45. Stone. Associate Professor Elliott.

Typical problems: how local school funds are levied, collected, and disbursed; budget making; bonding; sources of state funds and their distribution.

- [R.E. 265. THE SCHOOL PLANT. Spring term. Credit two hours. Prerequisite, Course 261 or equivalent. S 11-12:30. Not given in 1953-54.]
- [R.E. 267. THE LEGAL PROBLEMS OF THE SCHOOL ADMINISTRATOR. Credit two hours. ———. Not given in 1953-54.]
- R.E. 268. SEMINAR IN EDUCATIONAL ADMINISTRATION. Spring term. Credit two hours. M 4-5:30. Stone. Associate Professor Elliott.

#### ADULT AND HIGHER EDUCATION

R.E. 214. COLLEGE TEACHING. Fall term. Credit two hours. M 7-9 p.m. Warren 145. Associate Professor Elliott and others.

Designed for non-Education majors who plan to teach in higher institutions. Methods of teaching, organization of subject matter, motivation, learning, testing, grading, and similar problems will be treated.

[R.E. 293. ADMINISTRATION AND SUPERVISION OF ADULT EDUCA-TION. Credit two hours. Professor Hoskins. Not given in 1953-54.]

[R.E. 401. PROBLEMS IN HIGHER EDUCATION. Spring term. Credit two hours. Not given in 1953-54.]

[H.E. Ed. 432. METHODS AND MATERIALS IN ADULT EDUCATION. Credit two hours. Associate Professor Patterson. Not given in 1953-54.]

H.E. Ed. 437. PRINCIPLES AND PHILOSOPHY OF ADULT EDUCA-TION.\* Fall term. Credit two or three hours, M 4-5:30. Martha Van Rensselaer Room 124. Open to undergraduates with permission. Associate Professor Patter-

This course is designed for directors of adult education, teachers, extension agents, school administrators, and other leaders in adult education. Attention is focused on a philosophy of adult education and the principles as they relate to the place of adult education in the total program, adult needs, program planning, adult learning, and the growth and development of adult education. A wide variety of adult education activities in the Ithaca area provides opportunities for students to study the application of principles to local programs.

[H.E. Ed. 490. TEACHING HOME ECONOMICS IN HIGHER EDUCA-TION. Credit two hours. Associate Professor Patterson. Not offered in 1953-54.]

See also the following courses: R.E. 134, R.E. 224, R.E. 234, R.E. 291, R.E. 298, H.E. 438.

#### AGRICULTURAL EDUCATION

R.E. 131. INTRODUCTION TO TEACHING VOCATIONAL AGRICUL-TURE. Spring term, Credit one hour (part of the ten-hour unit). Required of juniors and others entering the directed teaching program in the senior or following year. M 2-4:30. Warren 160. Staff in agricultural education.

A seminar type of course, with observations in near-by departments of agriculture, in orientation, preparation, and selection of the trainee for directed teaching

in off-campus cooperating school centers.

R.E. 132. METHODS, MATERIALS, AND DIRECTED PRACTICE IN VO-CATIONAL AGRICULTURE IN THE SECONDARY SCHOOL. Fall term. Credit nine hours. STAFF in agricultural education.

Directed participation in off-campus centers in the specific and related problems of teaching prevocational and vocational agriculture on the junior and senior high school levels.

R.E. 133. SPECIAL PROBLEMS IN VOCATIONAL AGRICULTURE. Spring term. Credit as arranged. STAFF in agricultural education.

Selected problems in vocational agriculture to meet particular needs of prospective teachers.

R.E. 134. THE ORGANIZATION AND DIRECTION OF YOUNG FARM-ER GROUPS. Fall term. Credit three hours. Professor Hoskins and Staff in agricultural education.

<sup>\*</sup>Given in alternate years as H.E. Ed. 437 and R.E. 294.

Directed participation in off-campus centers in problems that serve the needs of young men on farms. The planning of local programs; the evaluation of the qualifications and opportunities of young men for placement and progressive establishment in farming or in the related-farm occupations; and the training for leadership in other youth and adult organizations.

- R.E. 230. SEMINAR IN AGRICULTURAL EDUCATION. Spring term. Credit two hours. For students whose progress in graduate study is satisfactory. T 7-9 p.m. Stone. Staff in agricultural education.
- R.E. 231. SUPERVISION IN VOCATIONAL AGRICULTURE. Spring term. Credit two hours. Open to students with experience in teaching vocational agriculture, or by permission. M 4:15-6. Associate Professor Smith.

R.E. 232. METHODS OF INSTRUCTION IN VOCATIONAL AGRICULTURE. Spring term. Credit two hours. Open to students with experience in teaching vocational agriculture. M 7-9 p.m. Stone. Assistant Professor Kunsela.

Consideration will be given to the selection of units of instruction, developing specific teaching objectives, analysis of farming problems, selection of teacher-pupil activities, and the evaluation of learning experience as applied to individual and group instruction.

R.E. 233. SUPERVISED FARMING PROGRAMS IN VOCATIONAL AGRICULTURE. Fall term. Credit two hours, M 7-9 p.m. Dr. NOAKES.

The basic concepts in planning and using supervised farming programs. Field studies of programs in near-by schools.

R.E. 234. EDUCATION FOR LEADERSHIP OF FARM YOUTH AND ADULT GROUPS. Fall term. Credit two or three hours. F 4:15-6. Stone 309. Professor Hoskins.

Designed for leaders in the fields of agricultural education who are responsible for organizing programs. A consideration of objectives and trends in part-time education and in social-economic problems in rural areas.

- [R.E. 235. THE PREPARATION OF TEACHERS IN VOCATIONAL AGRICULTURE. Fall term. Credit two or three hours. Associate Professor Smith. Not given in 1953-54.]
- [R.E. 236. THE ORGANIZATION AND ADMINISTRATION OF VOCATIONAL AGRICULTURE IN THE SECONDARY SCHOOL. Spring term. Credit two or three hours. Professor Hoskins. Not given in 1953-54.]
- R.E. 237. PLANNING COURSES OF STUDY AND PROGRAMS OF WORK FOR VOCATIONAL EDUCATION IN AGRICULTURE. Spring term. Credit three hours. Registration by permission. Warren 160. Dr. NOAKES.

The development of basic and individualized courses of study and comprehensive programs of work. An evaluation of the effectiveness of vocational education in agriculture in selected high school departments to determine patterns for course building and program planning.

- [R.E. 238. MATERIALS OF INSTRUCTION IN VOCATIONAL AGRI-CULTURE. Fall term. Credit two hours. Open to students with experience in teaching vocational agriculture. Assistant Professor Kunsela. Not given in 1953-54.]
- [R.E. 239. PREVOCATIONAL AGRICULTURE IN THE SECONDARY SCHOOL. Spring term. Credit two hours. Associate Professor Smith. Not given in 1953-54.]

# CURRICULUM AND SECONDARY EDUCATION

Ed. 130. THE ART OF TEACHING. Fall term: credit five hours; T Th 11 and other hours to be arranged. Spring term: credit five hours; M 4-5:30 and other hours to be arranged. ————, Miss DePew, Assistant Professor Eckert,

Miss Klee, Mrs. Ocvirk, Mr. Catalfano.

For seniors preparing to teach mathematics, English, social studies, science, languages, or art in the secondary schools. A study of general principles of teaching and of special methods of teaching each of these subjects. Opportunities to observe the work of experienced teachers and to do directed teaching in a secondary school.

R.E. 276. PRINCIPLES OF CURRICULUM BUILDING. Fall term. Credit two or three hours. W 4-6 and one hour to be arranged for those enrolled for three hours credit. Warren 201. Associate Professor Stutz.

A consideration of major problems, principles, and techniques in determining the school curriculum. Students who enroll for curriculum work in a special field

may take this course for two hours credit.

- [R.E. 277. SEMINAR IN CURRICULUM. Spring term. Credit two hours. Prerequisite, R. E. 276 or equivalent. Associate Professor Stutz. Not given in 1953-54.]
- [R.E. 278. SEMINAR IN SECONDARY EDUCATION. Spring term. Credit two hours. Associate Professor Stutz. Not given in 1953-54.]
- R.E. 290. SECONDARY EDUCATION. Fall term. Credit three hours. T Th S 9. Stone. Associate Professor Stutz.

A study of the nature, function, organization, curriculum, and extension of secondary education in its adaptations to present-day needs and conditions.

R.E. 292. SEMINAR IN SOCIAL STUDIES EDUCATION. Fall term. Credit as arranged. T 4:15. Associate Professor Stutz.

A course designed for resident or extramural students who are working on special problems in social studies education.

#### EDUCATIONAL PSYCHOLOGY

R.E. 10. PSYCHOLOGY. Fall or spring term. Credit three hours. M W 10 and one hour to be arranged. Plant Science 233. Assistant Professor Ahmann.

Designed for students who are not preparing to teach. Should not be taken by students planning to take R.E. 111. Consideration of the outstanding psychological concepts that bear upon personal problems and upon business and social relationships.

R.E. 111. EDUCATIONAL PSYCHOLOGY. Fall or spring term. Credit three hours. Prerequisite, Human Development. Not open to freshmen. Lectures, M W F 9. Warren 325. Professor Glock. (Same as Psych. 103.)

Consideration of the outstanding facts and principles of psychology bearing upon classroom problems.

R.E. 117. PSYCHOLOGY OF ADOLESCENCE. Spring term. Credit three. hours. Prerequisite, a course in elementary or educational psychology. M W F 11. Warren 145. Associate Professor Elliott.

A study of behavior during adolescence, of tasks involved in developing ma-

turity, and of the effects on development of some social conditions.

R.E. 211. EDUCATIONAL PSYCHOLOGY. Fall term. Credit three hours. M F 11-12:20. Stone. Professor Glock.

For mature students with teaching experience. Special emphasis will be given to the topics of learning, adjustment, and evaluation, and their relationship to the teacher's problems.

- [R.E. 213. SEMINAR IN EDUCATIONAL PSYCHOLOGY. Fall term. Credit two hours. To be alternated with R. E. 299. Assistant Professor Ahmann. Not given in 1953-54.]
- [R.E. 218. SEMINAR IN EDUCATIONAL PSYCHOLOGY. Spring term. Credit two hours. Professor Glock. Not given in 1953-54.]
- R.E. 219. SEMINAR IN PERSONNEL ADMINISTRATION IN EDUCATIONAL INSTITUTIONS. Spring term. Credit two hours. Open to graduate students in education. Th 4-6. Warren 201. Professor Winsor.

A study of the problems of human relations in educational institutions. The methods and principles of recruitment, selection, placement, maintenance, organization, and government of staff and employees are analyzed.

- [R.E. 251. EDUCATIONAL MEASUREMENT. Spring term. Credit three hours. Candidates for a principal's certificate may register for two hours' credit. To be alternated with R.E. 256. Assistant Professor Ahmann. Not given in 1953-54.]
- R.E. 253. INTRODUCTION TO EDUCATIONAL STATISTICS. Fall term. Credit three hours. T Th 9-10:30. Warren 345. Assistant Professor Ahmann.

A study of common statistical procedures encountered in educational literature and research. The course includes the computation and interpretation of descriptive measures and tests of significance.

R.E. 254. STATISTICAL INSTRUMENTS IN EDUCATION. Spring term. Credit two hours. Prerequisite, R.E. 253 or permission of instructor. T Th 9. Warren 345. Assistant Professor Ahmann.

A study of the analysis of variance, the analysis of covariance, the discriminant function, test item analysis, and supporting topics.

R.E. 255. USE AND INTERPRETATION OF TESTS IN GUIDANCE AND PERSONNEL ADMINISTRATION. Fall term. Credit two hours. Open to students in guidance or personnel administration. Th 4-6. Stone. Assistant Professor Andrus.

This course deals with the development, use, and interpretation of aptitude tests as a basis for guidance and selection.

R.E. 256. ACHIEVEMENT TEST CONSTRUCTION AND ANALYSIS. Spring term. Credit two hours. Prerequisite, R.E. 253 and a course in educational measurement, or permission of instructor. To be alternated with R.E. 251. T Th 10. Warren 345. Assistant Professor Ahmann.

A study of the theory and construction of achievement tests. Item analysis will also be stressed.

Ed. 313. METHODS OF TEACHING READING. Either term. Credit three hours. Time and place to be arranged. ———.

Designed for teachers, supervisors, and administrators in the elementary school. The basis for the improvement of reading instruction. Appraisal of teaching practices and instructional materials; group testing programs and individual diagnostic procedures; remedial and corrective reading techniques.

R.E. 315. READING IN THE SECONDARY SCHOOL. Spring term. Credit

two hours, M-4-5:30. Warren 31. Professor GLOCK.

A course which purposes to aid those interested in secondary education in the location of reading problems, in the determination of causes of reading difficulty, and in the organization of developmental and remedial programs.

[R.E. 316. READING CLINIC. Prerequisite, R.E. 315. Professor GLOCK. Not given in 1953-54.]

# EXPERIMENTAL PROGRAM IN ELEMENTARY TEACHER EDUCATION

Ed. 248. OBSERVATION AND STUDENT TEACHING. Fall and spring

terms. Credit ten hours each term. Professors Kulp, Klee, and Staff.

Internship program of the Cornell experiment in the education of elementary teachers. Minimum of fifteen clock hours each week devoted to directed observations of and gradual induction into classroom teaching in elementary schools in Ithaca and surrounding communities. This internship phase of the program is closely coordinated with Ed. 249.

Ed. 249. SEMINAR IN ELEMENTARY TEACHER EDUCATION. Credit

six hours. Professors Kulp, Klee, and Staff.

Problems identified by the students in the internship phase of the Cornell experimental program in the education of elementary teachers will become focal points of discussion in the seminar. Essential understandings from the fields of Human Development, Curriculum Planning, History and Philosophy of Education, and Methods of Learning will be developed in relation to specific problem situations identified by the students in Ed. 248. Planned to meet certification requirements of the New York State Education Department.

# EXTENSION EDUCATION

R.E. 223. SEMINAR IN EXTENSION EDUCATION. Throughout the year. Credit two hours each term. W 2-3:30. Warren 260. Open to graduate students in extension education and others interested in extension education. Professor Leagans.

Provides opportunity for special study of individual problems, for group study of common problems, and for exchange of experiences among workers from var-

ious states and countries.

R.E. 224. PROGRAM BUILDING IN EXTENSION EDUCATION. Fall term. Credit two hours. T 2-3:30. Warren 160. For graduate students in extension education and others interested in adult education. Professor Leagans.

A study of the basic problems, principles, and procedures in the process of extension program building in both agriculture and homemaking.

R.E. 225. TEACHING IN EXTENSION EDUCATION. Spring term. Credit two hours. T 2-3:30. Warren 260. For graduate students in extension education and others concerned with teaching adults. Professor Leagans.

The course deals with the principles of teaching and learning and their application in extension teaching. Major problems, including the formulation of learning situations, selection and organization of learning experiences, selection and use of extension methods, and evaluation of teaching, are considered.

R.E. 291. SEMINAR IN THE DEVELOPMENT AND EXECUTION OF EDUCATIONAL PROGRAMS IN UNDERDEVELOPED AREAS OR COMMUNITIES. Fall term. Credit two hours. Th 2-3:30. Stone. Professor Leagans.

Designed for teachers, extension workers, missionaries, government workers, and others who expect to do educational work in underdeveloped areas of the free world. Analysis is made of the cultural, social, educational, and economic factors in selected areas as background for forming program development and teaching procedures.

[R.E. 298. RURAL EDUCATIONAL LEADERSHIP. Spring term. Credit two hours. For graduates and advanced undergraduates. Especially appropriate for public school teachers, school principals, social workers, agriculture and home economics workers, and directors of adult education. Professor Leagans. Not given in 1953-54.]

Courses that offer additional basic work in this field are: Rural Education 211, 219, 243, 244, 296, 299. Home Economics 348, 361, 415, 430, 437, 440, 459. Rural Sociology 105, 132, 212, 218. Agricultural Economics 102, 140, 181, 236, 251.

Extensive flexibility is permitted students in the selection of a course program to meet special interests and professional needs.

R.E. 190. SOCIAL FOUNDATION OF EDUCATION. Fall or spring term. Credit three hours. Must be approved by the instructor in charge. Fall term: M W F 9; spring term: M W F 11. Warren 125. Professor Moore.

Evaluation of the school as a social institution and emphasis upon the role the

school must play in a democratic society.

R.E. 194. PRINCIPLES OF VOCATIONAL EDUCATION. Spring term. Credit two hours. Open to graduate students and others who have permission to register. T 4:15-6. Warren 160. Associate Professor Sмітн.

R.E. 199. INFORMAL STUDY IN EDUCATION. Maximum credit, three hours each term. Members of the STAFF.

This privilege is granted to a qualified student of junior rank or above, when approved by his adviser from the education staff who is personally responsible for the study.

R.E. 299. EDUCATIONAL RESEARCH METHODS. Fall term. Credit two hours. For graduate students preparing for or engaged in research in education. To be alternated with R.E. 213. M W 11. Warren 345. Assistant Professor Ahmann. Consideration of the basic research methods as applied to education and the principles of thesis writing.

R.E. 300. SPECIAL STUDIES. Credit as arranged. Members of the Staff. Students working on theses or other research projects may register for this course. The staff members concerned must be consulted before registration.

R.E. 400. INTERNSHIP IN EDUCATION. Fall and spring terms. Credit two to six hours as arranged. Members of the FACULTY.

Opportunity for apprentice or similar practical experience on the graduate level in administration, agricultural education, guidance, personnel administration, supervision, and other types of professional service in education.

Ed. 402. FIELD LABORATORY IN STUDENT PERSONNEL ADMINIS-TRATION. Throughout the year. Prerequisite, consent of the instructor. Credit and hours to be arranged. Assistant Professor Peard.

Ed. 499. INFORMAL STUDY IN EDUCATION. Maximum credit three hours each term. Members of the STAFF.

Ed. 500. SPECIAL STUDIES. Credit as arranged. Members of the STAFF. Students working on theses or other research projects may register for this course. The staff members concerned must be consulted before registration.

#### GUIDANCE AND PERSONNEL ADMINISTRATION

Ed. 280. INTRODUCTION TO STUDENT PERSONNEL ADMINISTRATION. Fall term. Prerequisite, consent of the instructor. Credit two hours. T 10-12. Conference Room, Day. Assistant Professor Peard.

Development of the personnel point of view, relation of out-of-class life to the

total education of the student in higher education.

Ed. 281. ADMINISTRATION OF STUDENT PERSONNEL SERVICES. Spring term. Prerequisite, consent of the instructor. Credit two hours. T 10-12. Conference Room, Day. Assistant Professor Peard and Staff.

Organization and function of student personnel services in higher education.

R.E. 282. EDUCATIONAL AND VOCATIONAL GUIDANCE. Fall term. Credit two hours. For graduate students only. S 9-11. Warren 145. Associate Professor Nelson.

Principles and practices of educational and vocational guidance. Historical and theoretical background of the guidance movement; educational, vocational, and community information needed; the study of the individual; group methods; counseling; placement and follow-up; and the organization, administration, and appraisal of guidance programs.

R.E. 283. COUNSELING METHODS. Spring term. Credit two hours. For graduate students only. Prerequisite, Courses 255 and 282 or equivalent. T 2-4. Warren 201. Associate Professor Nelson.

Techniques for counseling with individuals concerning various types of educational, social, and vocational adjustment problems. Case studies.

R.E. 284. GROUP TECHNIQUES IN GUIDANCE. Spring term. Credit two hours. S 9-11. Warren 260. Associate Professor Nelson.

Methods and materials for presenting occupational and orientation information to students. Deals with classes in occupations, orientation groups, field trips, clubs, work-experience programs, and other group methods.

R.E. 285. OCCUPATIONAL AND EDUCATIONAL INFORMATION. Fall term. Credit four hours. T Th 1. Field trips on Monday afternoons. Stone 309. Associate Professor Nelson.

Survey and appraisal of occupations and training opportunities; study of sources of educational and vocational information; job analysis; vocational trends. Field trips to places of employment.

R.E. 289. SUPERVISED PRACTICE IN TESTING AND COUNSELING. Spring term. Credit to be arranged. Prerequisites, 255, 282, 283, or their equivalents, and the permission of the instructor. For advanced graduate students only. Hours for observation and practice to be arranged. W 5. Associate Professor Nelson.

Practice in the administration, scoring, and interpretation of psychological tests. Observation and supervised experience in counseling at the Cornell Guidance Center. Case conferences and assigned readings.

Ed. 380. ADMINISTRATION OF EXTRACURRICULAR ACTIVITIES. Fall term. Prerequisite, consent of the instructor. Credit two hours. T 2-4. Conference of the confer

ference room, Day. Dean BALDWIN, Professor BROOKS, and STAFF.

Theory and philosophy of extracurricular activities in higher education, application of principles of leadership; campus clubs, student unions, student government.

Ed. 381. SEMINAR IN STUDENT PERSONNEL ADMINISTRATION. Spring term. Prerequisite, consent of the instructor. Credit two hours. T 2-4. Conference room, Day. Professor Brooks.

Trends in higher education, relation of personnel office to other offices and

agencies, the field of personnel.

#### HISTORY AND PHILOSOPHY OF EDUCATION

- R.E. 244. PHILOSOPHY OF EDUCATION. Spring term. Credit two hours. For mature students, preferably with teaching experience. W 4. Professor Moore.
- [R.E. 296. HISTORY OF AMERICAN EDUCATION. Fall term. Credit three hours. For seniors and graduate students. Prerequisite, consent of the instructor. T Th S 9. Associate Professor Stutz. Not given in 1953-54.]
- [R.E. 297. HISTORY OF EDUCATION IN THE MODERN PERIOD. Fall term. Credit three hours. Associate Professor Stutz. Not given in 1953-54.]

#### NATURE STUDY, SCIENCE, AND CONSERVATION EDUCATION

- [R.E. 106. OUTDOOR LIVING AND CAMP ADMINISTRATION. Fall term. Credit three hours. Registration by permission of instructors only. Assistant Professor Eckert and Dr. Noakes. Not given in 1953-54.]
- R.E. 107. THE TEACHING OF NATURE STUDY AND ELEMENTARY SCHOOL SCIENCE. Spring term. Credit two hours. Open to juniors, seniors, and graduate students, particularly those who are preparing to teach or supervise nature study or science. Lecture, S 8. Practical exercises, S 9-11:30. Fernow 8. Associate Professor Gordon.

The content and methods of nature-study and elementary-school science with field work and laboratory experience useful in classroom and camp.

R.E. 108. FIELD NATURAL HISTORY. Fall or spring term. Credit two hours a term. Open to juniors, seniors, and graduate students, and to sophomores by permission of the instructors. Lecture, T 4:30. Fernow 8. Field work, T 2-4:30. Fall term: Assistant Professor Eckert and ———. Spring term: Associate Professor Gordon and ———.

Field trips and lectures devoted to a study of the natural history of several ecological units under different seasonal conditions, with special emphasis on the teaching of science and conservation. May be taken one or both terms.

R.E. 128. METHODS OF TEACHING SCIENCE IN SECONDARY SCHOOLS. Fall term. Credit three hours. Prerequisite or parallel course, Education 130, and permission of the instructor. For seniors and graduate students. Th 2-5:30 and additional hours to be arranged. Assistant Professor ECKERT.

A consideration of methods and materials useful in teaching science in secondary schools. Observation of the work of experienced teachers constitutes an important

part of the course.

- R.E. 129. PRACTICE IN TEACHING SCIENCE IN SECONDARY SCHOOLS. Fall or spring term. Credit four hours. Prerequisite, Rural Education 128 and permission of the instructor. For seniors and graduate students. Hours to be arranged. Assistant Professor Eckert.
- [R.E. 202. NATURE LITERATURE. Fall term. Credit two hours. Given in alternate years. Open to seniors and graduate students interested in science and science teaching. Associate Professor Gordon. Not given in 1953-54.]
- [R.E. 203. RESEARCH AND WRITING IN NATURE AND CONSERVA-TION EDUCATION. Spring term. Credit two hours. Not given in 1953-54.]
- R.E. 205. THE TEACHING OF CONSERVATION. Spring term. Credit two hours. T Th 10. Fernow 8. Assistant Professor ECKERT.

Consideration of the principles, materials, and methods of conservation education useful to teachers and others engaged in teaching wise use of the resources of the nation.

R.E. 207. METHODS AND MATERIALS FOR THE TEACHING OF SCIENCE IN SECONDARY SCHOOLS. Spring term. Credit two hours. Registration by permission only. Hours to be arranged. Fernow 8. Assistant Professor Eckert.

A consideration of problems of selection and organization of subject matter, of choice and use of materials, and of methods of teaching earth sciences at the secondary school level.

R.E. 209. THE DEVELOPMENT OF NATURE AND SCIENCE EDUCATION IN THE UNITED STATES. Fall term. Credit two hours. M W 10. Fernow 8. Associate Professor Gordon. Given in alternate years.

A survey of origins and developments in nature and science education, both in and out of school, with emphasis on leaders and their philosophies.

R.E. 226. RESEARCH IN NATURE STUDY, SCIENCE, AND CONSERVATION EDUCATION. Fall or spring term. Credit one hour a term. W 12. Fernow 8. Associate Professor Gordon, Assistant Professor Eckert, and ———.

A seminar dealing with special problems.

# CHILD DEVELOPMENT AND FAMILY RELATIONSHIPS

- C.D. & F.R. 450. SEMINAR: CHILD GUIDANCE. Spring term. Credit two hours. First meeting, W 4-6. Time to be arranged. Van Rensselaer, G-60E. Professor WARING.
- [C.D. & F.R. 475. FAMILY LIFE EDUCATION. Spring term. Credit three hours. T 2-4, and one additional hour each week to be arranged. Professor Rockwood. Not given in 1953-54.]

## HOME ECONOMICS EDUCATION

H.E. Ed. 110. HOMEMAKING EDUCATION AND THE COMMUNITY. Fall term. Credit one hour. T Th 11. Room 124. Associate Professor Hoefer and Associate Professor Patterson.

This course is offered to help the student who is planning to be a homemaker to understand the place in which she may serve in educational programs in her community. It will also give her a basis for understanding ways in which home economics serves all members of the family. It may help her in making a vocational

choice. Opportunity will be given to observe homemaking programs which are being conducted by the extension service, public schools, and other educational agencies.

H.E. Ed. 300. SPECIAL PROBLEMS FOR UNDERGRADUATE STU-DENTS. Fall and spring terms. Credit and hours to be arranged. Department Staff.

For students recommended by advisers and approved by the head of the department and the instructor in charge for independent, advanced work not otherwise provided in the department.

H.E. Ed. 320. EXTENSION EDUCATION. Fall term. Credit two hours. Open to juniors and seniors preparing for 4-H Club or home demonstration work. This course must precede Extension Education 321. Discussion period, F 2-4. Room 3M11. Associate Professor Hoefer.

Opportunity will be provided to observe extension and other community programs.

H.E. Ed. 321. EXTENSION EDUCATION. Fall and spring terms. Credit eight hours. Associate Professor Hoefer. Supervised field experience for one-half of the term in a selected county and conference periods for one-half of the term. Prerequisite, Extension Education 320. During this term students will take Homemaking Apartments 302. Students live in the Homemaking Apartments for seven weeks and in the county in which they are doing extension work for seven weeks.

Students are assigned to cooperating counties where opportunity is provided to work with the county extension staff and to gain experience in 4-H Club and/or home demonstration work. They live in the county and work under the direction and guidance of the local extension agents. A member of the college staff supervises this field experience. Students observe, assist, and participate in the program of the county extension groups. They should gain experience in teaching 4-H Club and/or home demonstration groups, in office management, radio, newswriting, and working with other county agencies, and in others of the usual activities of an extension agent.

H.E. Ed. 330-331. THE ART OF TEACHING. To be taken in two successive terms. Open to juniors and seniors preparing to teach home economics in the public schools. Associate Professor Moser, coordinator, assisted by Associate Professor Patterson, Assistant Professor Crawford, Mrs. Cornelius, Miss Elliott, and cooperating teachers.

Student teachers have an opportunity to study the community and the place of home economics in the total educational program of the community. They observe and participate in community activities in the total school program, and in the home economics program.

- 330. Fall and spring terms. Credit two hours. This course must precede Home Economics Education 331. Discussion period. T Th 8. Room 3M11.

  Field work one-half day a week, Students visit schools for the purpose of studying homemaking programs.
- 331. Fall and spring terms. Credit eight hours. Directed teaching for one-half of the term and general conferences throughout the term. Hours to be arranged. Room 3M11. This course is a continuation of Home Economics Education 330. During this term the student registers for only one other course, Homemaking Apartments 302. Students live in the Homemaking Apartments for one-half of the term and in the communities in which they teach for the other half of the term. Student teachers are assigned to co-

operating schools within a reasonable distance of Ithaca. They live in the communities and work under the guidance of the local homemaking teachers and under the supervision of the home economics staff.

H.E. Ed. 403. SPECIAL PROBLEMS FOR GRADUATE STUDENTS. Fall and spring terms. Credit and hours to be arranged. Department Staff.

For graduate students recommended by their chairmen and approved by the instructor in charge for independent advanced work.

H.E. Ed. 407. THESIS AND RESEARCH. Fall and spring terms. Credit and hours to be arranged. Registration with permission of the chairman of the graduate committee and the instructor. Professor Hutchins, Associate Professors Hoefer, Moser, and Patterson, Assistant Professors Blackwell and Crawford.

[H.E. Ed. 432. METHODS AND MATERIALS IN ADULT EDUCATION. Credit two hours. Associate Professor Patterson. Not given in 1953-54.]

H.E. Ed. 437. PRINCIPLES AND PHILOSOPHY OF ADULT EDUCATION. Fall term. Credit two or three hours. M 4-5:30. Martha Van Rensselaer 124. Open to undergraduates with permission. Associate Professor Patterson.

This course is designed for directors of adult education, teachers, extension agents, school administrators, and other leaders in adult education. Attention is focused on a philosophy of adult education and the principles as they relate to the place of adult education in the total program, adult needs, program planning, adult learning, and the growth and development of adult education. A wide variety of adult education activities in the Ithaca area provides opportunities for students to study the application of principles to local programs.

[H.E. Ed. 438. TEACHING HOMEMAKING TO ADULTS. Credit two or three hours, Associate Professor Patterson. Not given in 1953-54.]

H.E. Ed. 439. THE TEACHING OF HOME ECONOMICS. Spring term. Credit three hours. T Th 10 and other hours to be arranged. Room 124. Associate Professor Patterson.

Designed for students with teaching experience in college, extension, secondary schools, and adult programs. Attention is given to the place of discussion, demonstration, laboratory, trips, and use of radio, films, and recordings in teaching home economics. Opportunity is provided for experimentation with different teaching aids and procedures.

[H.E. Ed. 449. CURRICULUM PLANNING IN HOME ECONOMICS. Credit two or three hours. Assistant Professor Blackwell. Not given in 1953-54.]

H.E. Ed. 459. EVALUATION. Spring term. Credit three hours. W 11-1, F 11. Room 124. Preregistration required. Assistant Professor Blackwell.

For teachers, extension agents, and research workers who are concerned with methods of evaluating education programs and of appraising individual achievement. Opportunities for constructing, using, and evaluating instruments of appraisal.

H.E. Ed. 469. SUPERVISION OF HOME ECONOMICS EDUCATION. Fall term. Credit two hours. S 10-12. Room 301. Professor Hutchins.

This course is planned for supervising teachers, supervisors, and other educational leaders who are engaged in supervision and for those teachers who are preparing for supervisory positions.

H.E. Ed. 480. SEMINAR IN HOME ECONOMICS EDUCATION. Fall and spring terms. No credit. W 4. Room 3M11. Department Staff. Associate Professor Patterson, coordinator.

H.E. Ed. 485. SUPERVISION OF HOME MANAGEMENT RESIDENCE EXPERIENCE IN HOMEMAKING. Spring term. Credit two hours. T 9-11. Apartment B. Preregistration required. Assistant Professor Crawford.

This course is planned for home management house advisers and others preparing for this type of teaching. Attention is focused on organization, supervision,

and methods of teaching a residence course.

[H.E. Ed. 490. TEACHING HOME ECONOMICS IN HIGHER EDUCATION. Credit two hours, Associate Professor Patterson. Not given in 1953-54.]

#### INDUSTRIAL AND TECHNICAL EDUCATION

The program in industrial and technical education is designed to prepare persons for administrative and supervisory positions in the field of industrial and technical education in the public schools, and for positions in training departments in industrial establishments.

DEVELOPMENT OF COURSES OF STUDY IN INDUSTRIAL EDUCATION (ILR) 332. (Open to advanced undergraduate and graduate students.) Credit two hours. Summer term,

Study of the principles and procedures of course-of-study development. Content will include objectives of general and vocational education and their bearing on courses of study; controls which influence courses; interrelationships of courses within the curriculum; evaluation of courses of study. Emphasis will be placed upon the development of specific courses based upon occupational and other analyses.

DEVELOPMENT OF WRITTEN INSTRUCTIONAL MATERIALS (ILR) 333. (Open to advanced undergraduate and graduate students.) Credit two hours. Fall term.

Study of the various types of written instructional materials used in educational programs, with emphasis on the procedures and techniques used in their preparation. The course deals with the application of educational principles to written instructional materials; analytical and other techniques used in developing the course of study or the outline of the content; formats; writing the manuscript copy; illustrating the instructional manual; reproduction processes for instructional materials; and the preparation of copy for the printer. The course content is applicable to the development of training manuals in industry, instruction manuals for vocational schools, textbooks, and other types of written instructional materials.

CONFERENCE LEADERSHIP AND OTHER INSTRUCTIONAL METHODS (ILR) 334. (Open to advanced undergraduate and graduate students.) Credit three hours. Either term.

Study of the various methods of instruction applicable to adult groups, with special reference to workers and supervisors in industry. Content will include a review of educational objectives and principles of learning; demonstration and discussion of on-the-job training, group teaching, conferences, panels, symposiums, role playing, and other methods; applications of these methods to specific situations. Special emphasis will be placed on group discussion leadership, and students will be expected to lead group discussions on current topics and problems.

INDUSTRIAL AND TECHNICAL EDUCATION ON THE POSTSECONDARY LEVEL. (ILR) 336. (Open to advanced undergraduate and graduate students.) Credit two hours, Summer term.

A study of the historical background, present development, and trends in industrial education for adults and for recent high school graduates. Deals with technical institute education; industrial and technical education in the community college;

pre-employment and occupational extension programs, including apprenticeship; patterns of organization and administration; relationships of these programs with the high school and the college; legislation; and a comparative study of developments in this field in various parts of the United States.

TRAINING IN INDUSTRY (ILR) 364. Credit three hours. Spring term.

A study of the concepts and means used by management to develop skills, understandings, and attitudes of employees. Consideration is given to planning and administering training programs, including policy formation, coordination, staffing, selection of facilities, preparation of budget, use of records and reports, evaluation and publicity; and to both intermittent and continuous programs, including apprenticeship, job instruction, orientation, supervisory and executive development, and general education courses. Attention is given to determining training needs, objectives, and schedules, and to the selection of effective methods, devices, and incentives.

AUDIO-VISUAL METHODS (ILR) 392. Credit three hours. Spring term.

Open to juniors, seniors, and graduate students.

A discussion of the effectiveness of audio-visual methods as a means of communication. Training in the preparation and proper use of audio-visual materials and the methods of operation of various kinds of audio-visual devices. Stress is placed on the contributions of audio-visual methods to the solution of problems of mass communication.

INDUSTRIAL EDUCATION (ILR) 530. Spring term.

A graduate course providing a broad overview of educational principles and practices pertaining to training within industry, workers' education, and industrial education in public and private institutions. Basic principles of adult education; methods of teaching adults; development of courses of study; appraisal and development of instructional materials; organizational patterns of program; legislation affecting industrial education; interrelationships between public industrial education, management, and organized labor.

SUPERVISION OF INDUSTRIAL EDUCATION (ILR) 630. Summer term. Study of the nature and purpose of educational supervision of industrial education programs and fundamental principles of supervision; techniques and methods of supervision; the planning and organization of a supervisory program; the supervisor's responsibility for appraising the adequacy of equipment, materials, and supplies for instructional purposes; relationships of the supervisor to administrators and teachers; evaluation of student and teacher achievement.

INDUSTRIAL EDUCATION (ILR) 631. Spring term.

A graduate seminar dealing with problems of special importance in the field of industrial education within industry and in public industrial and technical institutions at the present time.

 $ADMINISTRATION \ OF \ INDUSTRIAL \ EDUCATION \ (ILR) \ 632. \ Summer term.$ 

Study of administrative practices in industrial and technical schools. Relationships of the administrator with other school officers; advisory committees and their functioning; public relations; problems of plant and equipment; budgetary procedures; staff personnel relations; teacher selection and induction; student personnel procedures; evening school organization and administration.

INDUSTRIAL EDUCATION IN SMALLER COMMUNITIES (ILR) 634. Summer term.

The organization and conduct of industrial education programs serving smaller high schools or consolidated school districts. Emphasis will be placed upon diversified part-time cooperative programs, apprentice training classes and vocational schools, county unit programs, and intermediate school districts.

SPECIAL STUDIES (ILR) 699.

Directed research in special problems.

#### INTERDEPARTMENTAL COURSES

101. INTRODUCTION TO THE STUDY OF SOCIETY. Either term. Credit three hours. Open to all students although primarily intended for freshmen. May not be taken for credit by those who have credit for R.S. 1. M W F 8, 9, 10, 12, or 2; T Th S 8, 10, 11. Mr. Streib and Professor Barron.

An introduction to the study of societies as interrelated systems; selected major problems of contemporary American society as seen in the context of our own

social system; social factors in personality formation.

The following course is offered cooperatively by the Departments of Zoology and Psychology:

201. HUMAN STRUCTURE AND DEVELOPMENT. Fall term. Credit three hours. Not open to freshmen. Prerequisite, a laboratory science, preferably general zoology or biology. Lectures, T Th 10; recitations, T 11, W 9, 11, Th 8, 11, or F 8, 10, 11. Preregistration required. Professor SINGER.

This course is prerequisite to Psychology 202, which forms the second half of a

year course.

The aim is to give the student an understanding of the structure, function, and development of the growing human being as the result of interplay between biological, psychological, and social factors. Course material is drawn from the pertinent biological and social sciences.

202. HUMAN STRUCTURE AND DEVELOPMENT. Spring term. Credit three hours. Prerequisite, 201. T Th 10. Professor Bronfenbrenner.

See description above.

#### **PSYCHOLOGY**

Psych. 103. EDUCATIONAL PSYCHOLOGY. Fall term. Credit three hours. Primarily for undergraduate prospective teachers. Prerequisite, Human Structure and Development or Psych. 101 or R.E. 10. M W F 11. Professor FREEMAN. (Equivalent of R.E. 111.)

Psych. 351. PSYCHOLOGICAL TESTS I. (Tests of intelligence and specific aptitudes.) Fall term. Credit three hours. Not open to sophomores. Prerequisite, a course in psychology and a course in statistics, or consent of the instructor. T Th S 9. Professor Freeman.

Basic psychological principles in the construction and use of individual and group tests of intelligence and specific aptitudes; theories of the nature of mental abilities; fields of application; intensive study of selected individual scales. Demonstrations in administering and interpreting individual scales.

Psych. 352. PSYCHOLOGICAL TESTS II. (Tests of personality and social behavior.) Spring term. Credit three hours. Prerequisite, Psych. 351 or equivalent and consent of the instructor. T Th S 9. Professor Freeman.

Basic psychological principles in the construction and use of personality rating scales, personality inventories, projective techniques, and situational tests. Demonstrations.

Psych. 410. INDIVIDUAL DIFFERENCES. Spring term. Credit three hours. Prerequisite, Psych. 351 or equivalent or consent of instructor, T Th 2-3:15. Professor Freeman.

The nature, causes, and implications of individual differences in human abilities and behavior. Study of atypical groups.

Psych. 411. PROCEDURES IN CLINICAL PSYCHOLOGY. Spring term. Credit three hours. Prerequisite, Psych. 351 and a course in personality development, or their equivalents. Primarily for graduate students. All students must have consent of the instructor. M 4-6 and conferences. Professor FREEMAN.

Procedures and instruments used with clinical cases involving problems of learn-

ing and behavioral adjustment. Study of case materials.

Psych. 543. PRACTICE IN PSYCHOLOGICAL TESTING. Either term. Credit to be arranged. Prerequisite, Psychology 351 or 352, or equivalent. Primarily for graduate students. All students must have consent of the instructor. Limited enrollment. Professor FREEMAN.

Practice in administering and interpreting individual tests of intelligence and personality, including projective techniques. Each student is expected to concentrate upon a single instrument in a given semester.

[Psych. 562. SEMINAR IN HUMAN DEVELOPMENT AND BEHAVIOR. Spring term. Credit two hours. For seniors and graduate students, Consent of the instructor is required. Professor Freeman. Not given in 1953-54.1

## THE EDUCATIONAL PLACEMENT BUREAU

THE Bureau is the central office of permanent record and placement for qualified Cornellians from all departments of the University who wish to secure professional positions in either secondary schools or colleges. With the Bureau's assistance Cornellians are regularly placed as teachers, guidance counselors, student personnel workers, supervisors, school administrators, and research workers. Requests are received throughout the year from public high schools, private schools, junior colleges, technical institutes, colleges, universities, and teacher-training institutions. On the college level the Bureau's contacts are nation-wide.

Services provided include a permanent file of credentials, available throughout each registrant's professional career, and up-to-date information concerning current positions, salary ranges, certification requirements in each state, and placement trends and demands. Detailed information pertaining to all accredited colleges, universities, junior colleges,

and private schools in the country is available for reference.

All Cornellians qualified and interested in school or college positions are invited to register with this office well in advance of the completion of their training. Credentials containing comprehensive information as to the personal and educational qualifications and experience of each registrant are compiled in conformity with standards established by the National Institutional Teacher Placement Association. With the cooperation of the registrant, this record is kept up to date at all times and is available to any educational institution or qualified official upon request. Heads of departments and professors are invited to use this service in placing their graduates.

The Bureau is located in Room 102, Stone Hall.

#### ON-CAMPUS EMPLOYMENT

The University maintains a placement service in the office of the Dean of Men for handling requests for part-time employment. Opportunities arise for normal types of student employment.

# THE EXPERIMENTAL PROGRAM IN ELEMENTARY TEACHER EDUCATION

THE SCHOOL of Education at Cornell University has launched a five-year experiment in the professional preparation of elementary teachers, supported by a liberal grant from the Fund for the Advancement of Education of the Ford Foundation. Instead of the usual curriculum based on accepted courses, a selected group of students have begun their training as interns under the direction of carefully selected elementary teachers. Problems that arise in connection with the internships are considered in an integrated seminar participated in by members of the University staff, supervising teachers, state specialists, and the student teachers.

Students who participate in this project must be graduates of approved liberal arts colleges, who have not taken professional courses as undergraduates and have not had formal teaching experience. Each must qualify for admission to the Cornell Graduate School. Men or women with this background of liberal arts education who have the essential personal qualifications for elementary teaching and are interested in such an experimental approach for their professional preparation, may apply for fellowships. Personal interviews will be requested whenever possible. Fourteen fellowships of \$1800 each are available to those who meet these requirements. A few students who meet all requirements may be admitted on a nonfellowship basis without a financial grant. Those who complete the year of graduate work successfully will be recommended for a Master of Education degree at Cornell and will be recommended to their respective state departments of education for certification upon graduation.

Persons interested in becoming interns for the 1953-54 school year should apply immediately for admission to: School of Education, Elementary Teacher Education Program, Barnes Hall, Cornell University,

Ithaca, N.Y.

## THE EXTRAMURAL DIVISION

OURSES in the extramural program are available to students interested in part-time study. These include regular on-campus offerings, scheduled for the convenience of students able to commute to the campus, and off-campus courses in outlying centers located to suit the convenience of a sufficient number of students to warrant the offering. Graduate credit may be earned in these courses and is recorded in the Registrar's office. A candidate for an advanced degree in Cornell University may have such credit applied toward requirements for the degree on recommendation of his Special Committee. Candidates for degrees in other institutions should be guided by the regulations in those institutions.

Residence credit toward advanced degrees in Cornell University may

be earned through extramural registration as follows:

1. A candidate registered extramurally for fewer than six semester hours a term in courses given on the campus during the regular academic year may accumulate residence credit by such work, on recommendation of his Special Committee, up to a maximum of one term or three summer sessions. For such work in the amount of six or more semester hours a term, maximum residence credit will be allowed as for work done in summer sessions.

2. A candidate registered extramurally in courses given at off-campus centers authorized by the University may accumulate residence credit, on recommendation of his Special Committee, up to a maximum of two summer sessions.

3. Residence credit earned by extramural work will be recorded only in blocks of six semester hours, each such block being regarded as the equivalent of one summer session of residence credit.

Students who wish to register for these courses should apply for information to the Director of the Division of Extramural Courses, Stone Hall.

### THE SUMMER SESSION

THE Administrative Board of the Summer Session offers academic instruction for both graduates and undergraduates by members of the faculties of the Graduate School, of the Colleges of Arts and Sciences, Engineering, Agriculture, and Home Economics, and of the Schools of Education, Industrial and Labor Relations, and Hotel Administration.

This unification of the curricula and faculties of the several schools and colleges makes possible the adaptation of academic work to the special needs of summer students. Undergraduate courses are equivalent to required and elective collegiate courses leading to the baccalaureate. Advanced courses, seminars, and informal study, treating topics of concern to students with special interests, are designed with particular regard for what can satisfactorily be treated in a short term and in the summertime. The needs of teachers are met not only in the workshops, seminars, and professional courses in education, but also in departmental courses. A number of unit programs and special courses are offered for professional workers other than teachers.

All necessary facilities of the University are available to students registered in the Summer Session: libraries, classrooms, and laboratories; residence halls, dining rooms, and cafeterias; health services and medical care; counseling services; student union, chapel, playing fields, and recreational areas.

The Summer Session's purpose is to place the facilities of the University at the disposal of persons who can use them to good advantage and for serious purposes during the summer period. Admission will not be granted to persons who are inadequately trained for the work they propose, or whose records in Cornell University or elsewhere are unsatisfactory. Nor will admission be granted to persons whose purposes seem inadequate or inappropriate or better served by other work at other institutions.

The Announcement of the Summer Session and application forms for admission are available from the Director of the Summer Session. A student planning to become a candidate for an advanced degree from Cornell University should apply for admission not only to the Director of the Summer Session but also to the Dean of the Graduate School.

Registration for the six-week Summer Session in 1953 will take place July 6, and classes will begin July 7, extending through August 15.

## THE UNIVERSITY TESTING AND SERVICE BUREAU

THE Bureau is designed to provide equipment and an organization whereby the various resources in the University can be utilized in the study of educational problems. These problems may arise in such areas as curriculum planning, testing and evaluation, administration and supervision, personnel management, youth adjustment, counseling, and psychological foundations of education. They may exist in any of the various colleges of the University, in the public schools, or in the communities of the state. In addition to the coordination of research, the Bureau offers statistical and clerical assistance to the staff and graduate students in their independent research studies.

The Bureau maintains an educational and vocational testing and guidance service for students referred by counselors of the Colleges, the Dean of Men, and the Dean of Women. Persons not enrolled at Cornell University may obtain such service upon application to the Bureau and

the payment of a fee.

Other forms of service include the maintenance of information concerning schools and colleges and related matters, teaching aids for use by the staff in the preparation of teachers, an extensive library of psychological and educational tests, and a small selected library of technical books and films dealing with research in education and psychology. There are numerous opportunities for graduate students in education to obtain practical experience in the various activities of the Bureau as part of their programs of study. Arrangements for such experience are made through the Director of the Bureau and the student's advisory committee.

Programs of reading improvement are conducted on an individual or group basis for students within the university found to be in need of

such training who request this service through their advisers.

Effort is made to offer educational service in harmony with recognized needs and developments. For that purpose suggestions as to improvement of the Bureau's program are constantly solicited.