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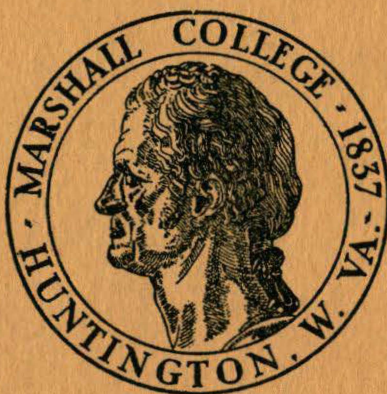
1949-
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Bulletin

MARSHALL COLLEGE

Graduate School

1949 - 1950



A STATE COLLEGE

HUNTINGTON, WEST VIRGINIA

WEST VIRGINIA
STATE BOARD OF EDUCATION
CHARLESTON

	<i>Term Expires</i>
MASON CRICKARD, <i>President</i> , Charleston.....	1956
LAWRENCE R. LYNCH, <i>Vice-President</i> , Clarksburg.....	1950
R. D. BAILEY, Pineville.....	1957
MRS. THELMA BRAND LOUDIN, Fairmont.....	1955
ROSS H. TUCKWILLER, Lewisburg.....	1954
W. H. NELSON, Beckley.....	1953
RAYMOND BREWSTER, Huntington.....	1952
BROOKS COTTLE, Morgantown.....	1951
GARLAND DUNN, Martinsburg.....	1949
W. W. TRENT, <i>State Superintendent</i> , Ex-Officio, Charleston	
H. K. BAER, <i>Secretary and Director of Teacher Training</i> , Charleston	

The West Virginia State Board of Education has charge of the educational, administrative, financial and business affairs of Marshall College.

MARSHALL COLLEGE

(FOUNDED 1837)

BULLETIN



VOLUME XXXIII, No. 2

GRADUATE SCHOOL



ANNOUNCEMENTS FOR 1950



JANUARY 1, 1949

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STEWART HAROLD SMITH, B. S., M. A., Ph. D.....	<i>President</i>
JAMES EDWARD ALLEN, A. B., LL. D.....	<i>President Emeritus</i>
DANIEL BANKS WILBURN, A. B., M. A., Ed. D.....	<i>Dean, Teachers College</i>
JOHN FRANK BARTLETT, A. B., M. A., Ph. D.....	<i>Dean, College of Arts and Sciences</i>
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FRED R. SMITH, A. B.....	<i>Comptroller and Business Manager</i>
CLARENCE M. YOUNG, A. B., M. A.....	<i>Director, Educational Research and Field Services</i>
ROSA V. OLIVER, A. B., Library Certificate.....	<i>Librarian</i>

GRADUATE SCHOOL



ADMINISTRATION

FACULTY

GENERAL INFORMATION

COURSES OF INSTRUCTION

THE GRADUATE FACULTY

JAMES J. BARRON, *Professor of Mathematics.*

Ph.D., 1934, University of Wisconsin; post-doctorate study 1942-1943, Yale University, and 1944-1945, Brown University.

JOHN FRANK BARTLETT, *Professor of Chemistry.*

Ph.D., 1932, West Virginia University; post-doctorate study 1936-1937, University of Zurich, University of Edinburgh, and Technische Hochschule in Munich.

RICHARD L. BEARD, *Associate Professor of Education.*

Ph.D., 1943, Ohio State University.

ROBERT LLOYD BECK, *Professor of Philosophy.*

Ph.D., 1931, Cornell University.

ROBERT LEEVERN BRITTON, *Associate Professor of Geography.*

M.S., 1930, University of Chicago; graduate student in Geography, 1932, 1943, 1944, University of Chicago, and 1941, Ohio State University.

JACK R. BROWN, *Professor of English.*

Ph.D., 1937, Northwestern University.

ELIZABETH COMETTI, *Associate Professor of History.*

Ph.D., 1942, University of Virginia.

VINCENT J. DALY, *Lecturer in Psychology.*

Sc.D., 1948, Berne.

HAZEL DANIELS, *Assistant Professor of Education and Supervisor in First Grade Laboratory School.*

M.A., 1935, Columbia University; graduate student in Education 1943, Ohio State University.

HOLLIE CLAYTON DARLINGTON, *Professor of Biology.*

Ph.D., 1942, University of Chicago.

LESLIE M. DAVIS, *Professor of Geography.*

Ph.D., 1935, University of Chicago.

CONLEY HALL DILLON, *Professor of Political Science.*

Ph.D., 1936, Duke University.

RALPH M. EDEBURN, *Associate Professor of Zoology.*

Ph.D., 1938, Cornell University.

MADELEINE HOFFMAN FEIL, *Assistant Professor of Psychology.*

Ph.D., 1948, Ohio State University.

DOROTHY A. FISHER, *Assistant Professor of Zoology.*

Ph.D., 1942, Cornell University; post-doctorate study in Zoology 1944, University of North Carolina, and 1945, Cornell University.

MIRIAM PEARL GELVIN, *Assistant Professor of Music.*

M.Ed., 1940, University of Cincinnati; M.Mus., 1940, Cincinnati Conservatory of Music; graduate student 1947, Columbia University.

- CLEO MARGARET GRAY, *Assistant Professor of Home Economics.*
M.S., 1927, University of Wisconsin; graduate student 1927, 1930,
1936, 1938-1939, University of Wisconsin, 1935, Iowa State University,
and 1947, Columbia University.
- NORMAN BAYARD GREEN, *Associate Professor of Zoology.*
M.S., 1931, West Virginia University; graduate student in Zoology
1942, 1944, 1945, 1946, 1947, Ohio State University.
- CHARLES P. HARPER, *Associate Professor of Political Science.*
Ph.D., 1937, Johns Hopkins University.
- ARVIL E. HARRIS, *Dean of the Graduate School and Professor of Political
Science.*
Ph.D., 1936, State University of Iowa.
- AUGUSTUS HAYES, *Professor of Sociology.*
Ph.D., 1920, University of Wisconsin.
- HAROLD M. HAYWARD, *Professor of Sociology.*
Ph.D., 1937, Clark University.
- HERSCHEL HEATH, *Professor of History.*
Ph.D., 1933, Clark University.
- JOHN HOLLAND HOBACK, *Assistant Professor of Chemistry.*
Ph.D., 1947, West Virginia University.
- GEORGE WASHBURN HOWGATE, *Professor of English.*
Ph.D., 1933, University of Pennsylvania.
- JOSEPH S. JABLONSKI, *Professor of Art.*
M.A., 1925, Harvard University; graduate student in Art 1922-1924,
Harvard University, Pratt European Fellowship.
- ALLEN CONNABLE KLINGER, *Professor of History.*
Ph.D., 1930, University of Wisconsin.
- KENNETH KARL LOEMKER, *Professor of Psychology.*
Ph.D., 1941, University of Chicago.
- CHARLES HILL MOFFAT, *Associate Professor of History.*
Ph.D., 1946, Vanderbilt University.
- HARRY EDWARD MUELLER, *Professor of Music.*
M.Mus., 1930, Cincinnati Conservatory of Music; Mus.D., 1933,
Capitol Conservatory of Music.
- PAUL N. MUSGRAVE, *Principal of Laboratory School and Professor of
Education.*
Ph.D., 1936, West Virginia University.
- LOUIS M. O'QUINN, *Professor of Economics.*
Ph.D., 1948, University of Texas.
- GERALD ROE PHILLIPS, *Assistant Professor of Social Studies.*
M.A., 1948, University of Minnesota.

- EDWARD LEWIS PLYMALE, *Assistant Professor of Botany*
Ph.D., 1942, State University of Iowa.
- ALLEN OTIS RANSON, *Professor of Speech*.
M.A., 1935, University of Wisconsin.
- VIRGINIA RIDER, *Assistant Professor of Education, High School English*.
M.A., 1933, University of Michigan.
- MYRTLE MACDANNALD ROUSE, *Associate Professor of Home Economics*.
M.A., 1934, Columbia University; graduate student in Home Economics 1936, 1937, Columbia University.
- ORA E. RUMPLE, *Professor of Chemistry*.
Ph.D., 1936, Indiana University.
- MARIA ELIZABETH SKIDMORE SASSER, *Assistant Professor of Art*.
Ph.D., 1946, Ohio State University.
- ALLEN W. SCHOLL, *Professor of Chemistry*.
Ph.D., 1934, Pennsylvania State College.
- ROBERT P. SECHLER, *Professor of English*.
Ph.D., 1931, University of Pennsylvania.
- LOUISE SIRES, *Assistant Professor of Education*.
M.Ed., 1945, University of Missouri.
- RUSSELL B. SMITH, *Professor of Education*.
Ph.D., 1939, Ohio State University.
- STEWART H. SMITH, *Professor of Education and President of College*.
Ph.D., 1943, Syracuse University.
- PAUL D. STEWART, *Assistant Professor of Political Science*.
Ph.D., 1948, Duke University.
- FLORENCE THOMAS, *Assistant Professor of Botany*.
Ph.D., 1948, Cornell University.
- HORACE GRESHAM TOOLE, *Professor of History*.
Ph.D., 1932, University of Pennsylvania.
- FRANCES W. WHELPLEY, *Assistant Professor of Chemistry*.
Ph.D., 1931, Columbia University.
- DANIEL BANKS WILBURN, *Associate Professor of Education*.
Ed.D., 1945, The George Washington University.
- ROY CLEO WOODS, *Professor of Education*.
Ph.D., 1927, State University of Iowa.
- CLARENCE MORRIS YOUNG, *Assistant Professor of Education*.
M.A., 1932, West Virginia University.

COLLEGE CALENDAR

1949-1950

FIRST SEMESTER

September 12-17.....	Freshman Orientation and Registration of all classes
September 16.....	Registration of Part-time and Evening Students
September 19, Monday 8:00 A. M.....	Classes Begin
November 14.....	Mid-semester Reports
Nov. 23, Wed. Noon—Nov. 28, Mon. 8:00 A. M.....	Thanksgiving Recess
December 12.....	Beginning of Advanced Registration Graduates, Seniors, Juniors
December 17, Sat. Noon—Jan. 2, Mon. 8:00 A. M.....	Christmas Recess
January 4.....	Beginning of Advanced Registration Sophomores, Freshmen
January 23-28.....	Examination Week
January 28.....	Semester Ends

SECOND SEMESTER

January 30-31.....	Registration
February 1.....	Classes Begin
February 4.....	Registration Part-time
April 3.....	Mid-semester Reports
April 6, Thurs. Noon—April 11, Tues. 8:00 A. M.....	Easter Recess
May 8.....	Beginning of Advanced Registration
May 27—June 3.....	Examination Week
May 28, Sunday.....	Baccalaureate
May 29, Monday.....	Commencement
June 3.....	Semester Ends

FEES AND EXPENSES

All registration and laboratory fees are due and payable at the cashier's office on the day of registration.

The cashier accepts cash, postal money orders, or approved personal checks written for the exact amount of the obligation. All checks must be made payable to Marshall College, and no check will be accepted until day of registration.

REGISTRATION FEES

Full-time Students (twelve or more semester hours)

	Resident of West Virginia	Non- resident ¹
Tuition Fee	\$30.00	\$100.00
Student Activity Fee.....	9.00	9.00 ²
Hospitalization and Insurance Fee.....	5.00	5.00
	<hr/>	<hr/>
Total Registration Fee.....	\$44.00	\$114.00

Part-time Students (less than twelve semester hours)

Fee per semester hour³:

Resident Classes	3.00	9.00
Extension Classes	7.50	7.50

SPECIAL FEES

Late Registration Fee ⁴	\$ 2.00
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Graduation Fees

Associate Degree	\$ 5.00
Baccalaureate Degree	5.00
Graduate Degree	10.00

Cap and Gown Fee

Associate Degree	\$ 2.00
Baccalaureate Degree	2.00
Graduate Degree	5.00

¹NON-RESIDENT FEES. The term "non-resident fees" shall apply to and include those students from foreign states who move into the vicinity of a state college for the purpose of attending college and who will return to their former places of abode without the State of West Virginia at the close of the school or shortly thereafter.

The term shall not apply to nor include those students whose parents have moved from foreign states who have declared their intention of becoming bona fide residents of the State of West Virginia at the close of schools or shortly thereafter. The children of such parents shall be admitted to the college under the direction and supervision of the State Board of Education on payment of fees required of bona fide citizens of the State.

²THE STUDENT ACTIVITY FEES are allocated as follows: Assemblies and Forums 25c, Athletics \$3.00, Parthenon \$1.25, Recreation (Greenhouse) 50c, Student Council 50c, Student Union 50c, College Theatre 50c, Artists Series \$2.50, Hospitalization and Accident Insurance \$5.00 . . . total per semester \$14.00.

³FEE PER CREDIT HOURS. This fee does not include a student activity book. Part-time students may purchase the book for \$5.50.

⁴PENALTY for those who register after the registration date stated in the catalogue.

Fee for Change of Schedule	1.00
Special Examination for Credit per sem. hr.	3.00

Graduation fees will be due and payable on notification from the dean of the student's respective college.

Music Fees

No special fee is charged for music. Any regularly enrolled full-time student may enroll for music courses listed under Teachers College with permission of Head of Music Department and Dean.

Piano practice, one hour per day.....\$ 3.00

LABORATORY FEES

Laboratory fees are stated in the description of the courses and are Payable at the time of registration. (See Courses of Instruction.)

ROOM RENT

(Per Semester of 18 Weeks)

Laidley Hall

Small doubles, each student	\$50.00
Large doubles, each student	55.00
Singles	60.00

College Hall

Doubles, each student	\$50.00
Singles	\$55.00

Hodges Hall

All rooms.....	per person.....	\$54.00
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Allen Court

All rooms.....	per person.....	\$35.00
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Before a student can occupy a room in any dormitory for any one semester a \$10.00 deposit must be made.

The \$10.00 deposit will be credited to the student's semester room rent providing the student occupies dormitory facilities for the entire semester.

If, for any reason, the student does not desire to use the facilities on which he (or she) has made a \$10.00 deposit, he (or she) must notify his (or her) dean in person or in writing before August 15 for the first semester and before January 5 for the second semester, in which case the dean will authorize a refund of \$8.00.

In case of withdrawal from the dormitory during a semester the \$10.00 deposit, plus the pro rated rent for actual weeks of occupancy, is deducted.

BOARD

All students living in the dormitories must take their meals in the College Dining Hall. Meals are available to students rooming off the campus at the same rate as resident students.

The cost of board is \$162.00 for each semester. This cost is based on prevailing prices and subject to change in the event of continued price increases in food cost. Board may be paid in full upon entrance or in two equal installments each semester. The first installment is due and payable on the day of registration; the second installment is due November 14 for the first semester and April 3 for the second semester.

Meal books are not valid during vacation periods. If it is necessary for the student to remain on the campus during such periods, he can obtain meals at regular cafeteria prices if the cafeteria remains open.

Two per cent (2%) consumers' tax will be added to the board and room charges. This tax must be paid in full each semester on the first room and board payment.

NOTE: No deduction or refund will be made in room and board charges for short absences (less than one week).

ESTIMATE OF EXPENSES

Estimated semester expenses of a student at Marshall College are outlined in the following table. These estimates are made of both minimum and average expenses and cover the usual charges for board, room, tuition, and fees which are paid to the college. In addition, the costs of college supplies, personal and social expenses are calculated.

	Minimum	Average
TUITION	\$ 30.00	\$ 30.00
Student Activity Fee	9.00	9.00
Hospitalization	5.00	5.00
Board	162.00	162.00
Room	50.00	55.00
Books, Gym outfit	20.00	30.00
Supplies, laboratory fees, etc.....	5.00	10.00
Social and Personal.....	45.00	70.00
	<hr/>	<hr/>
	\$326.00 plus tax	\$371.00 plus tax
Out-of-state students pay an additional fee of.....	\$ 70.00	\$ 70.00

Tuition, hospitalization, student activity, laboratory and graduation fees, dormitory room rent, at least one-half of the board, books, and all tax are payable at the beginning of the semester.

The activity fee entitles students to admission to the Forum, Artists Series for the season, athletic events, College Theatre, copies of *The Parthenon* (college paper), use of the Student Union, and the advantage of hearing lectures brought to the Marshall College Auditorium.

REFUND OF FEES

Students who withdraw regularly from college may have a refund in accordance with the following schedule:

To withdraw regularly from college a student must fill out the card used for this purpose; have it approved by the academic dean, the social dean, and the librarian; and deposit it with the registrar. (A student who withdraws irregularly from college is not entitled to a refund.) Regulations governing withdrawal shall apply to all students, full-time and part-time.

A full-time student is one registered for twelve (12) or more semester hours during a semester.

A part-time student is one registered for less than twelve (12) semester hours during a semester.

I. Withdrawal from college of part-time students

- a. During the first and second weeks of the semester, students carrying four hours or less shall be refunded the full amount paid, less \$0.50 for each semester hour enrolled. All students enrolled for five (5) or more hours shall be refunded all fees less \$2.50.
- b. After the second week of the semester, all refunds to part-time students shall be on the same percentage basis as to full-time students outlined in Item III below.
- c. Withdrawals from Extension Classes. No refund will be granted to a student withdrawing from an extension class unless such withdrawal is due to faculty and/or administrative action.

II. Reduction of academic load by part-time students

- a. During the first and second weeks of the semesters, students carrying four (4) semester hours or less shall be refunded the full amount less \$0.50 for each semester hour dropped.
- b. During the first and second weeks of the semester students carrying five (5) or more hours shall be refunded all tuition fees less \$2.50.
- c. After the second week of the semester all refunds shall be on the same percentage basis as refunds for full-time students, outlined in Item III below.
- d. No refund will be granted to any full-time student who by reason of dropping courses, unless by administrative action, acquires the status of a part-time student.

III. Withdrawal from college of full-time students

Students who withdraw regularly from the college may have a refund in accordance with the following schedule:

No refund will be granted on the student activity, hospitalization¹, or laboratory fees.

	Amount of Refunds
During the first and second weeks.....	All tuition fee less \$2.50
During the third and fourth weeks.....	80% of tuition fee
During the fifth and sixth weeks.....	60% of tuition fee
During the seventh and eighth weeks.....	40% of tuition fee
Beginning with the ninth week.....	No refunds allowed

¹If the student should withdraw within thirty days from the opening date of the registration period, a full refund may be obtained by applying directly to the insurance company, North America Assurance Society, (District Office) Huntington, W. Va. Proper forms may be obtained in the Comptroller's Office.

IV. Withdrawals due to administrative action

When it becomes necessary to cancel a class by administrative and/or faculty action, all students involved will be granted full refund for the class cancelled unless the students register in another course of like value in terms of semester hours. This section shall not apply to withdrawals due to disciplinary action.

V. Fee for change of class schedules

One dollar will be charged for each change in a student's schedule after it has been approved by the dean. This charge shall be waived in those cases where the change is required or desired through no fault of the student, or when caused by incorrect information on the part of the college. A change of schedule includes any addition to, subtraction from, or substitution in original schedule.

The respective Deans shall notify the Registrar of all schedule changes on pink "Change of Schedule Cards." This card must carry a notation from the Dean as to whether the change of schedule fee is to be charged or waived.

VI. Fees for fractional hour courses

Tuition for one-half semester hour courses or other fractional hour credit shall be the same as that charged for one semester hour. The present rate of three dollars (\$3.00) per semester hour shall apply to each hour or fraction thereof.

VII. Fees for auditing courses

- a. Faculty members may audit courses without charge. All faculty members desiring to audit courses must secure the approval of their Dean as well as that of the instructor of the course or courses they desire to audit. It will, also, be necessary for them to enroll in the regular manner for such courses.
- b. All persons other than faculty members who desire to audit classes shall enroll and pay fees in the same manner and at the same tuition rate as student enrolling for credit.

VIII. Refund of laboratory fees

No refunds will be granted on laboratory fees unless a student is required to withdraw from a laboratory class by administrative action.

GENERAL INFORMATION

Courses and Degrees

In October, 1938, the State Board of Education approved regulations under which Marshall College is authorized to conduct graduate instruction leading to the Master of Arts and the Master of Science degrees. Graduate work was first offered during the summer session of 1939.

Ordinarily the Master of Arts degree will follow the Bachelor of Arts degree, and the Master of Science degree will follow the Bachelor of Science degree; however, in case a Bachelor of Arts degree has been received on qualifications which meet present requirements for the Bachelor of Science degree, either the Master of Arts or the Master of Science degree may follow at the option of the candidate.

Administration

The Graduate School is administered by the Dean who is responsible to the President in all matters involving the interpretation and formulation of policy.

Objectives of Graduate Work

1. To meet a regional need for an opportunity for graduate study.
2. To aid in the development of a corps of Master teachers, administrators, and counselors for the public schools of West Virginia.
3. To prepare students to use and evaluate the better known techniques of research and to appreciate its contribution to knowledge.

Graduate Work Available

Graduate work for a major is offered in the following departments: biological sciences, chemistry, education, English, geography, history, political science, psychology, and sociology. A limited amount of work is offered in art, economics, home economics, mathematics, music, philosophy, and speech.

Admission to Graduate Study

Admission to graduate courses is open to graduates of Marshall College and to graduates of all other accredited colleges and universities provided their undergraduate records are satisfactory. Students who are graduates of non-accredited institutions may be admitted conditionally. Admission to graduate study is based on official transcripts of college credits and on the information contained in the formal application for admission to the Graduate School. This application form may be secured by writing to the Dean of the Graduate School. Applications should be submitted one month prior to the beginning of the semester in which the student plans to register. Two official transcripts of the applicant's undergraduate work should

be sent to the office of the Registrar. One of these will remain in the Registrar's office and the other will be delivered to the office of the Dean. All graduates of standard four-year colleges must register in the Graduate School. Seniors who, in the last term or semester of their undergraduate work, need fewer hours than a full schedule to meet the requirements for the undergraduate degree, may complete their schedules by taking graduate courses for credit to be applied toward the master's degree.

The Adviser

The Dean assigns the student an adviser from his major department. The adviser will assist the student in planning his program for the master's degree. If the student writes a thesis, the adviser will direct the student in that work. Application for admission to candidacy for the master's degree and admission to the comprehensive examination must carry the recommendation of the adviser. The student should keep in close touch with his adviser during the progress of his work.

Credit and Courses

At least thirty-two hours of graduate credit shall be earned for the master's degree. Of this thirty-two hours credit not to exceed six semester hours may be earned by writing a thesis or problem report. Those who do not write a thesis or problem report must complete thirty-six hours in course work for the degree.

A minimum of eighteen hours must be earned in one subject known as a major and a minimum of six hours in another subject known as a minor. Courses may be taken in a third closely related field if approved by the adviser. An exception to the requirement of eighteen hours for the major in one field may be made in the case of social studies teachers who may choose to distribute their graduate work over the broad area in which they teach in accordance with a pattern set forth elsewhere in this catalogue.

In departments which offer specialized professional curricula, the requirement of a minor may be eliminated, thus permitting the student to concentrate or to diversify his graduate work toward the attainment of professional competence. Permission to eliminate the minor will be granted only in certain curricula previously approved by the dean and only when recommended by the adviser.

As a general rule, at least twelve hours is the undergraduate prerequisite for a graduate major. Six hours is the prerequisite for the minor. A few departments require more than the minimum for admission to graduate courses. In cases in which it is to the advantage of the student's program work may be taken in a second minor, in which case the undergraduate prerequisite may be waived with the consent of the dean and department concerned.

At least one half of the work counted for the master's degree must be taken in courses numbered 500 or above. Courses marked with a

star (400*) in the catalogue and on schedules may be taken for graduate credit. Graduate students in these courses will be expected to do additional work, some of which may be of a research character.

Residence

A year's work in residence is required for the master's degree. At least thirty-six weeks must elapse between matriculation and graduation. This period may be shortened for those holding the Bachelor's degree from Marshall College upon recommendation of the student's adviser.

All requirements for the master's degree must be met within five years from date of matriculation unless an extension in time is granted by the dean. A student whose time is extended for completion of the degree must meet the requirements carried in the catalogue in the year of the conferring of the degree. A student who does work in extension courses for graduate credit must be in residence one semester and one summer term, or four six-week summer terms.

Thesis

A thesis or problem report of a research character completed to the satisfaction of the major department may be submitted for credit not to exceed six semester hours. The amount of credit allowed will be determined by the quality and character of the paper submitted. Students who will profit more by doing additional course work in lieu of a thesis or problem report must earn thirty-six course hours. The adviser and student will be guided by the student's needs and interests in determining whether he is to write a thesis.

The thesis must be sufficiently advanced one month before the time of graduation to assure the adviser of its acceptability. Three copies of the thesis or problem report must be filed with the dean of the Graduate School not later than two weeks before the date of graduation. The thesis or problem report must be prepared according to the form furnished by the Graduate School office.

Admission to Candidacy

It should be remembered that admission to graduate courses does not imply admission to candidacy for the master's degree. The student may be admitted to candidacy only after he has proved his ability and fitness to do graduate work in a chosen field. Immediately after the completion of twelve semester hours of work with satisfactory grades, the student should apply for admission to candidacy for the degree. The application, bearing a proposed program for the rest of the student's work for the degree, must carry the recommendation of the student's adviser and must be made on a form secured from the office of the Dean.

Graduate students are expected to be able to write simple, clear, correct composition with reasonable effectiveness. Deficiency in this

skill may be regarded as sufficient grounds for delaying recommendation for admission to candidacy or recommendation for graduation until a reasonable standard of excellence is demonstrated.

Transfer of Credit and Extension Work

The Dean may, upon the student's petition, grant to a student the privilege of transferring to Marshall College, for application on the master's degree, a maximum of six graduate hours earned in another institution when, in the judgment of the Dean and the major department, such credit is to the advantage of the student's program. Occasionally it may be recommended that a student earn six hours in another institution in work not offered by Marshall College. Work done by extension and work transferred from another institution shall not aggregate more than fifteen semester hours. Graduate credits transferred from other institutions may be accepted so long as they are not superannuated for graduate credit toward meeting the requirements for a degree in the institution from which the transfer of credit is requested.

Grades and Examinations

At least one half of the work counted for credit toward the master's degree shall carry a grade of "B" or above, and no work on which a grade lower than "C" is earned may be applied in meeting the requirements for the degree.

A comprehensive examination covering the work of the major field must be taken under the direction of the dean after it appears that the course work in progress will be successfully completed. The examination may be either oral or written, or both. The examination is not to rest primarily upon the specific courses pursued but is to test the student's maturity of thought in his field of specialization. The questions for the written examination will be prepared by the student's adviser in consultation with other instructors in the major field. The oral examination will be conducted by a committee of three appointed by the Dean so as to include the student's adviser and the head of the major department.

COURSES OF INSTRUCTION BY DEPARTMENTS**ART**

Courses may be taken with approval of the student's adviser and instructor in the course.

Courses Open to Juniors, Seniors, and Graduate Students**401.* History of Art.** Three hours.

A general survey of the development of architecture, sculpture, painting, and the minor arts to 1400 A. D.

402.* History of Art. Three hours.

A survey of occidental art from 1400 A. D. to the present.

Courses Open to Graduate Students Only**501. Projects and Methods in Elementary Art Education.** Three hours.

This course is intended to serve the needs of graduate students with limited experience in the arts and crafts who wish to familiarize themselves with recent developments in the methods and materials used in art education on the elementary level. Laboratory fee, \$3.00.

503. Experiencing Art in Everyday Life. Three hours.

The study and appreciation of architecture, painting, community planning, interior decoration, furniture design, and the use of color. Emphasis is placed on contemporary environment and the problems arising therefrom.

BIOLOGICAL SCIENCE**Courses Open to Juniors, Seniors, and Graduate Students****401.* Laboratory Technique.** Two hours.

The methods, devices and apparatus of biological research are studied in some detail. The basic principles and practices of culturing, collecting, caring for, and preservation of laboratory animals are taken up and practice is given in setting up student and demonstration experiments.

Prerequisites: Zoology 211 or equivalent course.

402.* Vertebrate Natural History. Zoology. Three hours.

A study of the various vertebrate groups exclusive of birds, with emphasis on their origin, classification, life history, habitats, and distribution.

Two lectures and one two-hour laboratory period each week.

Prerequisites: Zoology 212 or equivalent course.

404.* Plant Taxonomy. Botany. Four or five hours.

The identification and classification of the flowering plants and ferns of eastern United States. Each student will prepare a small herbarium. Field and laboratory study.

Two lectures and two two-hour laboratories each week.

*Undergraduate Courses Open to Graduate Students.

409.* Animal Ecology. Zoology. Four hours.

A study of animals in relation to their environment, including collection and examination of material from the common types of habitats.

Two lecture and two two-hour laboratory periods each week.

Prerequisites: Zoology 211 or equivalent course.

411.* Biology Seminar I. One hour.**412.* Biology Seminar II. One hour.****482.* Problems in Conservation. Two hours.**

Sponsored by cooperating colleges at Jackson's Mill. Primarily for teachers of biology, general science, and vocational agriculture, and for youth leaders who are working toward advanced degrees. Field work is stressed and there are daily seminars on phases of conservation. For further particulars write the Registrar, Marshall College.

Courses Open To Graduate Students Only

501. Vertebrate Embryology. Four hours.

A study of the various phases of vertebrate development with particular emphasis on the frog, chick, and pig.

Two lectures and two two-hour laboratories each week.

502. Comparative Vertebrate Anatomy. Four hours.

A study of the evolutionary development of the various systems of organs in the vertebrate body. Particular emphasis is given to the dogfish and cat in laboratory.

Two lectures and two two-hour laboratories each week.

504. Problems in Plant Physiology. Botany. Four hours.

A study of the principles of plant physiology as applied to problems of the laboratory, greenhouse, and field culture.

505. Advanced Economic Botany. Four hours. (In summer, three hours.)

A study of the origin and development of economic plants with special emphasis upon problems of distribution in relation to possible future use of many plants not widely known.

506. Problems in Ecology. Biology. Four hours.

Problems dealing with environmental factors and their control of the development and distribution of animal and plant communities.

Prerequisite: 10 hours Biological Science or Consent of Instructor.

507. Problems in Genetics. Biology. Four hours.

A study of the principles of genetics as applied to plants and animals, and the application of these principles in the field of modern methods of plant and animal breeding, including human applications.

Prerequisite: Four hours. Botany, Zoology or Biology.

*Undergraduate Courses Open to Graduate Students.

508. Problems in Ornithology. Zoology. Three hours.

Field identification, habitat distribution, breeding habits, migration, and economic and cultural values of birds.

510. History of Biological Science. Two hours.

A study of the development of Biology as a science, including biographies of the great scientists from Aristotle to the present.

511. Bacteriology. Four hours.

The techniques of culturing, isolating, and identifying bacteria, with a study of their distribution in air, milk, water, and food. Attention is given to disease-producing bacteria, methods of disinfection, and principles of immunity.

Two lectures and two two-hour laboratories each week.

513. General Entomology. Zoology. Two hours.

An introductory course with emphasis on structure, habits, life history and economic importance of insects from the taxonomic point of view.

Not open to students who have had Biology 503.

514. General Entomology. Zoology. Two hours.

A laboratory course dealing with collection, identification, classification, and mounting of insects.

Not open to students who have had Biology 503.

515. Advanced Plant Morphology. Four hours.

A study of the characteristics of the great plant groups. Discussion of the important steps in the development of plants.

Two lectures and two two-hour laboratory periods each week.

520. Science for Elementary Teachers—Primary Grades. Three hours.

This will be a combination methods and content course. Teachers will be trained in observation and interpretation of biological and physical phenomena in the community of the school. The main criterion for the selection and presentation of subject matter will be the needs and interests of the teacher.

521. Science for Elementary Teachers—Intermediate and Upper Grades. Three hours.

Follows general plan of Biological Science 520. Much of the course will be derived from the natural environment of the average school community.

525. Human Anatomy and Physiology. Four hours.

A study of the structure and functions of the human body and their correlative adaptations to life.

Three lectures and one two-hour laboratory each week.

542. Investigations in Conservation. Two hours.

Sponsored by cooperating colleges at Jackson's Mill. Individual work on problems of conservation under the direction of staff members. Students will attend the evening seminars, and will have opportunities to learn the operation of audio-visual equipment.

550. **Special Problems.** One to three hours.
551. **Special Problems.** One to three hours.
552. **Special Problems.** One to three hours.
580. **Thesis or Problem Report I.** One to three hours.
581. **Thesis or Problem Report II.** One to three hours.

CHEMISTRY

For a major in chemistry the student must have majored in chemistry as an undergraduate and present credits in five one-year courses in chemistry. These must include one year courses in general (general plus qualitative), analytical, organic and physical chemistry, mathematics through calculus, ten semester hours of physics, and two years of either French or German. German is preferred. Deficiencies in undergraduate training can be made up by taking the appropriate courses for no credit.

Upon entering the graduate school the candidate will be required to pass satisfactorily a comprehensive examination in analytical, inorganic, organic and physical chemistry.

The student must complete twenty hours of graduate courses in one field of chemistry which may include not more than ten hours of 400* courses. A minimum of two hours of seminar and a reading knowledge of German are required. Courses in advanced mathematics are recommended especially for students doing research in physical chemistry. The student must present five copies of an acceptable thesis three weeks before graduation and defend his work in an oral examination given by the chemistry staff. The original and first two carbon copies must be delivered to the office of the Graduate School.

A two-dollar fee for all laboratory courses including research and a five-dollar breakage deposit shall be payable to the financial secretary upon registration.

Courses Open to Seniors and Graduate Students

- 403.* **Advanced Inorganic Chemistry.** Two hours.

A study of the complex metallic compounds, the theories of valence and compound formation from a consideration of the periodic law.

Prerequisite: Chemistry 302.

- 404.* **Colloid Chemistry.** Two hours.

A study of inorganic and organic colloid solutions from a practical viewpoint. The study includes emulsions, detergents, and natural and synthetic colloid systems.

Prerequisite: Chemistry 412.

*Undergraduate Courses Open to Graduate Students.

457.* Physical Chemistry. Five hours.

Open to seniors and graduates only. No graduate credit for chemistry majors.

A general course in physical chemistry.

Experiments in viscosity, molecular weight determination, vapor density, etc.

458.* Physical Chemistry. Five hours.

Open to seniors and graduates only. No graduate credit for chemistry majors.

Experiments in rates of reaction, electromotive force, gas cells, salt effect, etc.

A continuation of Chemistry 457*.

Prerequisite: Chemistry 457*.

Courses Open to Graduate Students Only

501. Organic Chemistry. Four hours.

A comprehensive survey of the reactions of aliphatic and aromatic compounds with attention to the theories of organic chemistry.

Prerequisite: Chemistry 302.

502. Organic Quantitative Analysis. Three credit hours.

The ultimate analysis of organic compounds using semi-micro, and spot test techniques. Two hours lecture and six hours laboratory.

Prerequisite: Chemistry 204 and 302.

503. Theories of Analytical Chemistry. Four hours.

A comprehensive study of the theories of equilibrium in solution and the application to the separation and identification of the lesser known inorganic compounds.

Prerequisite: Chemistry 403.

504. Organic Qualitative Analysis. Three hours.

A study of the separation and identification of organic compounds.

Prerequisite: Chemistry 302.

505. Methods in Biological Assay. Four hours.

A study of the physical, chemical, and biological methods of assay of food constituents and related substances, with emphasis on individual reading and reports in connection with research problems in this field. Two hours lecture and six hours laboratory.

Prerequisite: Elementary course in biochemistry.

*Undergraduate Courses Open to Graduate Students.

510. Instrumentation. Four hours.

A study of the newer instruments in their application to analytical chemistry and industrial control testing.

Prerequisite: Chemistry 503 and 504.

511. Instrumentation. Four hours.

A continuation of Chemistry 510.

Prerequisite: Chemistry 510.

516. Chemical Kinetics. Three hours.

A study of the rates of reaction in simple gaseous and liquid phases.

Prerequisite: Chemistry 412.

520. Chemical Education. Three hours.

A course designed for the high school science teacher and for those studying for the master's degree in education with a minor in chemistry. The course consists of the preparation and demonstration of the newer type lecture demonstration equipment and a discussion of the newer teaching methods in chemistry.

Prerequisite: Teaching experience or permission by the head of the department.

521. Chemical Education. Three hours.

A continuation of Chemistry 520.

Prerequisite: Chemistry 520 or permission by the head of the department.

531. Seminar. One hour.

Required of all students majoring in chemistry. Those minoring in chemistry are invited to attend.

532. Seminar. One hour.

Required of all students majoring in chemistry. Those minoring in chemistry are invited to attend.

533. Research. One to four hours.

A special laboratory problem, the completion of which furnishes the basis of the master's thesis. The writing of monthly progress reports and a satisfactory thesis is considered part of the research problem.

534. Research. One to four hours.

A continuation of Chemistry 533.

580. Thesis or Problem Report I. One to three hours.

In lieu of a laboratory research problem the student may elect a problem of library research on some phase of chemistry. The correlation and recalculation of data forms the basis of this course. (See note below.)

581. Thesis and Problem Report II. One to three hours.

A continuation of Chemistry 580.

NOTE: A student may receive credit for Chemistry 533 and Chemistry 534 or for Chemistry 580 and Chemistry 581. He may not receive credit for Chemistry 533 or Chemistry 534 in combination with Chemistry 580 or Chemistry 581.

ECONOMICS

Courses may be taken with approval of the student's adviser and instructor in the course.

Courses Open to Juniors, Seniors, and Graduate Students**402.* Business Cycles.** Three hours.

A study of theories of economic fluctuations.

Prerequisite: Economics 310 and junior, senior, or graduate standing.

No credit if Economics 308 has been taken.

405.* The Nature and Significance of Economics. Three hours.

An inquiry into the matter of what economics is and how the science fits into the scheme of things, plus a summary statement of the new general theory of economics. (This course is recommended for non-majors in economics also.)

Prerequisite: Economics 242 or 340, and junior, senior, or graduate standing.

408.* Contemporary Economic Systems. Three hours.

An examination of the theories and policies of capitalism, socialism, and fascism. (This course is recommended for non-majors in economics also.)

Prerequisite: Economics 242 or 340 and junior, senior, or graduate standing.

412.* American Contributions to Economic Thought. Three hours.

This course deals with the new economics—especially the instrumental theory of economic value, welfare, and progress—which is largely the product of American scholars.

Prerequisite: Six hours of advanced economics and senior or graduate standing.

440.* Classical Economics. Three hours.

A study of the origin and development of contemporary economic theories, with emphasis on the period from Phryseocrats to John Stuart Mill.

Prerequisite: Economics 242 and junior, senior, or graduate standing.

444.* Contemporary Economic Theory. Three hours.

A study of the main line of economic thought of the twentieth century.

Prerequisite: Economics 242 and junior, senior, or graduate standing.

*Undergraduate Courses Open to Graduate Students.

461*-465*. Seminar in Special Topics. Two to four hours.

These numbers are arranged for the teaching of any standard economic topic not listed among the course offerings when occasion arises.

Prerequisite: Economics 242, and junior, senior, or graduate standing and consent of instructor.

491*-495*. Research Problems. Two to four hours.

These courses are arranged so that a particular problem may be assigned a student who needs work beyond the courses scheduled and who is judged competent to carry on supervised research.

Prerequisites: Six hours of advanced work in economics, and consent of instructor, head of department, and dean of college in which student is taking a major.

EDUCATION

The undergraduate prerequisite for a major in education is fifteen hours.

The course requirements for the several administrative certificates, the counseling and guidance certificate, two curricula for teachers in elementary schools, a curriculum for teachers of English, and a curriculum for teachers of social studies are outlined below:

I. Administrative Certificates**A. COUNTY SUPERINTENDENT'S CERTIFICATE**

1. Required courses 18 hours
Ed. 501, 502, 503, 504, 505, 506, 507, 508, 522.
2. Required electives 2 hours
Ed. 435*, 510, 511, 520, 535 and 536.
3. Permitted electives 6 hours
Any of the courses in education open to graduate students.

B. ELEMENTARY PRINCIPAL'S CERTIFICATE

1. Required courses 10 hours
Ed. 501, 504, 506, 507, 522.
2. Required electives 8 hours
From Ed. 415*, 435*, 460*, 490*, 510, 515, 520, 531, 535,
542, and 544 4 hours
Other courses in education open to graduate
students 4 hours
3. Permitted electives 8 hours
Any of the courses in education open to graduate students.

*Undergraduate Courses Open to Graduate Students.

C. SECONDARY PRINCIPAL'S CERTIFICATE

1. Required courses 10 hours
Ed. 501, 505, 506, 508, 522.
2. Required electives 8 hours
From Ed. 415*, 435*, 460*, 490*, 511, 513, 514, 515, 520,
532, 536, 543, 545, 546, 547, 548, 549, 550 4 hours
Other courses in education open to graduate
students 4 hours
3. Permitted electives 8 hours
Any of the courses in education open to graduate students.

II. Teacher-Education Curricula

A. COUNSELING AND GUIDANCE CERTIFICATE

1. Courses in guidance 25 hours
 - a. Required courses
Ed. 490*, 514, 535, 536, 546, 547, 548, 549 and/or 550.
NOTE: Ed. 435* may be substituted for Ed. 535 and
536 if not taken as an undergraduate course.
 - b. Recommended electives
Ed. 513 and 520
2. Education 522 2 hours

B. CURRICULA FOR TEACHERS IN ELEMENTARY SCHOOLS

The two programs of study outlined below are intended for students in elementary education. Program A is designed particularly for students who wish to become better prepared as teachers in elementary schools. The field of study includes courses in child development, the curriculum, and investigations in teaching in the several areas in the elementary school.

Program B provides opportunity for studying the problem involved in teaching atypical children. The emphasis in the program of study is upon aspects of professional education usually referred to as special education. Students wishing to prepare themselves for positions such as a general supervisor of elementary education or a teacher of atypical children should consider the offerings of Program B.

The courses in education and other fields for Programs A and B are as follows:

Program A.

1. Required courses in education..... 17 hours
Ed. 509, 516, 522 8 hours

*Undergraduate Courses Open to Graduate Students.

2. Electives from the following courses:
 minimum 9 hours
 Ed. 415*, 435*, 460*, 465*, 492*, 510, 535, 540, 555, 556,
 557, 570, 571.
3. Electives 6-18 hours
 Courses in the several fields listed below are to be selected
 by students with the approval of the adviser: art,
 education, natural science, English, geography, his-
 tory, home economics, music, political science, psy-
 chology, sociology and speech.

Program B

1. Required courses in education 20 hours
 Ed. 509, 516, 522 8 hours
2. Electives in education and speech 12 hours
 Two of the three combinations of courses listed below
 must be completed:
 Ed. 495* and Ed. 555, or 6 hours
 Ed. 557 and Ed. 558, or 6 hours
 Sp. 418* and Sp. 419* 6 hours
3. Psychology 3 hours
 Psy. 540 3 hours
4. Electives 8-12 hours
 Courses in the several fields listed below are to be selected
 by students with the approval of the adviser: art, edu-
 cation, natural science, English, geography, history,
 home economics, music, political science, psychology,
 sociology, and speech.

C. CURRICULUM FOR TEACHERS OF ENGLISH IN SECONDARY SCHOOLS

This program is intended to promote the development of master teachers of English in junior and senior high schools. It provides an opportunity for students to distribute their study between courses in English and education. The programs of study are planned for individuals.

1. Required courses 21 hours
 Ed. 441*, 445*, 522, 548, 552 9-14 hours
 Eng. 455*, 512, 530, 531 9-12 hours
 (Eng. 530 or Ed. 522 may be taken, but not both courses.)
2. Electives in English 9-12 hours
3. Electives 0-6 hours
 (Elective courses are to be selected by students with the
 approval of the adviser.)

*Undergraduate Courses Open to Graduate Students.

D. CURRICULUM FOR TEACHERS OF SOCIAL STUDIES IN SECONDARY SCHOOLS

For the purpose of this program social studies includes economics, geography, history, political science, and sociology. This curriculum is designed to meet the needs of teachers who wish to distribute the work for the master's degree over the general area of the social studies. Only teachers with at least twenty-four hours of undergraduate work in this general area are eligible to pursue this curriculum. Graduate students who wish to specialize in a particular social science field and those who plan to do work later for the doctorate should not follow this curriculum. They should choose a major and minor in individual related fields.

The general pattern is as follows:

1. Professional and specialized courses 8 hours
 - Ed. 567, Methods and Materials in
Teaching Social Studies 3 hours
 - Ed. 548 Advanced Studies of Human Adjustment 3 hours
or
 - Ed. 516 Advanced Studies in Child Development 3 hours
 - Ed. 522 Research Methods and Problems 2 hours
2. Social Studies and electives 28 hours
 - a. Twelve hours shall be distributed equally in two of the following fields: economics, geography, history, political science, and sociology.
 - b. The rest of the work may be distributed among the five fields in accordance with the needs and interests of the student, provided: First, that not more than fifteen hours may be counted in any one of the social studies for credit; and, second, at least six hours must be earned in each of the social studies in undergraduate and graduate work combined for graduation.
 - c. After the minimum requirements in social studies are met, electives may be chosen from the following:
 - Art 401*, History of Art to 1400 A. D.
 - Art 402*, History of Art from 1400 to the Present
 - Philosophy 410*, The Philosophical Sources of American Culture
 - Philosophy 419*, Survey of Religious Thought in the Western World
 - Education 441*, Literary Materials for English and the Social Studies in the Secondary School

Courses Open to Juniors, Seniors, and Graduate Students**415.* History of Modern Education. Two or three hours.**

This course is an attempt to reveal our debt to the ancient Hebrews, Greeks, and Romans. Special emphasis is placed upon the movements since the beginning of the Renaissance. The course is designed so as to present the development of educational theory and practice.

445.* Tests and Measurements. Two or three hours.

This is an introductory course in which the history, basic philosophy and elementary statistical devices necessary for evaluating pupil progress are studied. New type tests will be constructed and a study made of standard tests on both elementary and secondary levels. Attention will be given to the use of technique of evaluation for purposes of pupil guidance. Considerable practice will be given in giving, scoring, and interpreting the results of tests on both elementary and secondary levels.

441.* Literary Materials for English and the Social Studies in the Secondary School. Three hours.

This course is designed to acquaint English teachers with a variety of literary materials suitable for junior and senior high-school students and to familiarize teachers of the social studies with literary selections which serve to illuminate typical subjects of study in this field. Emphasis will be placed on the actual reading and study of these materials.

445.* Teaching Reading in the Secondary School. Three hours.

The purpose of this course is to prepare teachers of all the content fields to participate in a developmental reading program in high school. Attention will be given to diagnosis of difficulties, grouping for differentiated instruction, and corrective techniques. Demonstrations of teaching procedures used in the various content fields and in corrective classes will be a part of the course.

460.* Philosophy of Education. Two or three hours.

Contemporary educational thinking and practice in relation to the principal types of philosophy now current—realism, idealism, and pragmatism. Educational literature is examined for evidences of the influences of philosophical points of view.

465.* Audio-Visual Aids in Learning. Two or three hours.

This course strives to develop an attitude toward and a skill in the preparation and use of audio-visual aids to learning. A study of the use of blackboards, bulletin boards, flash cards, charts, graphs, field trips, models, specimens, maps, film strips, motion pictures, slide film and the operation of the major type of projectors form the major portion of this course.

*Undergraduate Courses Open to Graduate Students.

- 490.* Basic Course in Principles and Practices of Guidance.** Two or three hours.

A study of the principles, objectives and practices of guidance which will give the beginning counselor or teacher an over-all picture of the guidance program and the part the counselor and teacher play in its development, and how such a program will aid the teacher in teaching boys and girls.

- 491.* Workshop in Supervision.** One to three hours.

Designed for majors in Education and principals and supervisors of schools. A study of practical problems and principles involved.

- 492.* Workshop.** The Teaching of Reading (summer only). One to three hours.

A practical course designed to give the teacher an opportunity to discuss and work on her own reading problems. Time spent in the course will be approximately evenly divided as to lecture, demonstration and individual work. The teacher may choose to work in the primary, intermediate, or high school field under the leadership of a qualified instructor.

- 495.* Clinical Practice in Reading Instruction.** Two or three hours

One hour daily. Conference daily to be arranged. Admission by approval of instructor.

Diagnosis of difficulties, plans for corrective treatment, and actual work with pupils who have difficulties with reading.

Courses Open to Graduate Students Only

- 501. General School Administration: Basic Course.** Two hours.

In this course such topics as the following will be studied: Educational policy; state and national participation in school administration; state, county, and local boards of education; relation of schools to other social agencies; community relations; organization of staff; such staff problems as training, selection, assignment, tenure, promotion, salaries, absence, retirement, and professional ethics; sources of school statistics; school census; pupil attendance; provision for pre-school and adult education.

- 502. General School Administration: Financial Aspects.** Two hours.

A continuation of Ed. 501, which is prerequisite. A study of business administration of schools will be made in this course, using such topics as the following: Basic principles of school finance; taxation for school support; ability of the community to pay; school bonds; budgeting; accounting and auditing; economy procedure; payroll management; insurance.

- 503. General School Administration: Plant and Equipment.** Two hours.

A continuation of Ed. 501, 502; Ed. 501 is prerequisite. In this course an intensive study will be made of the school plant, equipment and supplies. Topics to be studied will include: planning school buildings; architectural service; maintenance and upkeep; custodial care; transportation equipment and its use.

*Undergraduate Courses Open to Graduate Students.

504. Elementary School Administration. Two hours.

A careful study of the elementary school principalship, and the duties and responsibilities attaching to it. Relations between superintendent, principal, teachers. Study of the elementary school itself.

Taken with or following Ed. 501.

505. Secondary School Administration. Two hours.

A careful study of the secondary school principalship, and the duties and responsibilities attaching to it. Relations between the superintendent, principal, teachers. Study of the secondary school itself.

Taken with or following Ed. 501.

506. Supervision of Instruction: Basic Course. Two hours.

A study of principles of supervision and techniques used in supervising the instructional work of the public schools.

507. Supervision of Elementary School Instruction. Two hours.

This course is an application to elementary school subjects of the principles and techniques studied in Ed. 506.

Taken with or following Ed. 506.

508. Supervision of Secondary School Instruction. Two hours.

This course is an application to secondary school subjects of the principles and techniques studied in Ed. 506.

Taken with or following Ed. 506.

509. The Teacher and School Administration. Three hours.

A study of the nature of school organization with particular emphasis upon the structure of the West Virginia School System. The relationships which should exist between teacher, principal, fellow teachers, and the community will be explored.

510. Curriculum-making Laboratory: Elementary Schools. Two hours.

Operating on the workshop idea this course avoids systematic lecture, readings, and discussions. Members of the class will be expected to acquaint themselves with the best current books on curriculum-making, and with typical curricula. They will do a good deal of work, cooperatively and individually, in curriculum construction.

511. Curriculum-making Laboratory: Secondary Schools. Two hours.

Follows the plan of Education 510 but is concerned with the secondary school instead of the elementary school.

513. Organization, Administration and Development of Guidance Programs. Two or three hours.

This is a study of problems met in planning for and the inauguration of a guidance program in elementary and secondary schools.

514. Counseling Techniques. Two or three hours.

An intensive study of the techniques used by the counselor in counseling, especially the mechanics of the interview, with emphasis upon scheduling the interview, initial interview, and follow-up interviews with the counselee and parents.

515. History of Education in the United States. Two hours.

A study of the development of the school systems of the United States. This course presupposes that a general survey course in the history of education such as Education 415 has been taken by the student. A careful detailed study will be made of educational beginning, expansion, and refinement from the colonial era to the present.

516. Advanced Studies in Child Development. Three hours.

An advanced study of the nature of growth and the environmental factors that affect it, with a view to helping teachers understand children.

517. Field Course in Current School Problems. Three hours.

This is a field course carrying residence credit. It is concerned with the investigation of current problems confronting local schools or school systems. The content of the course will be determined by the needs of the students and the demands of the local situation.

518. Field Course in Current School Problems. Three hours.

This course is a continuation of Education 517, which is a prerequisite.

520. Statistical Methods in Education. Two hours.

Techniques of computing statistical summaries of extended data: averages, dispersions, correlations; graphic methods; interpretation of published statistical tables.

522. Research Methods and Problems. Two hours.

Approximately half of this course is devoted to a study of investigative methods and techniques; for the remainder of the course the student applies these methods and techniques to individual problems in seminar manner.

Required of all graduate students majoring in education.

531. Psychology of Elementary Subjects. Two or three hours.

Formerly Ed. 302. Analysis of the mental processes involved in the study of the several elementary school subjects.

532. Psychology of Secondary School Subjects. Two or three hours.

Formerly Ed. 402. Analysis of the mental processes involved in the study of the several secondary school subjects.

535. Techniques of Evaluation in the Elementary School. Two hours.

This is a graduate course following a course such as Education 435*. A deeper study and more practice will be required.

536. Technique of Evaluation in the Secondary School. Two hours.

This does for the secondary teachers what Education 535 does for those in elementary education. See note following that course.

540. Current Literature of Education. One to three hours.

This is an extensive, rather than intensive, reading course. Each student reads and reports upon a group of the outstanding recent books on education. From a provided list the student selects his reading material, avoiding such books as relate to topics of which his other courses treat. Students who register in this course for less than three hours credit may not register for Education 540 a second time.

542. Seminar on Problems of Administration of Elementary Schools.

Prerequisite: Education 501 and 504.

543. Seminar on Problems of Administration of Secondary Schools.

Prerequisite: Education 501 and 505.

544. Seminar on Problems of Supervision of Elementary Schools.

Prerequisite: Education 506 and 507.

545. Seminar on Problems of Supervision of Secondary Schools.

Prerequisite: 506 and 508.

546. Individual Inventory Techniques. Two or three hours.

An intensive study of the techniques used in the collection of data, including test results, for the counselee's cumulative record; the recording of data; and the interpretation and use of tests and other data by the counselor and teacher.

547. Occupational Information Techniques. Two or three hours.

An intensive study of the techniques used in the selection, filing, and use of printed, bound and unbound materials, and other information about the various occupations and professions and the qualifications they require. This is to be at the level at which counseling is to be done.

548. Advanced Studies of Human Adjustment. Two or three hours.

A study of the psychological foundations of personality development and the principles of mental hygiene as they are related to adjustment to the problems of everyday life. Current publications are investigated in these fields and laboratory or clinical practice will supplement these studies.

549-550. Seminar in Counseling. Three to six hours.

Individual inventory, training opportunities, follow-up studies, and placement procedures with practice in the field.

An advanced study of counseling tools and techniques with emphasis upon problem categories and patterns as they are related to the psychology of individual differences (differential psychology).

Prepared case studies, based upon laboratory work in counseling, will furnish the basis of critical evaluation of tools and techniques. Laboratory practice will be done at the educational level at which each student expects to serve as a counselor.

552. Problems and Investigations in the Teaching of English in the Junior and Senior High School. Three hours.

Emphasis will be placed on particular problems in the teaching of English rather than on general techniques. Special attention will be given to recent investigation and experiments.

555. Teaching of Reading. Three hours.

It is the purpose of this course to make the student familiar with present techniques and practices in the teaching of reading and current material in the field. Topics to be covered will include the development of fundamental reading habits and attitudes, oral and silent reading instruction, discussion of diagnostic and remedial instructional material and evaluation of the results of the reading program.

556. Teaching of Language Arts. Two hours.

This course deals with the literature in the field and a comparison of current methods and materials in the teaching of handwriting, spelling, and oral and written composition. Consideration is given to analysis and correction of basic difficulties and correlation of language arts with other activities.

557. Teaching of Arithmetic. Three hours.

The course is intended to make the student acquainted with the materials of instruction which are available and to give a knowledge of the best literature on the teaching of arithmetic. Topics will include: the history of numbers, number experiences of children, the fundamental operations and their presentation, denominate numbers, fractions, percentage, drill, problem solving, diagnostic procedures and remedial instruction, and arithmetic testing.

558. Clinical Practice in Arithmetic. Two or three hours.

Students will have an opportunity to work with clinical cases under guidance; diagnosis, planning and putting into operation an instructional program in arithmetic for a limited number of pupils; evaluation of the program.

Prerequisite: Education 557.

567. Methods and Materials in Teaching Social Studies. Three hours.

A survey of various methods used in successful social studies teaching, together with suggestions for the procurement and use of pertinent materials. Course is recommended for both in-service and prospective social studies teachers. Describes, analyzes, and evaluates teaching methods with emphasis on the interrelationships of all methods. Types of materials ranging from regular textbooks and workbooks to visual aids are considered; attention is given to their sources as well as to their use.

570. Problems in Teaching Social Studies in the Elementary School. Three hours.

This course provides students an opportunity to study the materials and procedures for teaching social studies in the elementary school. Students will work individually and in groups on various problems involved in the teaching of social studies.

571. Problems in Teaching Science in the Elementary School. Three hours.

This course provides an opportunity for students to familiarize themselves with the problems and methods of teaching science in the elementary school. Students will work individually and in groups on various problems related to the teaching of science.

580. Thesis or Problem Report I. One to three hours.

581. Thesis or Problem Report II. One to three hours.

SAFETY EDUCATION

485.* Driver Education and Training. Two hours.

A course in materials and methods in teaching driver education and training to students preparing to teach in high schools.

Prerequisite: Ability to drive an automobile and the possessor of a West Virginia driver's license. Non-drivers with the instructor's permission may enroll without credit for the laboratory section of this course in order to learn to drive an automobile. Two periods of classroom instruction and one hour laboratory period per week for the semester.

ENGLISH

English 530 is required of all candidates for the Master's degree in English, beginning September, 1948.

Courses Open to Juniors, Seniors, and Graduate Students

410.* Studies in English Literature of the 18th Century. Three hours.

An intensive study of a selected group of writers against the philosophic and artistic backgrounds of the century.

411.* Chaucer. Three hours.

A study of Chaucer's England. Readings will be in the original language, with emphasis on *Troilus and Criseyde* and the *Canterbury Tales*.

444.* Emerson-Poe-Whitman. Three hours.

An intensive study of Emerson as philosopher, Poe as journalist, and Whitman as poet.

445.* Robinson and Frost. Three hours.

An intensive study of two masters of Modern American poetry.

446.* Drama of the Restoration and 18th Century. Three hours.

A survey of the drama from 1660 to Sheridan, in relation to the social life of the period.

*Undergraduate Courses Open to Graduate Students.

447.* Romantic Poets. Three hours.

A study of Wordsworth, Coleridge, Keats, Shelley and Byron. The background of the romantic movement will be given. Extensive readings in the major poets, papers, and oral reports will be required.

455.* Literary Criticism. Three hours.

The principles and history of literary criticism, with emphasis upon the major literary forms.

Courses Open To Graduate Students Only**500. Shakespeare.** Three hours.

An intensive reading of most of Shakespeare's plays. Problems of scholarship relating to Shakespearean text, biography, theatrical conventions.

501. Folk and Popular Literature. Three hours.

A study of the forms in which the literary impulse of the people is expressed—myth, epic, saga, fairy tale, ballad, etc.—with reference to the customs and ideals of each age and the influence of traditional types and characters upon subsequent literature and education.

512. Study of Poetry. Three hours.

The development of the principal forms, types, themes, and prosody, in world poetry, with special attention to English and American poetry.

513. Milton. Three hours.

A study of the English poetry and prose of John Milton.

514. The Victorian Novel. Three hours.

A study of the English novel during the nineteenth century, covering the Brontës, Dickens, Thackeray, Eliot and others.

515. Studies in the Victorian Poets. Three hours.

Tennyson, Browning, and Hardy are the major figures studied in the course.

516. Essayists of the Nineteenth Century. Three hours.

A study of the familiar and critical essays and longer prose works of Lamb, Macaulay, Carlyle, Ruskin, Pater, Stevenson, and others.

520. Contemporary Drama. Three hours.

An intensive study of major English and American dramatists with emphasis on Shaw and O'Neill.

521. Contemporary Novel. Three hours.

Comparative studies in the work of a few major figures in the twentieth century novel.

*Undergraduate Courses Open to Graduate Students.

530. Materials and Methods of Research. Three hours.

Training in scholarly research, bibliography, preparation of reports and theses in the field of English. Completion of a practical problem in research. Required of all candidates for the M. A. in English, beginning September, 1948.

531. Historical English Grammar. Three hours.

The construction of the English language today in the light of the historical development of grammatical forms and usages.

532. History of English Words. Three hours.

A study of the present day English vocabulary in the light of the origin and development of English words, with attention to pronunciation, spelling, and meaning change. An introductory course in philology and semantics.

544. The American Novel. Three hours.

A survey from the 18th century to modern times, with special emphasis upon Hawthorne, Melville, and Henry James.

580. Thesis Writing. One to three hours.**581. Thesis Writing.** One to three hours.

GEOGRAPHY

Courses Open to Juniors, Seniors, and Graduate Students**401*. Historical Geography of the United States.** Three hours.

Survey study is made of early settlement along the Atlantic Coast, the westward movement through Appalachia, the spread of population, the development of industry, agriculture, and transportation throughout our nation, and the development of the Far West.

405.* World Political Geography. Three hours.

Selected countries of the Americas, Europe, and Asia are studied with reference to the influence of geographic factors on international relations. Special consideration is given to the place of the United States in world affairs.

406.* Geography of Brazil. Two hours.

A study of the agriculture, transportation, and trade of Brazil in relation to the natural environmental conditions of that country.

407.* Geography of Argentina. Two hours.

A study of the agriculture, industry, transportation, and trade of Argentina in relation to the natural environment of that country.

408.* Geography of Mexico. Two hours.

A study of the agriculture, industry, transportation, and trade of Mexico in relation to the natural environment of that country.

409.* Geography of Canada, Newfoundland, and Labrador. Two hours.

A study of the relation of the major economic activities of these areas, with particular emphasis on agriculture, industry, and mining, as related to the natural environment.

*Undergraduate Courses Open to Graduate Students.

410.* Urban Geography. Three hours.

A study of the geography of cities with special attention given to larger urban centers of the United States. Cultural points relating to city grouping, residential and commercial planning within the individual city, transportation network layout, and industrial center planning are studied in checking the natural-cultural relationships observed in each urban setting. Theory and practice are recognized in a test study made in or near Huntington.

412.* Geography of Soviet Lands. Two hours.

Natural environmental items are used to explain economic development of modern Russia. Areal expansion is checked with reference to transportation and settlement. Agricultural, grazing, and forest activities are studied with reference to climate and soils, and industries are located with reference to access to raw materials and markets.

413.* Geography of the British Isles. Two hours.

Climate, soils, land forms, minerals, and location are examined in order to explain British Isles and industry, mining, transportation, and trade.

415.* Geography of India. Two hours.

Agriculture, mining, industry, and transportation problems of both India and Pakistan studied in order to check probable population shifts, as well as to understand the industrial and agricultural developments within this sub-continental area.

420.* Field Geography of West Virginia. Three hours.

Type areas are studied intensively for the purpose of understanding how activities such as lumbering, mining, agriculture, and transportation have made adaptations to these areas.

Students registering in this course will spend at least two weeks in the field under the direction of the instructor.

Courses Open to Graduate Students Only

501. Problems in the Geography of the Far East. Three hours.

A study of the agriculture, industry, transportation, and trade of Java, the Philippines, and selected regions in China, Japan, and Siberia.

502. Problems in the Geography of Europe. Three hours.

Studies are made in the agriculture, mining, industry, transportation, and trade of selected regions of Europe. Class members may study the geography of a region within the continent or survey the scope of an economic activity over a large area of the continent.

503. Problems in the Geography of North America. Three hours.

A study of the relationship of human economic activities of selected regions to the natural environment of North America.

*Undergraduate Courses Open to Graduate Students.

504. Problems in the Geography of Latin America. Three hours.

An introductory study of general geographical problems of Latin America will be followed by individual study by each student of one of the problems advanced in the general study.

505. Geography in World Political Affairs. Three hours.

Class members check international relations of the United States, the British Empire, Russia, and China, so that they will appreciate the significance of geographic items and their effect on the creation of national policies.

506. Field Problems in the Geography of the Tri-State Area. Three hours.

A study will be made of a small geographical region within the tri-state area of West Virginia-Kentucky-Ohio within a few miles of Huntington. Students will study conditions within the field, check available documentary material, and prepare a paper on their findings. Mapping and photography will be used and personal interviews will be conducted when advisable.

507. Problems in World Economic Geography. Three hours.

Each student will study some major subject of world trade such as "World Trade and Production of Coal" as related to human and natural factors in production and marketing areas concerned with this product.

508. Problems in the Geography of Africa and Australia. Three hours.

Students will be given an opportunity to study selected geographical regions within the two continents, special attention being given to southeastern Africa, French northwestern Africa, the Katanga, and southeastern Australia.

509. Geographical Research. One to three hours.

Fields of study will be established in this course of interest to the individual student, with readings and conferences to facilitate the work. The course is intended primarily for those students wishing to read in fields of geography not stressed in other courses offered by the department.

580. Thesis or Problem Report I. One to three hours.**581. Thesis or Problem Report II. One to three hours.**

HISTORY

The undergraduate prerequisite for a history major is six hours of American history and six hours of European history. The undergraduate prerequisite for the minor is six hours. The minimum graduate requirement for the major is eighteen hours.

Courses Open to Juniors, Seniors, and Graduate Students**402.* American Diplomacy. Three hours.**

The principles and policies guiding American diplomacy in its various stages of development and methods commonly employed and the personalities of leading American diplomats. Formerly History 350.

421.* The Era of the Renaissance and the Reformation. Three hours.

A study of the changes, especially cultural, in Western Europe during the three centuries, 1300-1600.

422.* The French Revolution and the Napoleonic Era. Three hours.

A study of the causes (1715-1789), sequences (1789-1799), and consequences (1799-1815) of the French Revolution.

425.* European History, 1814-1914. Three hours.

A seminar on 19th century Europe.

426.* European History, 1914 to the Present. Three hours.

A continuation of History 425*. Lectures, reading and reports.

427.* Russia in the 19th and 20th Centuries. Three hours.

A study of the life and institutions in Russia under the Czars that led to the revolution and the present regime with emphasis on the recent internal developments and their influence on the modern world.

Courses Open to Graduate Students Only**502. Constitutional History of the United States. Three hours.**

A study of the origins and development of American constitutional principles and practices. (503 and 504 discontinued.)

505. Social and Economic Problems of the American Colonies. Three hours.**506. Social and Economic Problems of the Early National Period in America. Three hours.****507. The Old Northwest. Three hours.**

The study of the problems in connection with the settlement, distribution of land, organization of government, fur trade, conflict with the Indians, and the early social and economic adjustments.

508. The Civil War and Reconstruction, 1850-1877. Three hours.

The abolition movement, king cotton supremacy, secession, social and economic life during the Civil War, and the problems connected with the reconstruction and the transition from agricultural to industrial economy.

*Undergraduate Courses Open to Graduate Students.

509. Problems of Recent American History, 1877 to Present. Three hours.**510. Readings in History.** Two or three hours.

Any student, with the approval of the chairman of the Department, may take this course, which will enable the student to do extensive reading in the field of his special interest. The student will be assigned for supervision to the teacher in whose special field the student wishes to read.

511. Methods and Problems of Research in West Virginia History. Three hours.

The first part of the course is a study of the methods and techniques of historical research. The second part will be research problems related to the history of West Virginia in which the student uses the information and skills presented in part one.

512. American Leaders. Three hours.

A study of the contributions of representative American leaders to American development to 1865.

513. History. Hispanic American History. Three hours.

A survey course, a sketch of the colonial period, a study of the movement for independence and the establishment of new governments, a survey of each of the countries during recent years, emphasis upon recent commercial and diplomatic relations with the rest of the world, especially the United States.

514. History. The American Revolutionary Period. Three hours.

A detailed study of the immediate causes, the conduct and results of the Revolution, followed by a study of the establishment of the new state governments, the government under the Articles of Confederation, and adoption of the Constitution.

515. American Leaders. Three hours.

A study of the contributions of representative American leaders to American development since 1865.

517. History. Trans-Allegheny Frontier. Three hours.**521. Nineteenth Century England.** Three hours.

Policies of outstanding leaders such as Canning, Peel, Palmerson, Disraeli, Gladstone, and Salisbury; growth of democracy; reform movements; the Irish problem. Discussion, reports, and term papers.

527. Problems in Early Modern European History. Three hours.

A course for research into certain phases of the history of Europe during the century and a half from 1500 to 1650.

528. Problems in Recent European History. Three hours.

Special investigation into certain historical events in European history from 1871 to 1914 that appear to have aided in causing the World War.

578. Historical Research. Two or three hours.

This course provides an opportunity for independent research. Students are admitted with the approval of the Chairman of the department and assigned to the teacher in whose special field the student is to work. Sufficient attention will be given to methods and techniques to enable the student to carry out his project.

580. Thesis or Problem Report I. One to three hours.**581. Thesis or Problem Report II.** One to three hours.

HOME ECONOMICS

Courses may be taken with approval of student's adviser and instructor in the course.

Courses Open to Juniors, Seniors, and Graduate Students

400.* Consumer Buying. Three hours.

Opportunities and responsibilities of the consumer; problems in purchasing specific household commodities and the relation of advertising to the buying of these products; legislation in branding and labeling. Discussions and reports on individual buying problems.

420.* Mechanics of the Household. Three hours.

A study of the principles involved in the selection, operation, care and arrangement of household equipment. The student is expected to apply those physical, chemical and other scientific facts and principles that have a bearing on household equipment.

440.* Nutrition in the Home and School. Three hours. Formerly 340.

A course for teachers and any person interested in the home and school. A study of the fundamental principles of human nutrition as it relates to the individual and the family. An intensive study of the school lunch program; demonstrations and discussions of teaching procedures. Formerly Home Economics 340.

MATHEMATICS

Courses may be taken with approval of student's adviser and instructor in the course.

427.* Advanced Calculus. Three hours.

The number system; theory of limits; infinite sequence; functions of real variables; derivatives, partial differentiation, with applications to differential geometry; maxima and minima of functions of several variables.

Prerequisite: Mathematics 326.

*Undergraduate Courses Open to Graduate Students.

428.* Advanced Calculus. Three hours.

A continuation of 427. Theory of definite integrals, multiple integrals, line and surface integrals, Green's theorem, transformation of multiple integrals, improper integrals, infinite series.

Prerequisite: Mathematics 427.

430.* Vector Analysis. Three hours.

The algebra of vectors, differential and integral calculus of vectors. Application to geometry, physics, and mechanics.

Prerequisite: Mathematics 326.

435.* Differential Equations. Three hours.

An exposition of methods used in solving ordinary differential equations, with applications to geometry, physics, and mechanics.

Prerequisite: Mathematics 326.

436.* Partial Differential Equations. Three hours.

An exposition of methods used in solving partial differential equations with applications to mathematical physics.

Prerequisite: Mathematics 435.

445.* Introduction to the Theory of Statistics. Three hours.

The theory and application of mathematical statistics, treating such topics as averages, measures of dispersion and skewness, frequency distributions, frequency curves, and correlation. Applications to miscellaneous practical problems.

Prerequisites: Mathematics 325.

450.* Fundamental Concepts and History of Mathematics. Three hours.

A study of the logical foundations of algebra, geometry, and analysis as an approach to an answer to the question "What is mathematics?" This will involve an analysis of the meaning of "mathematical system," with illustrations from Euclidean and non-Euclidean geometry, algebra, and analysis. This discussion will be coordinated with the historical development of Mathematics from ancient to modern times.

Prerequisite: Senior or graduate standing.

MUSIC

Courses may be taken with approval of student's adviser and instructor in the course.

Courses Open to Juniors, Seniors, and Graduate Students

403.* Advanced Piano Class. Two hours.

Advanced training in technical and theoretic study with attention to interpretation and repertoire.

*Undergraduate Courses Open to Graduate Students.

Courses Open to Graduate Students Only**570. Advanced Materials and Methods (Grades 1-6).** Three hours.

A comprehensive survey of available materials in singing, reading, listening rhythm and creating program of school music for the elementary grades, and use of such materials in the methodology of teaching.

575. Creative Activity for Children. Three hours.

Ways of using creative activity in the music program, methods of aiding creative song writing, harmonization rhythms, instrument construction, instrumental expression, dramatization, and program building.

PHILOSOPHY

Courses may be taken with approval of student's adviser and instructor in the course.

Courses Open to Juniors, Seniors, and Graduate Students**410.* The Philosophical Sources of American Culture.** Three hours.

A study of a select group of ancient, medieval, and modern thinkers who are directly influential in determining the basic American beliefs and ideals in the realms of religion, science, morality, politics, economics, and education. This course is open to graduate students unconditionally.

419.* Survey of Religious Thought in the Western World. Three hours.

This course will trace the many directions which the philosophy of religion has taken in the western world, including an analysis of the principal religious philosophies of the present.

POLITICAL SCIENCE**Courses Open to Juniors, Seniors, and Graduate Students****405.* International Relations.** Three hours.

Formerly Pol. Sci. 401. An examination of the forces motivating the conduct of nations in their relations, with special consideration of the rise and development of international institutions. The approach to this study is economic and historical as well as political.

Prerequisites: Pol. Sci. 201, 202.

406.* Contemporary World Politics. Three hours.

Formerly Pol. Sci. 402. A study of present day currents in international affairs, with an examination of the underlying motives of national states. The place of international organizations in the post-war world is given special attention. The current opinion of international observers, both American and foreign, is considered.

Prerequisites: Pol. Sci. 201, 202.

*Undergraduate Courses Open to Graduate Students.

407.* Oriental Civilization and Politics. Three hours.

The semester is spent on contemporary political, social, and economic conditions in Japan, China, and India.

409.* Parliamentary Governments. Three hours.

An analysis of the origin, development, structure, and current operation of the English, French, Swiss, and other selected democratic governments.

410.* Modern Dictatorships. Three hours.

A study of the ideology, structure, and operations of the totalitarian states, with an effort to compare their methods with democratic procedure.

420.* State Administration. Three hours.

It is the purpose of this course to outline the numerous activities in which each of the forty-eight states may be expected to engage today, and to propose ways of organizing suitable agencies for the proper administration of these services. The actual working of these various departments will be discussed and studied from the states' reports.

425.* Early Political Theory. Three hours.

A historical survey and examination of the political theories from the time of Plato to Burke, with an effort to show their effect on modern political institutions.

426.* Recent Political Theory. Three hours.

A study of the ideas of leading recent political philosophers with particular emphasis on the basic ideologies of the modern democratic and totalitarian states.

Courses Open to Graduate Students Only

500. Trends in American Civilization. One to three hours.

The readings and lectures in this course aim to assist the student in understanding the political, economic, social, educational, and spiritual trends in American civilization.

This course is intended for teachers who are not interested in specialized courses in political science.

501. Readings in Political Science. One to three hours.

Special lines of reading will be outlined in this course to meet the needs and interests of individual students. Regular conferences will be held.

The course is intended for teachers who are not interested in specialized courses, but will profit by wide reading on topics closely related to their needs.

503. Problems in American National Government. Three hours.

A critical analysis of a selected group of contemporary problems, procedures, and trends in American National Government. The course is recommended for teachers.

*Undergraduate Courses Open to Graduate Students.

504. American Political Ideas. Three hours.

A study of the political ideas of representative American thinkers such as Roger Williams, William Penn, Samuel Adams, Thomas Paine, James Madison, Benjamin Franklin, Alexander Hamilton, Thomas Jefferson, John C. Calhoun, Daniel Webster, Abraham Lincoln, Theodore Roosevelt, Woodrow Wilson, Herbert Hoover, Max Lerner, Franklin D. Roosevelt.

505. International Law. Three hours.

A case study of the laws of war and peace as related to their historical development, principles and the evolution of international organization.

506. American Constitutional Law. Three hours.

A case study of constitutional law as related to the structure of American government, giving some attention to the historical background and the conflict of political, social, and economic forces.

511. The Legislative Process and Legislative Procedure. Three hours.

Principles, procedures, and problems of statute law-making in the United States, followed by a critical study of current acts and pending problems before Congress and the state legislature.

515. Labor Legislation. Three hours.

A course devoted to an examination of the theory, organizations, procedure, content, and effect of labor legislation in the state, national, and international sphere.

517. National Administration. Three hours.

Principles of administrative law of the United States are reviewed, followed by a study of the organization and function of administrative departments, boards and commissions in their relation to other branches of the government.

521. Municipal Administration. Three hours.

A study of principles and methods of municipal administration in the United States, including such topics as city planning, zoning, engineering, health, housing, finance, police administration, crime, transportation, playgrounds, poor relief.

523. Administrative Law. Three hours.

Respective functional provocative procedures in theory in administration are studied and followed by a case study of administrative legal determinants.

524. Administration of Justice. Three hours.

Organization of courts in the United States, trends in the reorganization of judicial machinery, improvement of judicial procedure, socialization of the law, and professional ideals of the bar.

548. Problems in West Virginia Government. Three hours.

A critical study of problems of government in the State of West Virginia conducted through readings, lectures, and reports.

- 550. Seminar. Credit to be arranged.** To be offered in connection with courses listed above.
- 551. Seminar.** A continuation of 550, in order to give students a better opportunity to perfect research techniques. Credit to be arranged.
- 580. Thesis or Problem Report I.** One to three hours.
- 581. Thesis or Problem Report II.** One to three hours.

PSYCHOLOGY

It is recommended that the student have courses in allied fields, such as sociology, neurology, history of (or contemporary schools in) philosophy. A knowledge of chemistry, physics, and mathematics will prove advantageous.

Courses Open to Juniors, Seniors, and Graduate Students

- 406.* Intelligence: Theories and Development.** Three hours.
A study of the nature of intelligence, individual differences in intelligence, mental levels; significance and methods of measuring intelligence; relation of intelligence to social efficiency.
Prerequisite: Six hours of psychology.
- 416.* Psychology of Learning.** Three hours.
A review and critical evaluation of experimental studies and generalizations in the field of learning.
Prerequisite: Six hours of psychology.
- 418.* Psychology of Personnel Techniques.** Three hours.
A course designed to equip the student with a working knowledge of basic techniques in personnel administration, and with an understanding of the psychological principles and methods involved. Deals with problems of employment procedures, training programs, personnel records, and human relations in business and industry.
Prerequisite: Psychology 101 or 305.
- 420.* Mental Measurements.** Three hours.
Instruction and practice in the use of the Stanford-Binet Scale and other tests; evaluation of test results; classification of individuals according to mental level.
Prerequisite: Nine hours of psychology or consent of instructor.
- 421.* Psychological Tests.** Three hours.
Instruction and practice in the use of group tests of intelligence and abilities, and in individual and group tests of interests and personality; evaluation of test results.
Prerequisite: Psychology 420* or consent of instructor.
- 460.* History and Systems of Psychology.** Three hours.
A study of the development of modern psychology and of the schools which have been most prominent in the development of American psychology.
Not open to students who have had Psychology 461*.

*Undergraduate Courses Open to Graduate Students.

Courses Open to Graduate Students Only**503. Psychology of Exceptional Children. Three hours.**

A study of child nature, innate tendencies, causes of maladjustment, behavior problems in home, school, and society in general. Consideration will be given to individual differences, motivation, speech disorders, delinquency, lefthandedness, psychopathy, and other deviations. Remedial measures emphasized.

Prerequisite: Six hours of psychology or consent of instructor.

506. Psychology of Mental Deficiency. Three hours.

A study of classes and levels of mental deficiency; causes, prevention, training, adjustment, and institutional care. Clinics at institutions.

Prerequisite: Six hours of psychology.

508. Psychopathology. Three hours.

A study of mental abnormalities and related phenomena, including hysteria, amnesia, phobias, neurasthenia, hypnosis, dreams, multiple personality, and others. Causes and prevention of development of abnormalities will be given special attention. Clinics at institutions.

Prerequisite: Six hours of psychology.

514. The Psychology of Personality. Three hours.

A course dealing with the factors involved in the development of the mature personality, with an analysis of the structure of personality. Also a critical review of the methods used in measuring personality traits, with practice in the use of certain of those methods.

Prerequisite: Six hours of psychology.

520. Clinical Psychology: Institutional Case Techniques. Three hours.

A practical laboratory study of mental and behavior cases in the mental hospital. Intensive study and training in administration and interpretation of clinical tests, psychological diagnosis, and preparation of clinical reports.

Prerequisites: Psychology 420*, 421*, and 508.

521. Clinical Psychology: Non-Institutional Case Techniques. Three hours.

Intensive study and practice of psychological clinic procedures in dealing with mental and behavior problems of children and non-institutionalized adults. Administration and interpretation of clinical tests, obtaining pertinent personal and family history data, preparation of the clinical report.

Prerequisites: Psychology 420*, 421*, 506, and 508.

523. Advanced Experimental Psychology. Two to three hours.

Laboratory research on special problems. Reading and discussion of literature in experimental psychology.

Prerequisite: Three hours of Experimental Psychology or consent of instructor.

540. Psychological Test Techniques. Three hours.

Instruction and practice in the use of the Stanford-Binet Scale, performance tests and group tests of intelligence. Combines and condenses the work of Psychology 420* and 421* for students in special curricula. Not open to majors in psychology.

Prerequisite: Consent of Instructor.

580. Thesis or Problem Report I. One to three hours.**581. Thesis or Problem Report II.** One to three hours.**590. Seminar.** One to three hours.

Research and reports on topics in one or more of the following fields: experimental, clinical, systematic, abnormal, applied, and others.

591. Seminar. One to three hours.

Continuation of Psychology 590. Not more than four hours of credit may be earned in seminars.

SOCIOLOGY

It is recommended that the undergraduate courses include a basic principles course, a course in social origins, one in social institutions, and a course in one of the fields of social disorganization. In addition, the student must present twelve hours of credit in two or more of the following subjects: history, political science, economics, and psychology. For a minor a basic principles course is required.

Courses Open to Juniors, Seniors, and Graduate Students**401.* Population.** Three hours.

The problems of population movements, immigration, and assimilation. Studies of population growth and decline, of quality and quantity factors, and of concentration and distribution.

Prerequisites: Soc. 132 or 232, 300.

403.* Techniques and Methods of Social Investigation. Four hours.

A study of the several methods of investigation and research in the fields of social science; sources of data and their evaluation.

408.* The Family. Three hours. (First semester.)

The family as institution; the structure of early family life, and its relation to social organization; problems of the modern family.

Prerequisites: Sociology 300 and senior or graduate standing.

412.* Principles and Techniques of Group Relations. Three hours. (Second semester.)

Analysis of the group; participation, relationship within the group; inter-group relations; causes of group tensions; means of reducing group tensions; development of techniques in group control; leadership.

Prerequisites: Sociology 300 and senior or graduate standing.

*Undergraduate Courses Open to Graduate Students.

421.* History of Social Thought. Three hours.

The origin and development of social thought and plans about society from the earliest times to the present; origins of science of sociology and a brief study of the chief modern systems of sociology.

Prerequisites: Soc. 300, and 401 or 418.

Courses Open to Graduate Students Only**501. Sociological Theory.** Three hours.

A course in systematic sociology in which the student will be expected to become acquainted with the cardinal principles of the chief works of outstanding thinkers in the field.

502. Contemporary Social Change. Three hours.

A study of the dynamic factors of social change and disturbance. The development of social movements; the effect of discovery, invention, disaster, and rapid shifts in social interests.

511. Seminar in Social Pathology. Three hours.

Special problems dealing with the unadjusted, dependent, and neglected classes. Students electing this course should have had Soc. 311.

520. Seminar in Delinquency and Criminology. Three hours.

A research course dealing with some of the basic factors productive of delinquency and crime and measures for meeting them.

Students electing this course should have had Soc. 315 and 320.

525. Social Control. Three hours.

A study of the formal and informal means of social control such as legal processes, institutional control, punishments and rewards. Analyses of types of control and of the causes of increasing control.

Prerequisite: Sociology 421.

532. Rural Social Organization. Three hours.

An advanced study of the different forms of human association in rural life, and of their relatedness and organization in the achievement of high values and culture advancement. It presupposes a basic course in rural sociology.

570-571. Research. Two hours each semester.

Special problems selected by the students with the approval of the instructor.

580. Thesis or Problem Report I. One to three hours.**581. Thesis or Problem Report II.** One to three hours.

*Undergraduate Courses Open to Graduate Students.

SPEECH

Courses may be taken with approval of student's adviser and instructor in the course.

Courses Open to Juniors, Seniors, and Graduate Students**418.* Speech Correction.** Three hours.

A basic course dealing with the causes, symptoms and treatment of speech disorders (defective voice and articulation, stuttering, cleft palate, cerebral palsy, aphasia, retarded speech development and impaired hearing), and with speech correction as an educational and clinical field.

Prerequisite: Speech 240 or consent of instructor.

419.* Speech Correction. Three hours.

An introduction to clinical methods in speech correction. Designed to familiarize the student with diagnostic procedures, and to provide case material for clinical practice.

Prerequisite: Speech 418.

*Undergraduate Courses Open to Graduate Students.

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