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The Graduate School of Arts and Sciences

1939-1940

ANNOUNCEMENTS FOR 1940-1941

PUBLISHED BY THE UNIVERSITY
DURHAM, NORTH CAROLINA

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For Bulletin of The School of Law, apply to *The Dean of the School of Law,* Duke University, Durham, N. C.

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OF
DUKE UNIVERSITY

THE GRADUATE SCHOOL OF ARTS AND SCIENCES

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DURHAM, NORTH CAROLINA
1940

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1940

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UNIVERSITY CALENDAR

1940

June	11.	Tuesday, 9:00 A.M.—Registration of students for Summer School, first term.
June	12.	Wednesday, 2:00 P.M.—Instruction begins for Summer School, first term.
July	4.	Thursday—Independence Day: a holiday.
July	22-23.	Monday, Tuesday—Final examinations for Summer School, first term.
July	24.	Wednesday, 9:00 A.M.—Registration of students for Summer School, second term.
July	24.	Wednesday, 2:00 P.M.—Instruction begins for Summer School, second term.
Sept.	2-3.	Monday, Tuesday—Final examinations for Summer School, second term.
Sept.	18.	Wednesday, 11:00 A.M.—Formal opening of the College; registration of matriculated students.
Sept.	19.	Thursday—Instruction for Sophomores, Juniors, and Seniors begins.
Sept.	19-21.	Thursday, 9:15 A.M.-12:45 P.M.; 2:30 P.M.-4:30 P.M.; Friday, 9:15 A.M.-12:45 P.M.; 2:30 P.M.-4:30 P.M.; Saturday, 9:15 A.M.-12:45 P.M.—Registration of graduate students.
Oct.	15.	Tuesday—Last day for submitting thesis subjects for the degree of Doctor of Philosophy.
Nov.	4-9.	French examinations for candidates for graduate degrees. Candidates register in the Graduate Office for these examinations before October 30.
Nov.	11-16.	German examinations for candidates for graduate degrees. Candidates register in the Graduate Office for these examinations before November 4.
Nov.	15.	Friday—Last day for submitting thesis subjects for the degrees of Master of Arts and Master of Education.
Nov.	28.	Thursday—Thanksgiving Day: a holiday.
Dec.	11.	Wednesday—Duke University Day.
Dec.	20.	Friday, 1:00 P.M.—Christmas recess begins.

1941

Jan.	3.	Friday, 8:00 A.M.—Instruction is resumed.
Jan.	10-16.	Reading period.
Jan.	17.	Friday—Mid-year examinations begin.
Jan.	29-31.	Wednesday, Thursday, and Friday, 9:15 A.M.-12:45 P.M., 2:30 P.M.-4:30 P.M.—Registration for second semester.
Feb.	1.	Saturday—Second semester begins.

March	1.	Saturday—Last day for applying for University fellowships, graduate assistantships, and graduate scholarships.
March	3-8.	French examinations for candidates for graduate degrees. Candidates register in the Graduate Office for these examinations before February 26.
March	10-15.	German examinations for candidates for graduate degrees. Candidates register in the Graduate Office for these examinations before March 3.
March	22.	Saturday, 1:00 P.M.—Spring vacation begins.
March	31.	Monday, 8:00 A.M.—Instruction is resumed.
April 25-May 9.		Reading period.
May	1.	Thursday—Last day for submitting theses for degree of Doctor of Philosophy.
May	15.	Thursday—Last day for submitting theses for degrees of Master of Arts and Master of Education.
May	16.	Friday—Final examinations begin.
May	31.	Saturday—Commencement opens; Senior Class Day; meeting of the Board of Trustees.
June	1.	Sunday—President's Address to Graduating Class; Commencement Sermon.
June	2.	Monday—Commencement Address; Alumni-Alumnae Luncheon; Graduating Exercises; Lowering of the Flag by the Graduating Class.

OFFICERS OF ADMINISTRATION

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President

ROBERT LEE FLOWERS, A.M., LL.D.
Vice-President in the Business Division

WILLIAM HANE WANNAMAKER, A.B., A.M., Litt.D.
Vice-President in the Educational Division

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Dean of the Graduate School of Arts and Sciences

WALTER HAROLD DELAPLANE, A.B., A.M., Ph.D.
Assistant to the Dean of the Graduate School

FRANK CLYDE BROWN, A.B., A.M., Ph.D.
Comptroller

CHARLES BLACKWELL MARKHAM, A.B., A.M.
Assistant Treasurer

JOHN JORGENSEN LUND, A.B., Ph.D.
Librarian

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Dean of the Graduate School of Arts and Sciences, ex officio

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PAUL MAGNUS GROSS, B.S., A.M., Ph.D.
WILLIAM THOMAS LAPRADE, A.B., Ph.D.
ARTHUR SPERRY PEARSE, B.S., A.M., Ph.D.
NEWMAN IVEY WHITE, A.B., A.M., Ph.D.
ROBERT RENBERT WILSON, A.B., A.M., Ph.D.

INSTRUCTIONAL STAFF

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The date denotes the first year of service at Duke University.

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* Absent on leave, second semester, 1940-41.
† Absent on leave, 1940-41.

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GRAY, IRVING EMERY, (1930) B.S., M.S., Ph.D.
Associate Professor of Zoology — Pinecrest Road

GROVES, ERNEST RUTHERFORD, (1938) A.B., B.D., Research Professor of Sociology at the University of North Carolina
Lecturer on Sociology, second half-year

HARRAR, ELLWOOD SCOTT, (1936) B.S., M.S., Ph.D.
Associate Professor of Wood Technology — 1402 Alabama Avenue

HATLEY, CHARLES CLEVELAND, (1917) A.B., A.M., Ph.D.
Professor of Physics — 708 Buchanan Road

*HAUSER, CHARLES ROY, (1929) B.S., M.S., Ph.D.
Assistant Professor of Chemistry — 1020 Rose Hill Avenue

HEBB, MALCOLM HAYDEN, (1938) A.B., Ph.D.
Instructor in Physics — 132 Pinecrest Road

HETHERINGTON, DUNCAN CHARTERIS, (1930) A.B., M.A., Ph.D., M.D.
Associate Professor of Anatomy — Hope Valley

HILL, DOUGLAS, (1931) A.B., M.A., Ph.D.
Instructor in Chemistry — Dixon Road

HOBBS, MARCUS EDWIN, (1935) A.B., A.M., Ph.D.
Instructor in Chemistry — 10 Powe Apartments

HOLLINSHEAD, WILLIAM HENRY, (1930) B.A., M.S., Ph.D.
Assistant Professor of Anatomy — 1006 Urban Avenue

KRUMMEL, CHARLES ALBERT, (1922) Ph.B., Ph.M., Ph.D.
Professor of German — 2118 Englewood Avenue

LEONARD, HENRY SIGGINS, (1937) A.B., A.M., Ph.D.
Assistant Professor of Philosophy — 107 Pinecrest Road

LESTER, RICHARD ALLEN, (1940) Ph.B., M.A., Ph.D.
Assistant Professor of Economics — Duke University

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* Absent on leave, first semester, 1940-41.

LINEBARGER, PAUL MYRON ANTHONY, (1937) A.B., M.A., Ph.D.
Assistant Professor of Political Science 1502 Bivins Street

MCCREA, FORREST DRAPER, (1930) B.S., M.S., Ph.D.
Associate Professor of Physiology and Pharmacology 1023 Demerius Street

MCLARTY, FURMAN GORDON, (1933), A.B., B.A., A.M., Ph.D.
Instructor in Philosophy Hillsboro, N. C.

MANCHESTER, ALAN KREBS, (1929) A.B., A.M., Ph.D.
Assistant Professor of History 2016 Myrtle Drive

MARTIN, DONALD STOVER, (1932) A.B., M.D. 2609 Chapel Hill Road
Associate Professor of Bacteriology and Associate in Medicine

MAUGHAN, WILLIAM, (1931) B.S., M.F.
Associate Professor of Forest Management 5 Sylvan Road

†MILES, EDWARD ROY CECIL, (1929) B.S., M.A., Ph.D.
Assistant Professor of Mathematics 1028 Gloria Avenue

MOUZON, JAMES CARLISLE, (1932) B.A., Ph.D.
Assistant Professor of Physics 132 Pinecrest Road

NEURATH, HANS, (1938) Ph.D.
Assistant Professor of Biochemistry Manchester Apartments

OOSTING, HENRY JOHN, (1932) A.B., M.S., Ph.D.
Assistant Professor of Botany 2528 University Drive

OUTLER, ALBERT C., (1938) A.B., A.M., B.D., Ph.D.
Assistant Professor of Historical Theology Francis Street

PERRY, HAROLD SANFORD, (1932) A.B., Ph.D.
Assistant Professor of Botany 1222 Sixth Street

PETRY, RAY C., (1937) A.B., A.M., Ph.D.
Assistant Professor of Church History Pinecrest Road

QUYNN, DOROTHY MACKAY, MRS., (1930) A.B., A.M., Docteur de l'Université de Paris
Assistant Professor of History Woodridge Drive, Rockwood

RANKIN, WILLIAM WALTER, JR., (1926) B.E., M.A.
Professor of Mathematics 1011 Gloria Avenue

REID, JOHN TURNER, (1939) A.B., A.M., Ph.D.
Assistant Professor of Romance Languages 2613 University Drive

ROBERTS, JOHN H., (1931) A.B., Ph.D.
Assistant Professor of Mathematics Legion Avenue

ROSE, JESSE LEE, (1936) A.B., M.A., Ph.D.
Instructor in Latin 5 Powe Apartments

RUSSELL, ELBERT, (1926) A.B., A.M., Ph.D.
Professor of Biblical Interpretation 811 Vickers Avenue

SAYLOR, JOHN HENRY, (1928) A.B., A.M., Ph.D.
Assistant Professor of Chemistry 1604 B Street

SCHUMACHER, FRANCIS X., (1937) B.S.
Professor of Forestry 6 Sylvan Road

SEELEY, WALTER JAMES, (1925) E.E., M.S.
Professor of Electrical Engineering 1005 Urban Avenue

SHIPMAN, GEORGE A., (1938) A.B., Ph.D.
Associate Professor of Political Science 2032 Club Boulevard

SMITH, DAVID TILLERSON, (1930) A.B., M.D. Hope Valley
Professor of Bacteriology and Associate Professor of Medicine

† Absent on leave, 1940-41.

SPRINGER, JOHN YOUNG, (1936) A.B., M.B.A.
Assistant Professor of Economics — University Apartments

STILL, BAYARD, (1938) A.B., A.M., Ph.D.
Assistant Professor of History — 909 Gregson Street

STINESPRING, WILLIAM FRANKLIN, (1936) B.A., M.A., Ph.D.
Associate Professor of Old Testament — 1107 Urban Avenue

SWETT, FRANCIS HUNTINGTON, (1930) A.B., M.A., Ph.D.
Professor of Anatomy — Hope Valley

TAYLOR, HAYWOOD MAURICE, (1930) B.S., M.S., Ph.D.
Associate Professor of Biochemistry and Toxicology — University Drive, Rockwood

THOMPSON, EDGAR T., (1935) A.B., A.M., Ph.D.
Assistant Professor of Sociology — Pinecrest Road

THOMSON, ROY BERTRAND, (1938) B.S., M.F., Ph.D.
Associate Professor of Forest Economics — K-1-A University Apartments

TRUESDALE, JAMES N., (1930) A.B., A.M., Ph.D.
Instructor in Greek — Duke University

*WALTON, LORING BAKER, (1929) A.B., Lic. ès L.
Associate Professor of Romance Languages — 1012 Green Street

WARD, CHARLES EUGENE, (1927) A.B., A.M., Ph.D.
Assistant Professor of English — 110 Pinecrest Road

WAY, VERNON ELGIN, (1930) A.B., A.M., M.A.
Assistant Professor of Greek — 909 Gregson Street

WILSON, ROBERT NORTH, (1910) A.B., M.S.
Professor of Chemistry — 822 Third Street

WOODY, ROBERT HILLIARD, (1929) Ph.B., A.M., Ph.D.
Assistant Professor of History — 2534 University Drive

YATES, ANNE, (1933) A.B., A.M., Ph.D.
Assistant Professor of Biochemistry — Cornwallis Road

YOUNGSTROM, KARL A., (1937) A.B., M.A., Ph.D.
Instructor in Anatomy — 228 Fir Street

INDUSTRIAL RESEARCH ASSOCIATES

Darkis, Frederick Randolph — Chemistry — 1211 Alabama Avenue
B.S., M.S., Ph.D., University of Maryland

McLean, Ruth — Chemistry — 2 Powe Apartments
A.B., Woman's College of the University of North Carolina; A.M., Duke

FELLOWS AND GRADUATE ASSISTANTS

UNIVERSITY FELLOWS

Bennett, John Boyce — Religion — K-1-C University Apartments
A.B., Wofford College; B.D., Duke University

Brach, Earl Tilton — Greek — 1106 Chapel Hill Street
A.B., Duke University

†Brandis, Roland Buford, Jr. — Economics — 808 North Gregson Street
A.B., University of Richmond; A.M., Duke University

Breslow, David Samuel — Chemistry — 07-HH
B.S., College of the City of New York

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* Absent on leave, second semester, 1940-41.
† Resigned, November 15, 1939.

Cain, Herbert Lloyd A.B., Southwestern; A.M., Duke University	Greek	1107 Minerva Avenue
Carper, Doris Viola B.S., Farmville State Teachers College	Education	116 Buchanan Road
Causey, Nelle Bevel B.S., College of the Ozarks; A.M., University of Arkansas	Zoology	306 Faculty Apartments
DeTurk, William Ernest A.B., A.M., University of Illinois	Zoology	2715 Chapel Hill Road
Duke, Kenneth Lindsay A.B., Brigham Young University	Zoology	2035 Englewood Avenue
Gilbert, Paul Wilner A.B., A.M., University of Rochester	Mathematics	Box 5053, Duke Station
Hamilton, James David Tillman A.B., A.M., University of Mississippi	History	010-HH
†Heyward, Mary Anne A.B., Duke University	English	102 Faculty Apartments
Hopkins, James Franklin A.B., University of Mississippi; A.M., University of Kentucky	History	010-HH
Johnston, George Washington B.S., M.S., Mississippi State College	Botany	1021 Markham Avenue
‡Limouze, Arthur Sanford A.B., College of Wooster; A.M., Columbia University	English	212-HH
Luttrell, Everett Stanley B.S., University of Richmond; A.M., Duke University	Botany	1004 Minerva Avenue
Maryott, Arthur Allen A.B., Duke University	Chemistry	221-HH
Park, Robert DeForest A.B., Oberlin College	Physics	115-HH
Richards, James Austin, Jr. A.B., Oberlin College	Physics	Nation Avenue
Russell, Charles Daniel, Jr. B.S., Niagara University; M.S., California Institute of Technology	Chemistry	209-HH
Skell, Philip B.S., College of the City of New York	Chemistry	04-HH
Smith, Clarence McKittrick, Jr. A.B., B.Mus., Newberry College; A.M., Harvard University	History	09-HH
Stroupe, Henry Smith B.S., A.M., Wake Forest College	History	Box 4992, Duke Station
Sturm, Albert Lee, Jr. A.B., Hampden-Sydney College; A.M., Duke University	Political Science	225-HH
Wade, Luther Irwin A.B., Duke University	Mathematics	Box 4616, Duke Station
Wollman, Seymour Horace B.S., M.S., New York University	Physics	Physics Department
Wood, Frederic Marcus, Jr. A.B., Western Reserve University; A.M., Duke University	Latin	1107 Minerva Avenue

† Resigned, February 6, 1940.
‡ Resigned, November 3, 1939.

BROOKINGS-DUKE FELLOWS

Hargreaves, Herbert Walter A.B., University of Nevada; A.M., Clark University	Economics	Washington, D. C.
Leath, James Milton A.B., Austin College; A.M., Southern Methodist University	Political Science	Washington, D. C.

GRADUATE ASSISTANTS

Abramovitch, Benjamin B.S., McGill University	Chemistry	011-HH
Allen, Clark Lee A.B., McKendree College; A.M., Washington University	Economics	910 Arnette Avenue
Ayres, Erle Bingham B.S., A.M., Boston University	Chemistry	02-HH
*Barnes, Jack Carlisle A.B., Duke University	English	201 Epworth
Beck, Lloyd Henry A.B., A.M., Oberlin College	Psychology	01-HH
Bizzell, William Hardy B.S., Millsaps College	Economics	118-HH
Boyer, Charles Chester B.S., St. Bonaventure College	Zoology	303 Swift Avenue
Brown, Catherine Ella A.B., Colorado College	Economics	303-C Faculty Apartments
Brown, Mary Ellen A.B., Goucher College	Philosophy	303-B Faculty Apartments
Burns, Wayne A.B., Miami University	English	2200 Chapel Hill Street
Campbell, Philip Storer B.S., Bowdoin College	English	117-HH
Carr, Thomas Deaderick B.S., University of Florida	Physics	127-HH
Caskey, James Edwards, Jr. B.S., Furman University	Mathematics	118-HH
Civin, Paul A.B., University of Buffalo	Mathematics	208-HH
Coleman, Maybelle A.B., Lander College; A.M., Columbia University	Sociology	113 Faculty Apartments
Colley, Frank Harris A.B., A.M., Duke University	History	Box 4862, Duke Station
Colloms, Lester Hubert A.B., Emory and Henry College; B.D., Emory University	Religion	1018 Monmouth Avenue
Decker, John Peter B.S., University of Idaho	Botany	Botany Department
Derr, Paul Franklin B.S., A.M., Duke University	Chemistry	08-HH
Douglass, Ann Elizabeth A.B., Swarthmore College	Psychology	215-A Faculty Apartments

* Second semester only.

*Dowling, Arthur Joseph, Jr. English 1010 West Trinity Avenue
A.B., Duke University

Duncan, Harry Alvin, Jr. English 1000 Lamond Avenue
A.B., Grinnell College

Elmer, Robert Watson English 1603 Duke University Road
A.B., Amherst College; A.M., Syracuse University

Flemister, Launcelot Johnson, Jr. Zoology 1018 Gloria Avenue
A.B., A.M., Duke University

†Garner, William Nelson Zoology 614 Arnette Avenue
B.S., Bethany College

Gilmore, Patricia Mary English 308-C Faculty Apartments
A.B., Smith College

Gould, Robert Kent Chemistry 08-HH
A.B., A.M., Duke University

Hadley, Elbert Hamilton Chemistry 221-HH
B.S., M.S., University of Michigan

Hall, Maurice Barker Physics Physics Department
B.S., M.S., Brigham Young University

Hardcastle, Aaron Bascom Zoology 2410 Club Boulevard
A.B., A.M., University of Richmond

Hardendorff, Victor Hall English 212-HH
A.B., Amherst College

Holder, Ray Religion 1014 Lamond Avenue
A.B., A.M., University of Mississippi

Holder, Virginia Lee Smart Latin 1014 Lamond Avenue
A.B., Randolph-Macon Woman's College; A.M., Duke University

Hoopes, Luther Hartman English 124-HH
A.B., Catawba College

Horton, Paul Burleigh Sociology 403-GG
A.B., Kent State University

Hudson, Boyd Ellyson, Jr. Chemistry 2500 Club Boulevard
A.B., Duke University

Humphreys, Mary Emily Botany 102 Faculty Apartments
A.B., Western Maryland College; A.M., Duke University

Johnston, Robert Ward Education 113 Epworth
A.B., Davidson College

Jones, Jameson Miller Religion 105-GG
A.B., Southwestern; B.D., Louisville Presbyterian Theological Seminary

Keeffe, Daniel Joseph English 201-GG
A.B., Louisiana State University

King, Emily Barton Romance Languages
A.B., Converse College; A.M., Duke University 302 Faculty Apartments

Koch, Sigmund Psychology 905 Sixth Street
A.B., New York University; A.M., State University of Iowa

Lenander, Harlan Edward Physics 113-HH
A.B., Southwestern

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* Resigned, February 14, 1940.
† Resigned, January 12, 1940.

Lethbridge, Berry Biccomb, Jr. — Economics — 1023 Gloria Avenue
B.S., Franklin and Marshall College

Livingston, Robert Blair — Botany — 012-HH
A.B., Colorado College

McAdams, Laura Jean — Romance Languages — Faculty Apartments
A.B., Erskine College; A.M., University of South Carolina

McDougall, Kenneth Dougal — Zoology — Box 701, College Station
Duke University

Marcum, Jay Marshall — Economics — 402-GG
A.B., Western Kentucky State Teachers College

*Miles, Frank Frodsham — Sociology — 1501 East Main Street
A.B., University of Washington

Mitchell, William Alexander — Political Science — 015-HH
B.S., Clemson Agricultural College

Monroe, Roger Clifford — Education — 708 Buchanan Road
A.B., Bradley Polytechnic Institute; A.M., University of Florida

Moore, Thomas Hayes — Economics — 115 Epworth
B.S., Roanoke College

Neelands, Charles Wesley — Religion — 1014 Lamond Avenue
A.B., Queen's University; B.D., Queen's Theological College

Patterson, James Reid — Physics — 1007 Green Street
B.S., Davidson College

Pethick, Mary Grace — Botany — 1021 Minerva Avenue
A.B., Duke University

Ramsey, Helen Joyce — Zoology — 302 Faculty Apartments
B.S., M.S., Purdue University

Roberg, Jane — Physics — 216 Faculty Apartments
B.S., University of Washington

Rutledge, Ivan Cate — Political Science — 026-HH
A.B., Carson-Newman College

Schultz, Harold — History — 125-HH
A.B., Columbia University

Shannon, Edgar Finley, Jr. — English — E-1-B University Apartments
A.B., Washington and Lee University

**Singletary, William Edward — English — 314-GG
A.B., Duke University

Stainbrook, Edward John — Psychology — 117 Epworth
A.B., Allegheny College

†Starling, James Holt — Zoology — F-1-A University Apartments
A.B., A.M., University of Alabama

Steele, Alpheus Thornton — Economics — 303 Swift Avenue
A.B., Municipal University of Wichita

‡Tate, Russell Sage, Jr. — Economics — 918 Urban Avenue
††A.B., University of Richmond; A. M., Duke University

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* Resigned, December 12, 1939.
** Resigned, October 24, 1939.
† Second semester only.
‡ Resigned, December 5, 1939.
†† A.M. to be conferred June, 1940.

†Teagarden, Lucetta Jane A.B., Wilson College	English	305 Faculty Apartments
†Thomasson, Betty Marchant A.B., Meredith College	English	215-B Faculty Apartments
Watts, Daniel Thomas A.B., Elon College	Zoology	121-HH
Watts, Hessie Brawley A.B., A.M., Duke University	English	306 Faculty Apartments
Williams, Melvin John A.B., B.D., Duke University	Sociology	1110 Chapel Hill Street
Wolf, Mary Hubbard A.B., Mount Holyoke College	Zoology	924 Urban Avenue
Wright, Ernest Baskin A.B., University of Alabama; A.M., University of Wisconsin	Political Science	1215 Sixth Street

GRADUATE SCHOLARS

Ahlstrom, John Dillingham A.B., Williams College	History	120-HH
Bailey, James Eugene A.B., Duke University	Romance Languages	313-GG
Barrett, William Robert, Jr. A.B., The Citadel	German	216-HH
Burrows, Edward Flud A.B., Washington and Lee University	History	023-HH
Cleveland, Leslie Joseph A.B., Carleton College	History	015-HH
Dibeler, Vernon Hamilton B.S., Duke University	Chemistry	214-HH
Downton, James Bertram A.B., University of Buffalo	Greek	1505 Duke University Road
Faires, Robert Edgerton B.S., Ohio University	Physics	217-HH
Feagins, Carroll Spurgeon A.B., Duke University; A.M., University of Michigan	Philosophy	024-HH
Few, Kendrick Sheffield A.B., Duke University	English	Duke Station
Flora, William Evans Sherlock A.B., College of Wooster; A.M., Duke University	Political Science	1411 B Street
Helm, Robert Meredith, Jr. A.B., Wake Forest College	Philosophy	114-HH
Jennings, Louis Girton A.B., Franklin and Marshall College	Latin	212-HH
Jones, Ralph Gray A.B., A.M., Louisiana State University	Political Science	117-HH
*Long, John William, Jr. A.B., Dickinson College; A.M., Duke University	History	2003 Club Boulevard
Lyu, Kingsley Kyungsang A.B., Chosen Christian College; B.S., A.M., Syracuse University	Philosophy	101 Epworth

† Second semester only.
* A.M. to be conferred June, 1940.

McGaughran, Laurence Shirley A.B., University of Louisville	Psychology	211-HH
Rand, Robert Collom A.B., Duke University	Mathematics	213-HH
Rapp, Marvin August A.B., Colgate University	History	111-HH
Rein, William Christopher A.B., Western Maryland College; M.Ed., Duke University	Education	818 Sixth Street
Strickland, Winifred Lillie B.S., Birmingham-Southern College	Biochemistry	215-A Faculty Apartments
Toole, Eben Richard B.S., New York State College of Forestry; A.M., Duke University	Forestry	219-HH
Turner, Philip Allison A.B., Hiram College	Romance Languages	016-HH
Van Voorhis, Robert Henry A.B., Duke University	Economics	314-HH
Waldron, Ellis Leigh A.B., Ohio State University; A.M., University of Wisconsin	Political Science	017-HH
Webb, John Maurice A.B., Duke University; A.M., Yale University	History	1017 West Trinity Avenue

GRADUATE INSTRUCTION IN DUKE UNIVERSITY

ADMISSION

TO GRADUATE COURSES

A student who has received the A.B. or B.S. degree for a four-year undergraduate course may be admitted to take graduate courses in the Graduate School of Arts and Sciences of Duke University, provided that his undergraduate record gives positive evidence of ability to undertake graduate study successfully. An average grade of not less than "B" is ordinarily accepted as evidence of such ability.

No college or university work taken before the Bachelor's degree is conferred, or fully earned, may be credited toward an advanced degree except under the following circumstances: A student of Duke University who lacks at the beginning of a term not more than nine semester hours of fulfilling the requirements for the Bachelor's degree may obtain permission from the Dean of the Graduate School to take during the term graduate courses sufficient to bring his total work to fifteen hours a week. Such graduate courses will be credited toward the degree of Master of Arts or Master of Education if registered in the Graduate School Office at the beginning of the term and if the student meets the requirements below for formal admission to the Graduate School.

A candidate for admission to graduate courses should ask the proper officer of the college(s) he attended to send directly to the Dean of the Graduate School an official transcript of his undergraduate record. An advanced student should provide also a transcript of the graduate work he has completed. In no case will a transcript presented by the candidate himself be accepted as a basis for admission, nor will a transcript mailed by any institution be returned to the student. An application blank for admission will be provided upon request to the Dean of the Graduate School. The transcript and application should be submitted to the Graduate School by September 1 for admission in the autumn semester and by January 15 for admission in the spring semester.

TO THE GRADUATE SCHOOL

After twelve semester hours of graduate work, the student may apply for admission to the Graduate School, and thus become a candidate for the Master's degree. Such admission is dependent upon the fulfillment of two conditions. (1) The student must have made a mark of "G" or "Good" in at least three semester hours of work, with no mark less than "S." Candidates who cannot meet this condition may at a later time submit their records for re-evaluation, provided that in their subsequent work they shall have made a substantial number of "G's." (2) The student in his undergraduate work must have met substantially the requirements for the A.B. or B.S. degree at Duke University. Any deficiencies

of undergraduate work must be satisfied before admission to the Graduate School. Graduate courses taken at Duke University prior to formal admission to the Graduate School will count toward a higher degree provided they are in accord with its requirements and are acceptable to the major department.

REGISTRATION

A student who is admitted to graduate courses will receive a permit to register, which he should present when he registers for courses. If he expects to work toward an advanced degree, he must consult with the Director of Graduate Studies or his representative in the department in which he proposes to major before registering his courses in the Graduate School Office. This can be done during the registration period in September and January. The department concerned will determine whether a student is prepared to take any particular course. In all cases the student must make up without credit toward a graduate degree all prerequisites required by the major department of candidates for advanced degrees. Students who have fulfilled the minimum residence requirements for the doctorate but who are continuing resident study at Duke University for the degree should register in the Graduate School Office, even though there may be no fees to be charged.

New students are advised to arrive early during the registration period in order to formulate their programs. Anyone registering for courses after the close of the regular registration period will be charged a late registration fee of five dollars.

TUITION AND FEES

GENERAL FEES IN THE ACADEMIC YEAR

The following table shows the general fees and charges collected from all students and the special fees collected from those taking courses in the sciences. All fees for each semester are due and payable, unless otherwise specified, at the time of registration at the beginning of that semester. No student is admitted to classes until arrangements have been made with the Treasurer of the University for the settlement of fees.

Matriculation, per semester	$ 25.00
Tuition, per semester	100.00
Room-rent—See detailed statement that follows.	
Athletic Fee, admitting students to all athletic contests held on the University grounds, per semester	5.00
Damage Fee, payable annually in September	1.00
Medical Fee, per semester	5.00
Library Fee, per semester	5.00
Commencement Fee, payable once by graduate students in the last semester before a degree is conferred	3.00
Diploma Fee, payable by candidates for degrees at the beginning of the second semester, refunded if the diploma is not awarded	5.00

For further information concerning room-rent, see below.

SPECIAL FEES

Graduate students in the sciences are required to pay the special laboratory fees for courses as fixed by the various departments. An administrative fee is charged in connection with special research work in the summer under direction of a member of the Faculty.

STUDENTS FROM THE UNIVERSITY OF NORTH CAROLINA GRADUATE SCHOOL

Under an experimental plan of co-operation between the University of North Carolina and Duke University, regular students from the University of North Carolina Graduate School admitted to courses in the Duke University Graduate School pay a registration fee of two dollars and any laboratory or special course fees which are required of all students.

TRANSCRIPTS

A student desiring to transfer from Duke University to another institution is entitled to one free transcript of his record. A charge of one dollar, payable in advance, is made for each additional copy. Transcripts of students who enroll in graduate courses only in the summer sessions are issued by the Summer School Office prior to the fulfillment of all requirements toward an advanced degree, after which time they can be obtained in the regular way from the Graduate School.

PAYMENTS TO FELLOWS, SCHOLARS, AND GRADUATE ASSISTANTS

Payments by the University of stipends to fellows, scholars, and graduate assistants are made in four equal installments on November 25, January 25, March 25, and May 25. Tuition and fees are charged against the stipends.

Fellows and scholars are required to pay the regular tuition and fees and are expected to take a full program of work. Assistants who are permitted to register for only four fifths of a regular program are charged a proportionate amount of the tuition in addition to the regular matriculation and other minor fees.

SPECIAL CHARGES FOR TEACHERS AND OTHERS

For the purpose of aiding North Carolina teachers in their professional preparation, Duke University grants a special tuition rate to members of the faculties of near-by schools and colleges who desire to register during the regular academic session for one or two graduate courses. For such courses a teacher regularly employed and teaching while taking these courses is charged a registration fee of five dollars at the beginning of each semester and a tuition fee of three dollars per semester hour of course credit, together with any regular laboratory fees which may be required in these courses. Under this provision a student may not register for more than seven hours per week.

Employees of Duke University who are paid on a monthly basis throughout the year, ministers of near-by churches, and wives of the Duke Faculty may be included under the above provisions by the Dean of the Graduate School, provided that such persons do not receive resi-

dence credit for more than two fifths of a regular program in meeting the requirements for advanced degrees.

The special tuition rate for teachers does not apply in any case to the holders of fellowships, graduate scholarships, and graduate assistantships annually awarded in the Graduate School nor to teachers on leave of absence and not actually engaged in their teaching at the time of registration.

LIVING ACCOMMODATIONS AND EXPENSES

ROOMS

On the West Campus a new graduate building, Few Quadrangle, was opened in September, 1939, with accommodations sufficient to meet the requirements of the men in the Graduate School and in the professional schools. Special sections are reserved for those registered in the Graduate School of Arts and Sciences. On the East Campus a limited number of rooms in the Faculty Apartments is available to women registered in the Graduate School. All students' rooms, both on the Woman's College Campus and on the West Campus, are supplied with all necessary furniture. The student should plan to provide his own towels, sheets, pillows, pillowslips, bedcoverings, and table lamp.

Rooms for men in the graduate dormitory on the West Campus vary in rent between $50.00, $62.50, and $75.00 per semester. In the Faculty Apartments on the Woman's College Campus, a single room rents for $87.50 per semester, a double room for $62.50 per semester per person.

Rooms are reserved only for students who have been officially admitted to graduate courses by the University. They are rented for no shorter period than one semester. The occupancy of a room for less than one semester will cost the student one dollar each day unless he makes the necessary arrangements with the Director in the Business Division before occupying the room. Men who desire to live in the graduate dormitory should make application to Mr. W. E. Whitford, Director of the Business Division; a room reservation fee of $25.00 is payable at the date of acceptance of his application for admission to graduate courses. Similarly, women who wish to room in the Faculty Apartments should make application and pay the room reservation fee to Mr. W. A. Tyree, Director of the Business Division. This fee is deducted from the room-rent in the fall and its not refundable unless the request is made on or before July 15. Early application for a dormitory room is essential if the student wants to be assured of living accommodations on the campus.

A resident student who wishes to retain his room for the succeeding year must pay first a reservation fee of $25.00 to the Treasurer's Office and then notify the office of the Director of the Business Division on or before May 15. All rooms which have not been reserved by that date will be considered vacant for the succeeding year. When a room is once engaged by a student, no change will be permitted except with the consent of the Director of the Business Division.

Graduate students are required to observe the same general regulations as undergraduate students with respect to the use of the rooms. Leaving one room and occupying another without permission is strictly forbidden and will render the offender liable to a charge for both rooms for the entire semester. No occupant is permitted to rent or sublet a room to another occupant. The use of a room for merchandising of any kind is not allowed.

The University does not assume the responsibility of selecting and assigning roommates, though it will gladly render any assistance possible in the matter.

BOARDING ACCOMMODATIONS

Men and women enrolled in the Graduate School will find superior dining facilities in the Unions on the East and West Campuses. The charge for board approximates $225 per year. The Union on the West Campus has, in addition to the regular dining halls, a coffee shop and a sandwich shop, in which *a la carte* service is available.

ESTIMATED EXPENSES IN THE ACADEMIC YEAR

The necessary expenses of a graduate student are moderate. The University dormitories and Unions provide comfortable and wholesome living conditions at a minimum cost. Incidental expenses for recreation, smoking, traveling, clothes, and other items naturally depend on the tastes and habits of the individual. The table below lists the necessary college expenses for one year:

	Low	*Moderate*	*Liberal*
Tuition	$200.00	$200.00	$200.00
Matriculation	50.00	50.00	50.00
Room-rent	100.00	125.00	150.00
Board	225.00	225.00	225.00
Laundry	20.00	25.00	30.00
Books	22.50	30.00	45.00
Library Fee	10.00	10.00	10.00
Athletic Fee	10.00	10.00	10.00
Damage Fee	1.00	1.00	1.00
Medical Fee	10.00	10.00	10.00
	$648.50	$686.00	$731.00

FELLOWSHIPS, SCHOLARSHIPS, AND ASSISTANTSHIPS

For the assistance and encouragement of graduate students of high character and marked ability, the University has established a considerable number of fellowships and scholarships. Holders of fellowships and scholarships will be expected to pay the tuition fee and such additional fees as are regularly required. Applications for these appointments should be made on or before March 1 of each year. In case vacancies occur, applications submitted on a later date will be considered. Appointments which were offered for the year 1940-41 are listed below.

FELLOWSHIPS

One Angier Duke Memorial Fellowship of one thousand dollars.

Four University Fellowships of seven hundred and fifty dollars each.

Ten University Fellowships of seven hundred dollars each.

Sixteen University Fellowships of six hundred and fifty dollars each.

One Gurney Harris Kearns Fellowship in American Religious Thought of seven hundred dollars.

Fellows will be required to give a limited amount of assistance in reading papers, in laboratories, or in other departmental duties. All fellows carry a full program of graduate work.

GRADUATE SCHOLARSHIPS

Seven Graduate Scholarships of four hundred and fifty dollars each.

Twelve Graduate Scholarships of four hundred dollars each.

Scholars may be asked to give a limited amount of assistance in departmental work. They normally carry a full program of graduate studies.

FELLOWSHIPS AND GRADUATE SCHOLARSHIPS IN FORESTRY

Information regarding special fellowships and graduate scholarships in forestry may be obtained before March 1, 1941, from the Dean of the School of Forestry, Duke University, Durham, North Carolina.

BROOKINGS-DUKE CO-OPERATIVE FELLOWSHIPS

Duke University and the Brookings Institution of Washington, D. C., have entered into a co-operative arrangement for the establishment of fellowships in economics and political science. Each fellowship will be of the approximate annual value of one thousand dollars. The fellowships will be available to third-year or more advanced graduate students, who have either completed the work for the Ph.D. degree, or who wish to do thesis work in Washington. In carrying on their work, students will use the facilities of the Brookings Institution. In most cases unmarried persons will be nominated for these appointments. Further details can be obtained from the Dean of the Graduate School, Duke University, or from the Brookings Institution, Washington, D. C. Graduate students who desire to be nominated by Duke should apply to the departments concerned not later than March 1. Nominations are transmitted to the Brookings Institution by March 15.

APPOINTMENTS AS GRADUATE ASSISTANTS

A considerable number of appointments as teaching assistants or readers will be available for graduate students. The compensation will usually range from $300 to $700, depending upon the nature and amount of the work assigned. Assistants receiving $500 or more will be registered for four fifths of a normal program of studies.

Information regarding fellowships, graduate scholarships, and graduate assistantships, together with application blanks, may be obtained from the Dean of the Graduate School, Duke University, Durham, North Carolina.

ADVANCED DEGREES

The degrees offered in the Graduate School of Arts and Sciences are Master of Arts (A.M.), Master of Education (M.Ed.), and Doctor of Philosophy (Ph.D.). Most departments of the University are now prepared to give a full program of work leading to the degree of Doctor of Philosophy.

REQUIREMENTS FOR THE DEGREE OF MASTER OF ARTS

LANGUAGE REQUIREMENTS

Candidates for the degree of Master of Arts are required either to have a reading knowledge of a foreign language evidenced by examination or by transcript showing the completion of the third college year of the language, or to have a reading knowledge of French and German evidenced by transcript showing the completion of second-year college French and college German.

MAJOR AND MINOR SUBJECTS

As a prerequisite to graduate study in his major subject, a student must have completed a minimum of twelve semester hours of approved *preliminary* courses in that department and twelve additional semester hours either in that department or in related work. Many departments require eighteen semester hours of undergraduate credit. The student therefore should read carefully the special requirements listed by each department.

To obtain the degree of Master of Arts, a candidate must complete satisfactorily twenty-four semester hours of graduate courses and a thesis. The credit for the thesis is six semester hours. Each candidate for the degree must select a major subject, in which the minimum requirement is twelve semester hours and the thesis. A candidate must take six semester hours of graduate work in a minor outside of but approved by the major department, and the remaining six semester hours in the major or minor fields or in a department approved by the major department and by the Graduate School Council. No undergraduate course may be credited toward the degree of Master of Arts.

RESIDENCE REQUIREMENTS

The minimum residence requirement of candidates for the Master's degree is one academic year. Often a longer period of residence will prove necessary. Those students who take more than fifteen semester hours of courses in the Summer School must fulfill a minimum residence requirement of thirty-three weeks.

Not more than six semester hours of credit toward the Master's degree may be given to graduates of Duke University or of other colleges or universities for acceptable graduate courses or research work completed elsewhere. Such credit shall not shorten the minimum period of full-time residence work required at Duke University. It may be used, however, to give opportunity to take six semester hours of a required

language course or of required undergraduate training. No credit toward advanced degrees is given for university extension or correspondence courses.

All the work offered for the Master's degree, whether in the regular academic year or in summer sessions, must be completed within a period of six years from the date of beginning.

THESIS

The title of the thesis required in partial fulfillment of the requirements for the degree of Master of Arts or Master of Education must be approved by the department or departments concerned and filed with the Dean of the Graduate School on or before November 15 of the academic year in which it is expected that the degree will be conferred.

Three (or, at the discretion of the department, four) bound typewritten copies of each thesis must be submitted to the Dean of the Graduate School in approved form on or before May 15 of the year in which the degree is conferred. The thesis is passed upon and accepted or rejected by an examining committee of three members of the Faculty. Two of the copies, the original and a carbon copy, are placed in the University Library.

EXAMINATION

Each candidate for the Master's degree is required to appear before the committee mentioned above for a final examination, which will approximate one and one-half hours in length and will be on the thesis and major field.

REQUIREMENTS FOR THE DEGREE OF MASTER OF EDUCATION

The degree of Master of Education is granted to teachers or others engaged in educational service, upon the completion of the prescribed program of study. Candidates for the degree must have had two years of practical experience in teaching when the degree is conferred. This experience may be obtained in the two years immediately prior to entering upon candidacy for the degree, or it may be obtained concurrently with the period of study for the degree.

A preliminary requirement for admission to graduate study for this degree is the completion of a minimum of eighteen semester hours of approved undergraduate work in education, including courses in educational psychology and in the history of education, or educational sociology, or school administration.

The requirements for the degree of Master of Education are twenty-four semester hours of graduate courses and a thesis. Candidates must take a minimum of twelve semester hours of work and write a thesis in the Department of Education. At least six semester hours must be taken in some department other than the Department of Education. Students who are preparing to teach are advised strongly to take twelve semester hours of graduate work in the subjects they intend to teach. In such cases the thesis may be prepared under the joint supervision of a depart-

ment in which the student expects to teach and the Department of Education.

The requirements pertaining to residence, thesis, and examination for the degree of Master of Education are identical with those for the degree of Master of Arts. Students who work toward the degree of Master of Education in the Summer School may substitute certain courses and examinations for the thesis requirement, as explained in the *Bulletin of the Summer School.*

REQUIREMENTS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

THE DEGREE

The degree of Doctor of Philosophy is a research degree; it is not based merely upon the completion of a prescribed period of study or upon the obtaining of credit for a given number of courses. The granting of the degree will be based primarily upon evidence of high attainments in a special field of knowledge and upon the production of a thesis embodying the results of original research.

A student who plans to enter upon a program of work leading to the degree of Doctor of Philosophy should consult or enter into correspondence with the Dean of the Graduate School or the Chairman or Director of Graduate Studies of the department concerned. He will then be advised as to the possibility of securing the necessary instruction and supervision of research in the desired field.

RESIDENCE

The normal period of resident graduate study, after the general requirements for admission to the Graduate School have been satisfied, is not less than three academic years. The candidate must spend at least either the last year in actual residence at Duke University, or the first two years. A student whose undergraduate work is insufficient in amount or unsatisfactory in character may expect to spend additional time in preliminary courses essential as a basis for the graduate work he proposes to undertake.

Credit for one year of work done in summer school sessions may be given with the approval of the Graduate School Council and the department in which the student takes his major work. Except in unusual cases, graduate work of fragmentary character taken over a long period of years, or work completed many years before the student becomes a candidate for the degree at Duke University, will not be accepted as satisfying the requirements of residence.

APPLICATION FOR CANDIDACY

A student desiring to become a candidate for the Ph.D. degree is ordinarily required to file with the Dean of the Graduate School, not later than the beginning of the second year of graduate work, a formal application indicating in what department and under what professor he

proposes to carry on research. A committee will then be appointed to supervise the student's work, with the professor in charge of his research as chairman. If and when the committee finds that the preliminary requirements of the major department have been satisfied, the chairman of the committee shall report the fact in writing to the Dean of the Graduate School. The student's program of study will be arranged after consultation with this committee and must secure its approval and that of the Dean of the Graduate School. In the case of students who come to Duke University for only the last year of graduate work, and in special cases approved by the Graduate School Council, the application for recognition as a candidate for the Ph.D. degree may be filed later than provided above, but not later than October 15 of the academic year in which it is desired that the degree be conferred.

PROGRAM OF STUDY

The program of study of a candidate for the Ph.D. degree is subject to the approval of the Graduate School Council and of the committee provided for in the preceding section. The student must select a major field and one or two minor related fields. When a department offers instruction in a sufficient variety of subjects and the needs of the individual student seem to require it, the Graduate School Council may permit a major and minor to be taken in the same department.

FOREIGN LANGUAGES

A reading knowledge of French and German will be required. The student will be examined on one of the foreign languages at the beginning of his second year of graduate work. No person can come up for his preliminary examination without having satisfied the language requirements for the Doctor's degree. The department in which he takes his major work may indicate preference as to the language in which the student shall first be examined. Foreign language examinations will be conducted by the appropriate language department in conjunction with the department in which the student has his major field of work.*

PRELIMINARY EXAMINATION

Toward the end of the second full year of graduate work (or in special cases early in the third year), a preliminary examination of each candidate will ordinarily be held covering the general field of his studies. This examination will be conducted by the committee in charge of the student's work and will be either oral or written, or both as the committee may determine. A student who passes the examination will be recognized as a candidate for the Ph.D. degree. The examination on his subject or subjects will ordinarily be held at the time of his preliminary examination. Graduate students who transfer to Duke University to work toward the degree of Doctor of Philosophy and who have already passed the preliminary examination for that degree at another university

* See University Calendar, p. 7.

must take the regular preliminary examination at Duke University unless excused from it by special action of the Graduate School Council.

If a student fails on his first examination, he may make a second attempt after six months upon the recommendation of his committee and the approval of the Dean of the Graduate School. Two failures on this examination make the student ineligible to continue work toward the Ph.D. degree at Duke University.

THESIS

The thesis for the Ph.D. degree must be a contribution to knowledge. The subject of the thesis must be filed with the Dean of the Graduate School on or before October 15 of the academic year in which the candidate desires to take the final examination for his degree. The subject must receive the written approval of the head or chairman of the department in which the candidate has his major field of work and also of the professor under whom the thesis is being written.

The thesis must be completed to the satisfaction of the professor under whom it is written, and four bound, typewritten copies in approved form must be deposited with the Dean of the Graduate School on or before May 1 if the student desires to be examined on the thesis in the same academic year. The bound copies of the thesis should contain at the end an autobiographical sketch of the student. The title page must be approved by the major department and by the Dean of the Graduate School. Two of the copies, the original and a carbon copy, are placed in the University Library.

The candidate's thesis must be published either in its original form or in a modified form approved by the Dean of the Graduate School and the committee in charge of the candidate's work. In its published form the title page should include this statement: "A Thesis Submitted in Partial Fulfillment of the Requirements for the Degree of Doctor of Philosophy in the Graduate School of Arts and Sciences of Duke University." Copies of the published thesis should be deposited in the Graduate School Office as provided by regulations of the Graduate School Council. The degree will not be conferred until publication of the thesis, in approved form, within three years has been guaranteed in a way satisfactory to the Dean of the Graduate School and the professor under whom the thesis was written.

FINAL EXAMINATION

The final examination on the thesis and on the related subject matter in the major or the minor fields will be oral. Approximately one year must elapse between the dates of the preliminary examination and the final examination. Two failures on this examination make a student ineligible to continue work toward the Ph.D. degree at Duke University. The second examination may be given only upon the recommendation of the professor in charge of the thesis and the approval of the Dean of the Graduate School.

THE GRADING OF GRADUATE STUDENTS

Members of the Faculty are expected to report the grades of graduate students not later than February 15 for the first semester and not later than June 15 for the second semester on the cards provided for that purpose.

In the grading of graduate students, "S" or satisfactory shall represent work of an acceptable character, "G" or good shall be the next higher grade, and "E" or exceptional shall be the highest grade. "F" or failing indicates that the grade of the student is below passing. In a course in which both graduates and undergraduates are enrolled, the grade "S" shall represent approximately an 80 per cent rating. A mark of "Incomplete" may be given when a student has failed, for an acceptable reason, to complete some portion of the required work in a course in which his standing is generally satisfactory. Unless a report is made within one year that the course has been satisfactorily completed, all credit will be lost.

GENERAL REGULATIONS

Not more than twenty-five students are permitted in a class giving graduate credit, nor are undergraduate students below the Senior year permitted in such a class. Exceptions to these rules may be made by special permission of the Graduate School Council on recommendation of the department concerned.

In courses exclusively for graduates, students may be given extra credit in semester hours for extra work done, with the approval of the Graduate School Council on recommendation of the department.

THE LIBRARY

The total number of volumes in the University Library on June 30, 1939, was 569,140 volumes. These are distributed among four main units: the General Library with 429,082 volumes; the Hospital (Medical) Library, 36,596 volumes; the Library of the Law School, 61,403 volumes; and the Woman's College Library, 42,637 volumes.

The work of students in the Graduate School is carried on primarily in the General Library. A Graduate Reading Room, which contains the reference material most in demand, provides a quiet and convenient place for study. Graduate students are also admitted freely to the stacks. Within the stacks are located 108 carrells or desks which are assigned on an annual basis, preference being given to students in the Graduate School. To facilitate work in the natural sciences, the General Library maintains departmental libraries adjacent to laboratories for the Departments of Chemistry, Physics, and Biology. A departmental library is also maintained for the School of Religion.

In the field of mathematics and the sciences particular attention has been given to securing files of important journals and serials. A checklist of all scientific periodicals and serials on the University campus shows a total of approximately 2,120 files in a more or less complete

form. The total number of current periodicals received by subscription, exchange, and gift in 1938-39 was 2,931, exclusive of duplicates.

In the field of the social sciences and the humanities every effort has been made to secure the basic collections of source material as well as the more important publications of criticism and discussion. This has been done by the acquisition of such sets as the *Die Griechischen Christlichen Schriftsteller der ersten drei Jahrhunderte, Corpus Scriptorum Ecclesiasticorum Latinorum,* Migne's *Patrologia,* the *Corpus Scriptorum Historia Byzantiae,* the *Monumenta Historica Germaniae,* the *Acta Sanctorum,* the *Corpus Reformatorum,* complete files of the publications of the League of Nations, the International Labor Office, and many others. The endeavor to select the more important items in the various fields of graduate work has been supplemented by the purchase of a number of special collections and libraries. Among the more important of these might be mentioned a Peruvian library of approximately three thousand books and manuscripts; a library of several thousand volumes dealing with Brazil; the recently acquired Robertson library of Philippiniana; the Lanson Collection of French literature consisting of twelve thousand books and monographs; a Goethe collection of one thousand volumes; a Scandinavian collection of three thousand volumes; a collection of about five thousand items of early Americana, dating from the seventeenth century to 1820; the Holl church history library dealing primarily with the period of the Reformation; a collection of many thousands of church minutes and records of American denominational history; two collections of eighteenth-century English poetry and prose totaling about five thousand items; two special collections, one dealing primarily with Byron and the other with Coleridge, containing a number of manuscripts, annotated copies, and first editions; a collection of material on the Fourier movement; and the Thomas Collection of books on Chinese history and culture. Special mention should be made of the George Washington Flowers Collection of manuscripts, books, newspapers, and pamphlets dealing with all phases of Southern history.

PUBLIC DOCUMENTS

The importance of public documents as fundamental source materials for the social sciences and as containing also some of the most important work in the field of applied science is being clearly recognized, and an excellent start has been made toward a comprehensive collection of this material. The Library has been a depository for Federal documents since 1890. State documentary publications are also being systematically collected in co-operation with the University of North Carolina. Of European public documents a representative collection has been secured. Among the more notable items might be mentioned the *British Parliamentary Papers* (since 1925), *Calendar of State Papers,* the *Acts of the Privy Council, Hansard's Debates,* the *Débats Parlementaires* of the French Senate and Chamber of Deputies, the *Journal Officiel de la République Française,* the *Bulletin des Lois de la République Française,* the *Reichsgesetzblatt,* the *Verhandlungen des Reichstages,* the *Atti* of the Italian

Parliament, and the *Diario* of the Spanish *Cortes*. The public documents of the Latin-American countries form one of the strongest units of the Library.

Under this heading should be mentioned also the library of Professor Louis Strisower, sometime president of the Institut de Droit International, which contains approximately five thousand volumes dealing with international law. The volumes date from the seventeenth century to the present and contain some especially valuable periodical files and rare books.

PUBLICATIONS OF EUROPEAN ACADEMIES

The Duke University Library has more than twenty-five sets of European academies containing monographs in most of the fields of knowledge and constituting important sources for the research programs of graduate students and Faculty. The sets comprise about two thousand volumes and include *Preussische Akademie der Wissenschaften* (Berlin); *Gesellschaft der Wissenschaften zu Göttingen; Sächsische Akademie der Wissenschaften* (Leipzig); *Bayerische Akademie der Wissenschaften* (Munich); *Heidelberger Akademie der Wissenschaften; Akademie der Wissenschaften* (Vienna); *Académie des sciences* (Paris); *Académie des inscriptions et belles-lettres* (Paris); *Académie des sciences morales et politiques* (Paris); *Accademia virgiliana de scienze, lettre ed arti di Mantova; Accademia dei lincei* (Rome); *Accademia nazionale dei lincei; Accademia d'Italia* (Rome); *Accademia pontificia dei nuova lincei* (Rome); *Academia de ciencias y artes* (Barcelona); *Real academia española; Academia de la historia* (Madrid); *Akademia nauk* (Leningrad); *Dansk videnskabernes selskab* (Copenhagen); *Norsk videnskapsakademi i Oslo; Akademie van Wetenschappen* (Amsterdam); *Académie royale des sciences, des lettres et des beaux-arts de Belgique* (Brussels); *Akademija umiejetnosci* (Krakow).

NEWSPAPERS

The Library collection of newspapers contains around twelve thousand volumes. Practically all states of the Union are represented, although the major part of the collection is from along the Atlantic seaboard. Of the eighteenth-century items, the states best represented are Massachusetts, Maryland, New York, Rhode Island, Virginia, North Carolina, South Carolina, and Georgia. There is an excellent collection of nineteenth-century New England papers. There are especially long runs of the *New York Herald, New York Times, New York Tribune*, and the London *Times*. The World War period is unusually strong with about twenty-eight titles practically complete for 1914-19. There is a group of papers from Germany in the years just after the World War. Special emphasis has been placed on the Southern States, and there are numerous volumes of papers from North Carolina, South Carolina, and Virginia, representing the Colonial period, the Ante-Bellum period, and the Civil War period. The current subscription list of eighty-four titles repre-

sents American public opinion and contains nineteen important foreign titles.

Manuscripts

The manuscript collection now contains approximately 581,000 pieces. Outstanding items include one notable Greek manuscript of the thirteenth century containing the entire New Testament. In the field of English literature there is an interesting body of Rossetti material. For the most part, however, the collection relates to the South Atlantic region. The field of American literature is represented by the papers of Paul Hamilton Hayne, Thomas Holley Chivers, William Gilmore Simms, John Esten Cooke, George Frederick Holmes, and Thomas Nelson Page. Material is most copious in the field of history, where the papers of both well-known and minor figures provide a well-rounded picture of life in the South during the nineteenth century. Aside from politics, information can be found on all phases of social and economic life. Particular attention is given to the period of the Civil War, with the result that the collection is rich in material on civic and social as well as military phases of that conflict. Of interest for historical studies are the papers of P. G. T. Beauregard, John C. Calhoun, John J. Crittenden, John Clopton, William H. Crawford, Jefferson Davis, James Mercer Garnett, Nathanael Greene, Louis M. Goldsborough, David B. Harris, William W. Holden, T. J. (Stonewall) Jackson, John M. Kell, Robert E. Lee, Francis R. Lassiter, George McDuffie, A. T. Mahan, Willie P. Mangum, Matthew Fontaine Maury, Francis W. Pickens, Richard Singleton, and Alexander H. Stephens. The manuscript collection is increasing at the rate of about fifty thousand items annually.

Exchange Privileges with the Library of the University of North Carolina

The libraries of Duke University and of the University of North Carolina have completed arrangements for the fullest exchange of privileges and resources. Each library contains a catalogue of the contents of the other, and books requested from the other library are supplied through a delivery service which operates daily except Saturdays and Sundays. Faculty members and graduate students may secure cards admitting them to the stacks of the other library. The Library of the University of North Carolina contains approximately 374,000 volumes, besides a large collection of manuscripts relating to Southern history. Through this arrangement more than 944,000 volumes are available to students in the combined libraries.

SCIENCE LABORATORIES

BIOLOGICAL LABORATORIES

The Biology Building on the West Campus contains three refrigerated rooms, an incineration room, a workshop, an aquarium room, five animal rooms connected with outside yards, and eight dark rooms. Special laboratories are provided for advanced work in plant and animal physiology,

parasitology, cytology, taxonomy, bacteriology, ecology, histology, mycology, anatomy, embryology, endocrinology, entomology, forest soils, and wood anatomy and properties. A 300-acre arboretum is being developed adjacent to the campus with Dr. E. S. Harrar in charge of its development. A greenhouse gives adequate space for experimental work and propagation. There is an herbarium of some fifty thousand specimens of all plant groups with a large representation of the Southern flora. Dr. H. J. Oosting is Curator of the Herbarium, and Dr. Irving E. Gray is the Curator of the Zoological Museum. On the East Campus, laboratories are provided for undergraduate women, and there is a small greenhouse near the Science Building. Laboratories and rooms for students doing research are equipped with vacuum, compressed air, direct and alternating current, gas, and running water. Proper equipment and supplies for biological work are available.

The Duke Forest and its streams provide excellent collecting grounds. The Duke Forest is under the management of the School of Forestry. Duke University is situated in the Piedmont region, between the mountains and the coastal plains. This gives easy access to a varied flora and fauna. North Carolina is the home of the tulip poplar, holly, rhododendron, mountain laurel, flowering dogwood, several species of insect-catching plants, cypress, and other interesting plants. Among the animals are a varied assortment which range from marine to montane species. In the woods about the University there is a great variety of animals.

The Marine Laboratory at Beaufort, North Carolina, provides facilities for work on plants and animals in and near the ocean. It is situated on Piver's Island, adjacent to the Biological Laboratory of the United States Bureau of Fisheries.

PHYSICAL LABORATORIES

The physical laboratory contains approximately an acre of floor space which is devoted to instruction and research. In addition to the usual lecture and elementary laboratory facilities, laboratories are provided for work in electrical measurements, optics, atomic physics, and advanced measurements in general physics.

Rooms are provided for various instruments of research in spectroscopy, such as a 10-foot concave grating which is used in conjunction with a 32-meter-long stainless steel pipe for study of weak absorption; a vacuum spectograph with a 2-meter glass grating; an apparatus for the study of the Raman spectra of gases photographed with a large 3-prism glass f 2.5 glass Zeiss spectrograph and various other spectroscopic instruments, such as the Hilger E-1, Moll microphotometer, etc.

A transformer high-voltage outfit generating voltages up to 500 KV makes possible the study of a number of problems in nuclear physics. Research facilities, such as counters, cloud chambers and ionization chambers, are available for the study of the properties of extremely high energy particles such as those present in the cosmic radiation.

A well-equipped shop operated by trained instrument makers makes possible the development of instructional and research apparatus. A shop is also provided for the use of the Staff and graduate students.

CHEMISTRY LABORATORIES

Graduate work in chemistry is carried on in a new building which has a floor area of about 57,000 square feet. The equipment of this building is modern in every respect. Of this total space a large proportion is available for research and advanced teaching. There are twenty-five double research rooms completely equipped with the usual services. In addition, the following specially designed rooms are available for present or future research as indicated: a low temperature room, photographic room, constant temperature room, gas analysis room, combustion room, bomb room, animal room, and rooms equipped for high vacuum, X-ray, and photochemical investigations.

A glass-blowing room and a well-equipped shop, operated by a competent mechanic, provide facilities for the construction of special apparatus and for the repair and maintenance of instruments.

MEDICAL SCHOOL

In the School of Medicine elaborate facilities are provided for post-graduate research in the various branches of medical science. Especial attention is given to training in preventive medicine and public health work. Graduate students in the Graduate School of Arts and Sciences taking work in Anatomy, Bacteriology, Immunology, Biochemistry, Physiology and Pharmacology, and Nutrition will find complete laboratory equipment and medical library in the Medical School Building.

THE DUKE FOREST

Through placing the Duke Forest under intensive management for forestry purposes, substantial progress has been made in developing the educational work and research in forestry. The Duke Forest consists of approximately five thousand acres of land, most of which is adjacent and easily accessible to the University campus. Situated in the lower Piedmont region, composed of second-growth shortleaf pine, loblolly pine, and hardwoods, the Forest is representative of the various types of timber growth and soils found throughout the region.

Owing to the proximity of the Forest to the laboratories, greenhouses, and library facilities of the University, an excellent opportunity exists for advanced study and research in forestry. Research, particularly in the fields of silvics, forest soils, silviculture, forest management, properties of wood, forest-tree physiology, and forest pathology, is well under way. Several members of the Botany and Zoology Staffs are also engaged on research in the Duke Forest.

For additional information, see the *Bulletin of the School of Forestry.*

ENCOURAGEMENT OF RESEARCH

The President of the University appoints annually a University Council on Research. The twelve members of this Council are chosen from the Faculties of the Schools of Medicine, Law, and Religion, and the Graduate School of Arts and Sciences. In May of each year the Council on Research receives written applications from members of the Faculty for subsidies to be used in the following fiscal year to aid them in carrying out research projects. Stipends are granted for the employment of research assistants, for the purchase of books and for apparatus, supplies, and equipment. Each member of the Faculty to whom a research stipend is granted must make a written report within twelve months to the Council concerning the progress of the investigation for which the stipend was allowed.

SPECIAL LECTURES

During each academic year the University Lecture Committee arranges for a number of special lectures of value to graduate students interested in various fields of knowledge. The Woman's College Lecture Series brings other eminent guests to the campus. In addition to these lectures, a number of distinguished speakers appear each year on the programs of various schools and departments of the University.

Among the guest lecturers in 1939-40 were Mr. Archibald Rutledge, Poet Laureate of South Carolina; Mr. Turner Catledge, Washington correspondent of the *New York Times;* Mr. Victor Wolfgang von Hagen, writer and explorer; Mr. Alfred Duff Cooper, former First Lord of the British Admiralty; Mr. H. R. Knickerbocker, war correspondent for the International News Service.

THE UNIVERSITY PRESS

As far back as 1897 Trinity College began sponsoring the publication of *The Papers of the Trinity College Historical Society,* which were distributed to members of the Society and on exchange to other institutions. This was the first publishing venture of the College.

In 1902, the 9019, an honor scholastic society on the campus, sponsored the launching of *The South Atlantic Quarterly,* which was later taken over by the Press.

In 1925 after the acceptance of the indenture of trust of James B. Duke, Trinity College became Duke University, and the following year the University Press was organized to publish the results of research engaged in by the Faculty and such other works as were approved by a board of editors appointed for the purpose. One of the first steps of the new organization was to revive *The Hispanic American Historical Review,* which had been founded and published from 1918 to 1922 by a group of scholars interested in Hispanic America. Since 1926 its publication has been continued without interruption and its mission has been supplemented by the publication of many studies dealing with the history, politics, and foreign relations of the Hispanic nations of the New World.

In 1929 *American Literature* was begun with the co-operation of the American Literature Group of the Modern Language Association. This journal was followed in 1931 by *Ecological Monographs,* a quarterly sponsored by the Ecological Society of America to take care of papers too long for inclusion in *Ecology.*

Character and Personality was founded in 1932 to offer a medium for the publication of studies in fields related to this phase of psychology. It is an international quarterly which appears simultaneously in the United States and Great Britain. A German edition formerly published in Germany has been forced to suspend publication.

Besides these regular quarterly publications the Press has issued *Duke University Psychological Monographs,* the title of which has been changed to *Contributions to Psychological Theory,* and *Duke University Research Studies in Education* sponsored by the Department of Education of the University.

In 1935 the Press started the publication of the *Duke Mathematical Journal,* with the co-operation of the Mathematical Association of America, and *The Journal of Parapsychology* (1937)* for the publication of the results of research in psychoanalysis, mental telepathy, and allied studies. For the Southern Association of Colleges and Secondary Schools, the Press publishes *The Southern Association Quarterly,* official organ of the Association. The Law School issues another quarterly, *Law and Contemporary Problems,* carrying a symposium of some important legal problem in each number.

Previous to the existence of the Press, Duke University, formerly Trinity College, had published several important books under its own imprint. Since the organization of the Press it has continued to offer to the public the products of able scholarly research. It has not limited its scope to any one field or to any one group of authors. In addition to the many works submitted by members of the Faculty, a great number of manuscripts by authors who had no connection with the University have been issued under the imprint of the Press.

In the broadest sense, the policy of the Press is to give to the public any work which, because of the merit of its contents, its style, and its general value, deserves publication.

THE BUREAU OF APPOINTMENTS

The University maintains a Bureau of Appointments, whose services are extended to all graduate students without charge. Although placement of students in employment is most frequent in the fields of high-school teaching and industrial or commercial work, graduate students interested in college teaching or other activities should register with the Bureau and provide letters of recommendation in order to make available in one center information respecting their various qualifications for the employment they seek.

* This periodical is now published twice a year by its editors, Professors Gardner Murphy of Columbia University and Bernard F. Riess of Hunter College, in New York City.

GRADUATE STUDY IN THE SUMMER SCHOOL

The Duke University Summer School is divided into two consecutive terms of six weeks each, in 1940 beginning June 12 and ending September 3. Graduate students who wish to work toward advanced degrees in the Summer School, particularly in Education, English, and History, will find a wide selection of courses offered by members of the Duke Faculty and by visiting professors. Students in Botany and Zoology have unusual opportunities for research and study at the Marine Laboratory near Beaufort, North Carolina, besides regular course offerings at the University.

Graduate students who present more than fifteen semester hours earned in summer sessions toward the Master's degree must meet a minimum residence requirement of thirty-three weeks. No graduate student may register for more than six semester hours of credit in one summer session of six weeks. All the work presented for the Master's degree must be completed within six years from the date of beginning. Work completed earlier is not accepted toward either the course or residence requirements. Not more than one year of summer work is accepted toward the residence requirements for the Ph.D. degree.

A bulletin containing information regarding the graduate courses to be offered during the summer of 1940 may be obtained by addressing the Director of the Summer School, Duke University, Durham, N. C. Summer School graduate students who desire to be admitted to graduate courses to work toward advanced degrees should make application to the Dean of the Graduate School by May 25 for admission to the first summer session and by July 15 for admission to the second summer session. They should also request the registrar of the college(s) attended to send to the Dean of the Graduate School an official transcript of their undergraduate record.

COURSES OF INSTRUCTION

Unless otherwise stated, all courses listed in this catalogue will be given on the West Campus. For those courses offered on the East Campus (E) *will be inserted following the description. In general, courses with odd numbers are offered in the first semester, those with even numbers in the second semester. Some seminars bearing a single number continue throughout the year; in such cases it is indicated whether the semester hours of credit apply to the year or to each semester.*

DIVISION OF ANCIENT LANGUAGES AND LITERATURES

PROFESSOR BRANSCOMB, CHAIRMAN; PROFESSORS PEPPLER, ROGERS, AND ROSBOROUGH;* ASSOCIATE PROFESSOR STINESPRING; ASSISTANT PROFESSORS CLARK, GATES, AND WAY; DRS. ROSE AND TRUESDALE

GREEK

FOR SENIORS AND GRADUATES

201-202. Greek Tragedy.—6 s.h. PROFESSOR PEPPLER

203-204. Homer.—*Odyssey.* **Pindar and Bacchylides.** 6 s.h. DR. TRUESDALE

205-206. Greek Historians.—6 s.h. PROFESSOR PEPPLER

207-208. Greek Orators.—6 s.h. ASSISTANT PROFESSOR WAY

209-210. Plato.—*Symposium, Protagoras,* and parts of the *Republic.* 6 s.h. ASSISTANT PROFESSOR WAY

211-212. Aristophanes.—6 s.h. PROFESSOR PEPPLER

(Only one of the six courses listed above is offered each year.)

243. Athenian Topography.—The topography and monuments of ancient Athens. 3 s.h. ASSISTANT PROFESSOR WAY

244. Greek Epigraphy.—Lectures on the history of the alphabet and the development of the local Greek alphabets, followed by extensive reading of inscriptional texts in facsimile. 3 s.h. ASSISTANT PROFESSOR WAY

245. Greek Dialects.—A linguistic study of transliterated inscriptions illustrative of the major Greek dialects. The interrelations of the dialectal forms are examined, with reference, where possible, to their origin in pro-ethnic Greek. 3 s.h. ASSISTANT PROFESSOR WAY

246. Greek Historical Inscriptions.—The more valuable historical inscriptions are read in chronological order and interpreted in their general bearing upon the course of Greek history. 3 s.h. ASSISTANT PROFESSOR WAY

247-248. Greek Archaeology.—Advanced course in the general field for Seniors and Graduates, comprising architecture, sculpture, vases, and the minor arts. 6 s.h. ASSISTANT PROFESSOR WAY

(Of the courses numbered from 243 to 248, only two semester-courses are offered each year.)

* Absent on leave, 1940-41.

FOR GRADUATES

The more advanced work of the graduate department is done in the seminar. One author or group of authors forms the center of study each year. Seminars are offered in **Aristophanes (301-302)**, **The Greek Historians (303-304)**, **The Attic Orators (305-306)**, and **The Greek Tragic Poets (307-308)**. These run through a cycle of four years. In 1940-41 the work will be:

307-308. Seminar in the Greek Tragic Poets.—6 s.h. PROFESSOR PEPPLER

RELATED COURSES IN OTHER DEPARTMENTS

Phil. 217. Philosophy of Aristotle.—3 s.h. DR. MCLARTY

N.T. 218. Galatians and I Corinthians.—3 s.h. ASSISTANT PROFESSOR CLARK

N.T. 315. Hellenistic Religions at the Beginning of the Christian Era.—3 s.h. ASSISTANT PROFESSOR CLARK

N.T. 318. The Text of the New Testament.—3 s.h. ASSISTANT PROFESSOR CLARK

By a co-operative arrangement graduate students of Duke University may take the following courses at the University of North Carolina with the approval of the Dean of the Graduate School and the Head of the Greek Department at Duke:

Homer.	Professor Epps
Greek Tragedy.	Professor Epps
Greek Comedy.	Professor Epps
The Greek New Testament.	Professor Epps
Greek Historians.	Professor Harland
Hellenic Literature and Its Historical Setting.	Professor Harland
Greek Seminar.	Professors Harland, Epps, and Sanders
The Aegean Civilization.	Professor Harland
Topography of Athens, Olympia, and Delphi.	Professor Harland
Archaeology of the Ancient Near East.	Professor Harland
Hellenic Architecture.	Professor Harland
Hellenic Sculpture.	Professor Harland
Greek Epigraphy.	Professor Harland

Graduate students of Duke University may attend the American School of Classical Studies in Athens, Greece, without charge for tuition, and they are eligible to compete for the fellowships that are offered annually by the School. These consist of two fellowships in Greek archaeology and one in the language, literature, and history of ancient Greece, each with a stipend of $1,300. They are awarded mainly on the basis of examinations held in the beginning of February of each year.

LATIN AND ROMAN STUDIES

All candidates for the degree of Master of Arts are required to complete one Latin seminar of six semester hours, and candidates for the doctorate with a major in the Department are required to complete three seminars of six semester hours each. A satisfactory working knowledge of French and German is a necessity for graduate students in Classics, and Italian is desirable.

N.B. All students desirous of pursuing any of the courses here listed are expected to attend the meeting of Staff and students at 2:00 P.M. in 207 Carr Building on the day before final registration day to get their courses arranged and scheduled.

FOR SENIORS AND GRADUATES

201. Roman Fiction.
[Not offered in 1940-41]

202. Latin Christian Writers.
[Not offered in 1940-41]

203-204. Roman Epic: Ennius, Vergil, Manilius, Lucan, Flaccus, Statius, Silius.—A study of this literary genre, and its development by Roman writers; extensive reading of the Roman epics. *Not offered if 205-206 is given.* 6 s.h. (E) ASSISTANT PROFESSOR GATES

205-206. Roman Drama: Plautus, Terence, Seneca.—A rapid reading course in which five plays of Plautus, three of Terence and two of Seneca are studied. 6 s.h. (E) ASSISTANT PROFESSOR GATES

207-208. Roman Philosophy: Lucretius, Cicero, Seneca.
[Not offered in 1940-41]

209-210. Vulgar Latin: Introduction to Romance Philology.
[Not offered in 1940-41]

211-212. Roman Oratory.
[Not offered in 1940-41]

215. Introduction to Roman Art and Archaeology.—*See course 216.*
[Not offered in 1940-41]

216. Topography and Monuments of Ancient Rome.—Lectures and reports treating of the site, development and expansion of the City; city plan, public and private buildings, public works, materials and methods of constructions. *May be offered the first semester in 1940-41.* 3 s.h.
PROFESSOR ROSBOROUGH

251-252. Roman Life.
[Not offered in 1940-41]

281-282. Roman Historical Literature.—A comprehensive reading course in the works of the Roman historians. 6 s.h. PROFESSOR ROGERS

FOR GRADUATES

309-310. Sight Reading and Composition.—Comprehensive reading in special fields of Roman Literature not included in other courses, with which the writing of Latin will be correlated. 6 s.h.
PROFESSOR ROSBOROUGH AND DR. ROSE

311-312. Latin Epigraphy.—Introduction to Latin epigraphy, with considerable practice in reading short inscriptions, *first semester;* and this is followed by a study of important historical inscriptions including the Monumentum Ancyranum, *second semester.* 6 s.h. PROFESSOR ROSBOROUGH

375-376. Greek and Latin Linguistics.—A comparative study of the development of forms and flexions in Greek and Latin. 6 s.h.
PROFESSOR ROSBOROUGH AND DR. ROSE

Seminars: Various authors are selected from year to year as a basis for training in criticism and research. Seminars are offered in the following: **Catullus (301-302), Roman Historians (331-332), Roman Provincial Administration (341-342), The Reign of Tiberius (343-344), Martial (351-352), Horace (361-362),** and **Cicero's Public Career (391-392).** The seminar planned for 1940-1941 is:

391-392. Cicero's Public Career.—6 s.h. PROFESSOR ROGERS

The following courses offered by the University of North Carolina are, under a co-operative agreement, open to graduate students and seniors of Duke University upon approval of the Dean of the Graduate School and the Head of the Department of Latin and Roman Studies:

Roman Dramatic Literature.	Professor Harrer
Roman Historical Literature.	Professor Harrer
Prose Writings of the Republic.	Professor Sanders
Mediaeval Latin.	Professor Johnson
The Satires of Juvenal.	Professor Sanders
Latin Epigraphy.	Professor Harrer
Cicero: Political Career and Works.	Professor Harrer
Comparative Grammar of Greek and Latin.	Professor Lane
Latin Palaeography.	Professor Harrer
Latin Seminar.	Professors Harrer, Johnson, Sanders

SANSKRIT

FOR SENIORS AND GRADUATES

Elementary Sanskrit. PROFESSOR LANE (U.N.C.)

SEMITICS

FOR SENIORS AND GRADUATES

O. T. 201-202. First Hebrew.—The principles and structure of the Hebrew language, with translations of selected Old Testament narratives. **6 s.h.**
ASSOCIATE PROFESSOR STINESPRING

FOR GRADUATES

O. T. 304. Aramaic.—A study of the Aramaic portions of the Old Testament, and selected passages from the Targums, Midrashes, and Talmuds. **3 s.h.**
ASSOCIATE PROFESSOR STINESPRING

O. T. 305-306. Elementary Arabic.—Introduction to the classical language and literature, with some attention to the modern colloquial idiom. **6 s.h.**
[Not offered in 1940-41] ASSOCIATE PROFESSOR STINESPRING

O. T. 307-308. Second Hebrew.—Samuel or Kings the first semester; Isaiah the second. **6 s.h.** ASSOCIATE PROFESSOR STINESPRING

O. T. 309. History of the Ancient Near East.—A survey of the early civilizations of Egypt, Palestine, Syria, and Mesopotamia in the light of Biblical archeology. **3 s.h.** ASSOCIATE PROFESSOR STINESPRING

N. T. 316. Judaism at the Beginning of the Christian Era.—**3 s.h.**
PROFESSOR BRANSCOMB

BOTANY

PROFESSOR BLOMQUIST, CHAIRMAN—203 BIOLOGY BUILDING; PROFESSOR WOLF, DIRECTOR OF GRADUATE STUDIES—315 BIOLOGY BUILDING; ASSOCIATE PROFESSORS HARRAR AND KRAMER; ASSISTANT PROFESSORS ADDOMS, OOSTING, AND PERRY; DR. ANDERSON

FOR SENIORS AND GRADUATES

202. Genetics.—The principles of heredity, their cytological basis, and their bearing on other fields of biology. Laboratory work involves experimental breeding of the fruit fly and interpretation of data from the breeding of plants. Offered in alternate years. Prerequisites: one year of botany, zoology, or equivalent, and college algebra. **4 s.h.**
ASSISTANT PROFESSOR PERRY

203. Plant Cytology.—A study of the structure and organization of plant cells in relation to growth, reproduction, and especially heredity. Prerequisite: two years of botany. **4 s.h.** DR. ANDERSON

204. Advanced Plant Anatomy.—The structure of vegetative and reproductive organs of seed plants, including a consideration of seedling anatomy. Special reference is made to plants of economic importance. Offered in alternate years. Prerequisite: Botany 55 or equivalent. **4 s.h.**
[Not offered in 1940-41] ASSISTANT PROFESSOR ADDOMS

216. Botanical Microtechnique.—Studies in methods of preparing temporary and permanent microscopical slides; theory of staining; the use of the microscope, especially microscopical measurements, drawing, and photomicrography, botanical photography, and lantern slides. Prerequisite: three semesters of botany. **4 s.h.** DR. ANDERSON
[Not offered in 1940-41]

221. Structure and Classification of Fungi.—Prerequisite: two years of botany. **4 s.h.** PROFESSOR WOLF

225-226. Special Problems.—Students with adequate training may do special work in the following fields. Credits to be arranged.

(a) Bacteriology, Mycology, and Plant Pathology. PROFESSOR WOLF

(b) Cytology. DR. ANDERSON

(c) Ecology. ASSISTANT PROFESSOR OOSTING

(d) Genetics. ASSISTANT PROFESSOR PERRY

(e) Morphology and Anatomy of Higher Plants.
ASSOCIATE PROFESSOR HARRAR, ASSISTANT PROFESSORS OOSTING AND ADDOMS

(f) Morphology and Taxonomy of Lower Groups.
PROFESSOR BLOMQUIST AND DR. ANDERSON

(g) Physiology. ASSOCIATE PROFESSOR KRAMER AND ASSISTANT PROFESSOR ADDOMS

(h) Plant Microchemistry. ASSISTANT PROFESSOR ADDOMS

(i) Taxonomy of Higher Groups. PROFESSOR BLOMQUIST

252. Advanced Plant Physiology.—The physico-chemical processes and conditions underlying the physiological processes of plants. Prerequisite: Botany 151 or equivalent; organic chemistry recommended. **4 s.h.**
ASSOCIATE PROFESSOR KRAMER

255. Advanced Taxonomy.—A study of the historical background of plant taxonomy, modern concepts and systems of classification, nomenclatorial problems and the taxonomy of specialized groups. Prerequisite: two years of botany, including Botany 52 or equivalent. **4 s.h.** PROFESSOR BLOMQUIST

256. Field Ecology.—An ecological survey of local vegetation, including theory and practice in the use of instruments for precise habitat studies, and analysis of community and successional relationships. Prerequisites: Botany 1, 2, and 52, or equivalent. **4 s.h.** ASSISTANT PROFESSOR OOSTING
[Not offered in 1940-41]

FOR GRADUATES

305. Plant Geography.—The distribution and limits of vegetation types with special consideration of the plant communities of North America. Offered in alternate years. Prerequisite: Botany 156 or equivalent. **4 s.h.**
ASSISTANT PROFESSOR OOSTING

310. Structure and Classification of Bryophytes and Pteridophytes.—The morphological and systematic characteristics of mosses, liverworts, ferns, and fern allies. Prerequisite: two years of botany. **4 s.h.**
PROFESSOR BLOMQUIST

311. Structure and Classification of Algae.—The morphological and ecological characteristics of the common freshwater and marine forms and the principles underlying their classification. Collecting, identification and the making of permanent microscopical preparations. Prerequisite: two years of botany. **4 s.h.** PROFESSOR BLOMQUIST

341. Methods in Plant Physiology.—The theory and use of apparatus and methods in physiological research. **4 s.h.** ASSOCIATE PROFESSOR KRAMER
[Not offered in 1940-41]

342. Plant Microchemistry.—The identification and estimation of the constituents of plant cells by the use of microchemical tests. Offered in alternate years. **2 s.h.** ASSISTANT PROFESSOR ADDOMS

359-360. Research in Botany.—Individual investigation in the various fields of botany. Credits to be arranged. STAFF

397-398. General Botanical Seminar.—One hour per week throughout the year. Required of all graduates majoring in botany. **2 s.h.** STAFF

FOREST BOTANY

FOR SENIORS AND GRADUATES

224. Forest Pathology.—Special reference to diseases of forest trees. Offered in alternate years. Prerequisites: Botany 1, 2. **3 or 4 s.h.**
PROFESSOR WOLF

253. Dendrology.—The characteristics, identification, and taxonomy of trees and shrubs with special reference to species native to North Carolina and other important forest regions of the United States. Studies of special groups included. Prerequisite: two years of botany. **4 s.h.**
ASSOCIATE PROFESSOR HARRAR

RELATED COURSES IN OTHER DEPARTMENTS

These related courses may be counted toward a major in Botany.

Zoology 341. Historical and Philosophical Zoology.—**2 s.h.**
PROFESSOR HARGITT

Forestry 257. Design of Forestry Experiments and Analysis of Data.—**5 s.h.** PROFESSOR SCHUMACHER

CHEMISTRY

PROFESSOR GROSS, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES—219 CHEMISTRY BUILDING; PROFESSORS LONDON, VOSBURGH, AND WILSON; ASSOCIATE PROFESSOR BIGELOW; ASSISTANT PROFESSORS HAUSER* AND SAYLOR; DRS. BRADSHER, BROWN, HILL, AND HOBBS

The graduate work in the Department is planned so as to provide a broad basic training in the fields of inorganic, organic, analytical and physical chemistry. The selection of the research problem for the A.M. or Ph.D. degree determines in which field further specialization takes place.

* Absent on leave, first semester, 1940-41.

In the requirements for the Ph.D. degree the most emphasis is placed on the successful completion, under the direction of a member of the Staff, of a research program leading to the solution of an original problem.

FOR SENIORS AND GRADUATES

215-216. **Advanced Inorganic Chemistry.**—A study of modern theories of valence and molecular structure; also of inorganic compounds, particularly the less common types, the colloidal state of matter, and the phase rule, illustrated by suitable laboratory preparations. Prerequisites: Chemistry 70 and 151-152. Chemistry 261-262, Physics 59-60 or 213-214 and ability to read German are desirable. **6 s.h.** PROFESSOR VOSBURGH AND DR. HILL
[Not offered in 1940-41]

241. **Physiological Chemistry.**—A study of the chemistry of human physiology. Clinical aspects of the subject are treated with reference to the need of prospective medical students. Two recitations and six laboratory hours. Prerequisites: Chemistry 70 and 151-152. Course 261-262 is desirable though not required. **4 s.h.** PROFESSOR WILSON

242. **Metabolism.**—Open to students who have completed course 241 or its equivalent, and who have a reading knowledge of German. Lectures and collateral reading deal with the probable fate of foodstuffs in the body, the nitrogen balance, energy requirement, nutritive ratios, vital factors, and ductless glands. The laboratory work consists mainly of blood analysis under both normal and pathological conditions. The laboratory or lectures may be taken separately. Two lectures, credit **2 s.h.**, and 6 laboratory hours, credit **2 s.h.** **4 s.h.** PROFESSOR WILSON

253-254. **Advanced Organic Chemistry.**—A continuation of Chemistry 151-152, including discussion of the theories of organic chemistry. The laboratory work will include qualitative organic analysis, together with preparations of the more difficult type, requiring reference to the original literature. Two lectures and three or six laboratory hours. Prerequisites: Chemistry 151-152 or equivalent and a reading knowledge of German. **6 or 8 s.h.**
ASSOCIATE PROFESSOR BIGELOW, ASSISTANT PROFESSOR HAUSER, AND DR. BROWN

261-262. **Physical Chemistry.**—Fundamentals of general theoretical chemistry illustrated by selected laboratory experiments. Two recitations and three laboratory hours. Prerequisites: Chemistry 70, 151-152, Physics 1-2 or equivalent and Mathematics 7-8 or equivalent. Calculus is desirable but is not required. Undergraduates are admitted to this course only by permission of the Director of Undergraduate Studies. **6 s.h.**
PROFESSOR GROSS, ASSISTANT PROFESSOR SAYLOR, AND DR. HOBBS

271. **Introduction to Research.**—Lectures on the use of chemical literature, research methods, recording and publication of results, preparation of theses and other topics. One lecture. **1 s.h.**
PROFESSORS GROSS AND VOSBURGH, AND ASSOCIATE PROFESSOR BIGELOW
[Not offered in 1940-41]

273-274. **Seminar.**—Required of all graduate students in chemistry. One hour a week discussion. **2 s.h.**
PROFESSORS GROSS AND VOSBURGH; ASSOCIATE PROFESSOR BIGELOW; ASSISTANT PROFESSORS HAUSER AND SAYLOR; DRS. BRADSHER, BROWN, HILL, AND HOBBS

275-276. Research.—The aim of this course is to give instruction in methods used in the investigation of original problems. It is open to Seniors who have had courses 70, 151-152, and who are taking 261-262. Nine hours a week and conferences. **3 or 6 s.h.**
PROFESSORS GROSS, LONDON, VOSBURGH AND WILSON; ASSOCIATE PROFESSOR BIGELOW; ASSISTANT PROFESSORS HAUSER AND SAYLOR; DRS. BRADSHER, BROWN, HILL, AND HOBBS

FOR GRADUATES

303. Thermodynamics.—Fundamental laws of thermodynamics and their applications to chemistry and physics. Offered jointly by the Departments of Chemistry and Physics. **3 s.h.** PROFESSORS GROSS AND SPONER

304. Chemical Thermodynamics.—A continuation of course 303 with emphasis on applications to chemical problems. The topics considered include chemical equilibrium, theory of solutions, reaction kinetics and dipole theory. **3 s.h.** PROFESSORS GROSS AND VOSBURGH

351-352. Advanced Synthetic Organic Chemistry.—Recent advances in certain selected fields, such as medicinals, dyes, perfumes, terpenes, and alkaloids, will be discussed. The emphasis will be placed on structure studies and synthetic methods. Lecture or seminar one hour each week. **2 s.h.**
ASSOCIATE PROFESSOR BIGELOW AND ASSISTANT PROFESSOR HAUSER

363-364. Advanced Physical Chemistry.—A discussion of selected theories of solution, of reaction velocity and catalysis and of molecular forces and structure. Prerequisites: Chemistry 261-262 or its equivalent and calculus. **6 s.h.** PROFESSORS GROSS AND VOSBURGH; ASSISTANT PROFESSOR SAYLOR; DRS. HILL AND HOBBS

365-366. Chemical Physics. Statistical Theory, Principles and Applications.—General introduction to statistical methods and applications to chemical problems; solution theory, reaction velocity, changes of state, quantum statistics and the metallic state. Two lectures and one conference. **6 s.h.**
PROFESSOR LONDON

367-368. Chemical Physics. Theoretical Aspects of Atomic and Molecular Structure.—Theories of the chemical bond; atomic and molecular forces. Two lectures and one conference. **6 s.h.** PROFESSOR LONDON
[Not offered in 1940-41]

RELATED COURSES IN OTHER DEPARTMENTS
BIOCHEMISTRY

M241. General Biochemistry.—Prerequisites: general chemistry, organic chemistry, elementary physical and analytical chemistry and at least one year of college biology. *Winter quarter.* **6 s.h.**
DRS. PERLZWEIG AND TAYLOR, AND STAFF

M242. Biochemical Preparations.—Prerequisite: Biochemistry M241. *Spring, summer, fall quarters.* Hours by arrangement. **2 s.h.**
DR. TAYLOR AND STAFF

M243-244. Physical Chemical and Colloid Chemical Principles of Biochemistry.—Two hours per week throughout the year. DR. NEURATH

M341. Pathological Chemistry.—Two hours per week by arrangement. *Winter, spring, and summer quarters.* Prerequisites: Biochemistry M241 and Physiology M261-2. DRS. PERLZWEIG, TAYLOR, AND M. L. C. BERNHEIM

M363-4. Advanced Seminar in Nutrition.—Prerequisites: Biochemistry M241 and Physiology M261 or equivalents. Two hours weekly. **4 s.h.**
DR. DANN

BOTANY

342. Plant Microchemistry.—2 s.h. ASSISTANT PROFESSOR ADDOMS

PHYSICS

323. Theory of Atomic Spectra.—3 s.h. PROFESSOR SPONER
[Not offered in 1940-41]

324. Theory of Molecular Spectra.—3 s.h. PROFESSOR SPONER
[Not offered in 1940-41]

ECONOMICS AND BUSINESS ADMINISTRATION

PROFESSOR GLASSON, CHAIRMAN—105 SCHOOL OF RELIGION; PROFESSOR HAMILTON, DIRECTOR OF GRADUATE STUDIES—503 LIBRARY; PROFESSORS HOOVER, SPENGLER, AND VON BECKERATH; ASSOCIATE PROFESSORS DE VYVER AND RATCHFORD; ASSISTANT PROFESSORS BLACK, EITEMAN, LESTER, AND SPRINGER

FOR SENIORS AND GRADUATES

217. Business Cycles.—Description and analysis of the causes and consequences of economic rhythms and movements of various lengths (e.g., seasonal, cyclical, long-period, etc.). Analysis of methods proposed as means of curtailing such movements, or of mitigating their effects. **3 s.h.**
PROFESSOR SPENGLER

218. Population Problems and the Standard of Living.—A critical survey of the economic laws of returns and of pre- and post-Malthusian population theory; consideration of the relation between natural increase and the laws of economic distribution and of the effects of changes in the rate of natural increase upon various classes of industry and upon employment; examination of the factors which govern population growth and of current population trends; analysis of international economic and political problems which are founded upon population pressure; consideration of the economic and the biological aspects of differential birth rates. **3 s.h.** PROFESSOR SPENGLER

230. Public Debts in the United States.—A study of the characteristics of public credit as shown by the experience of national, state, and local governments in the United States. Topics considered include: forms, methods, and purposes of borrowing; effects of the contraction and repayment of debts on governmental fiscal policies, the banking and credit system, and business activity; methods of controlling or limiting debts; refunding and adjustment procedures; defaults and repudiations. **3 s.h.** ASSOCIATE PROFESSOR RATCHFORD

231. The Economic History of Modern Europe.—A study of the economic development of Europe since the sixteenth century, treating such topics as the guilds, mercantilism, money, banking, crises, the commercial revolution, and the industrial revolution. The rise of modern capitalism and the historical backgrounds of present economic problems will be emphasized. **3 s.h.**
PROFESSOR HAMILTON

232. The Economic History of the United States.—A study of the agricultural, industrial, commercial, and financial progress of the United States from Colonial times to the present day. Special attention will be devoted to mass production, business cycles, great fortunes, and the relationships between government and business. **3 s.h.** PROFESSOR HAMILTON

233. **State and Local Finance.**—A study of expenditures, taxation, and financial administration in state and local governments with emphasis on current problems. Special attention will be given to research methods and materials and to the financial relations between state and local governments. Prerequisite: Economics 187 or equivalent. **3 s.h.**
ASSOCIATE PROFESSOR RATCHFORD

234. **Federal Finance.**—A study of the expenditures, revenues, and financial administration of the government of the United States, with emphasis on current problems. Special attention given to budgetary procedure, corporate and individual income taxes, and the financial relations between federal and state governments. Prerequisite: Economics 187 or equivalent. **3 s.h.**
ASSOCIATE PROFESSOR RATCHFORD

237-238. **Statistical Methods.**—A study of statistical methods appropriate for dealing with problems in business and the social sciences. In addition to developing more thoroughly the subjects considered in *Business Statistics,* the following methods will be considered: simple, multiple, partial, and curvilinear correlation; curve fitting; probability; frequency distributions; and reliability of estimates. Prerequisite: Business Statistics 138 or consent of the instructor. **6 s.h.**
ASSISTANT PROFESSOR SPRINGER

239. **Prices.**—A theoretical study of the forces governing price behavior and an historical examination of the fluctuations, disparities, and trends of European and American prices, particularly in periods marked by acute monetary disorder or by rapid change in the stock of the precious metals. Special attention will be devoted to post-war inflation in France and Germany and to the world-wide collapse of prices after 1929. **3 s.h.** PROFESSOR HAMILTON

241-242. **Value and Distribution.**—This course is a critical survey of the leading contemporary explanations of price formation and of the determination of interest, rent, wages, and profits. **6 s.h.** PROFESSOR SPENGLER

245-246. **Problems of Modern Industrialism.**—This course first surveys technological efficiency and market organization as limiting factors in the determination by industrial management of the rational requirements of plant organization. External political and social forces are then introduced into the complex to show modern industrialism as a phase of mature capitalism. Against the background of modern capitalism, the issue and trends of public policy with respect to economic organization in America and Europe are compared and appraised. **6 s.h.** PROFESSOR VON BECKERATH

253. **Labor Problems.**—An examination of present-day labor problems followed by an intensive study of methods used by employers and workers in meeting those problems. **3 s.h.** ASSOCIATE PROFESSOR DE VYVER

256. **Labor Legislation.**—A study of the relations of the state to labor problems with special reference to remedial legislation, to interference in labor disputes, and to social insurance. Prerequisite: Economics 51-52; Economics 253, or with the consent of the instructor. **3 s.h.**
[Not offered in 1940-41] ASSOCIATE PROFESSOR DE VYVER

260. **Social Insurance.**—A consideration of the economic and social problems involved in workmen's compensation laws, unemployment insurance, old-age pensions, and health insurance for workers. Particular attention will be given to the present federal and state social security legislation. **3 s.h.**
ASSOCIATE PROFESSOR DE VYVER

265. **International Trade and Tariff Policies.**—An analysis of the theoretical principles underlying international trade with an historical study of the foreign trade and tariff policies of the United States, France, Germany, and England from the eighteenth century to the present. **3 s.h.**
PROFESSOR VON BECKERATH

266. International Finance.—A study of the mechanism of international payment with attention to international movements of capital, the peculiarities of an inconvertible paper money regime, and related problems. **3 s.h.**
PROFESSOR HAMILTON

268. Competitive versus Monopolistic Enterprise.—(1) Competition as an economic order; (2) competition as a political order; (3) monopoly as a disturbance of (1) and of (2). (4) What can government do for the maintenance of the competitive order? (5) What can the judiciary do for the maintenance of the competitive order? (6) What can business do for the maintenance of the competitive order? (7) Limits and difficulties of a liberal solution. (8) Short discussion of different types of compromise solutions, both in the governmental and the economic field. **3 s.h.**
PROFESSOR VON BECKERATH

275-276. Advanced Industrial Accounting and Management.—This course traces the ways and means of executive control through statistics and industrial accountancy. Emphasis is put upon the economics of overhead costs. A complete practice set of cost accounting is worked by each student during the course. Courses 57-58 and 105 are ordinarily prerequisites for this course. **6 s.h.**
ASSISTANT PROFESSOR BLACK

FOR GRADUATES

311-312. History of Political Economy.—This course traces the development of economic theory, giving special attention to the various schools of economic thought in England, France, Germany, and the United States. A large amount of collateral reading in the works of typical authors is required. Lectures and class discussions. **6 s.h.**
PROFESSOR HAMILTON

313-314. Seminar in Economic Theory.—The course consists of directed research in economic theory. The primary purpose is the correction of authoritative eclecticism and its replacement by individually integrated theory. Prerequisite: Economics 241-242 or its equivalent. **6 s.h.**
PROFESSOR HOOVER

315. Economic Systems.—A study of alternative economic systems. In addition to an analysis of communism, anarchism, and the variants of socialism, the course will include a consideration of other proposed modifications of the existing economic order. Credit for this course will be given only if the student takes Economics 316. **3 s.h.**
PROFESSOR HOOVER

316. Economic Functions of the State.—A consideration of the primary and secondary economic functions of government and of the legislation which provides for the performance of these functions, such as social legislation and the regulation of commerce and industry. Prerequisite: Economics 315 or its equivalent. **3 s.h.**
PROFESSOR HOOVER

318. General Seminar in Economics.—All graduate students with economics as a major subject are members of this seminar. Reports of progress in research will be made, and there will be lectures and critical discussion by members of the Department. Year course. No credit.
STAFF

RELATED COURSES IN OTHER DEPARTMENTS

Attention is called to the following courses in related departments:

Forestry 279. Economics of Forestry.—3 s.h.
ASSOCIATE PROFESSOR THOMSON

History 219-220. The History of the European Proletariat.—6 s.h.
[Not offered in 1940-41]
PROFESSOR CARROLL

Political Science 207. American Constitutional Law and Theory.—3 s.h.
PROFESSOR WILSON

Political Science 209. State and Local Government in the United States.—3 s.h. PROFESSOR RANKIN

Political Science 271. Socio-Politics and Capitalism.—3 s.h. PROFESSOR VON BECKERATH

Sociology 219. Urban Sociology.—3 s.h. ASSISTANT PROFESSOR THOMPSON

Sociology 220. Rural Sociology.—3 s.h. ASSISTANT PROFESSOR THOMPSON

Sociology 227. Emigration and Immigration.—3 s.h.
[Not offered in 1940-41] PROFESSOR JENSEN

EDUCATION

PROFESSOR HOLTON, CHAIRMAN—113 ADMINISTRATION BUILDING; PROFESSOR BROWNELL,* DIRECTOR OF GRADUATE STUDIES—1C WEST DUKE BUILDING; PROFESSORS CARR, CHILDS, AND PROCTOR; ASSOCIATE PROFESSOR SCATES; ASSISTANT PROFESSOR EASLEY

The Department offers a full major of work in educational psychology toward the degree of Doctor of Philosophy, with approved minors in as many as two of the divisions listed for the Master's degree, and an approved minor in psychology or in some other department offering work closely related to the thesis problem of the candidate. It is planned to offer complete majors in other divisions as rapidly as the growth of the Department justifies.

The Department offers work toward the Master of Arts and Master of Education degrees, and minor work toward the Doctor of Philosophy degree, in the divisions of elementary education, experimental education and educational psychology, history and philosophy of education, public school administration, and secondary education and educational sociology. It is important for students who are degree candidates to choose their course according to some unified plan; they are reminded that mere accumulation of more or less unrelated courses in various divisions with minor work in some department only remotely related to the student's major work does not lead to a graduate degree. Every candidate for a Master's degree should elect at least six, and preferably twelve, semester hours of course work in the special division in which he intends to write his thesis. Students who expect to write theses in the history of education are required to take their minor work in American history. Students writing in school administration are advised to elect minor work in economics and political science. Students in educational psychology should elect their minor work in psychology. No student, except by special approval of the Department and of the Graduate School, is permitted to take minor work in more than one department or to the amount of more than six semester hours.

ELEMENTARY EDUCATION

FOR SENIORS AND GRADUATES

207. Technique of Teaching.—An advanced course in the teaching process, dealing with the theory underlying sound technique and applied specifically to the work of the elementary school. 3 s.h. (E) PROFESSOR CARR
[Not offered in 1940-41]

212. Psychology of the Elementary School Subjects.—A study of the psychology of learning as applied to teaching the common school subjects. 3 s.h. (E) PROFESSOR CARR

* Absent on leave, 1940-41.

222. The Curriculum and Materials of the Elementary Grades.—A study of curriculum problems in the elementary schools. **3 s.h.** PROFESSOR CARR

232. Elementary School Supervision.—A survey of supervision as a means of improving instruction and adapting the curriculum to child and community needs. **3 s.h.** (E) PROFESSOR CARR
[Not offered in 1940-41]

EXPERIMENTAL EDUCATION AND EDUCATIONAL PSYCHOLOGY

FOR SENIORS AND GRADUATES

208. Mental Tests and Applications.—A study of the development of intelligence testing, the concept of general intelligence, various recent applications of mental tests, and training in the giving of individual tests. Prerequisite: course 258 or six semester hours of other work in educational psychology or psychology. **3 s.h.** (E) ASSISTANT PROFESSOR EASLEY

209. Statistical Methods Applied to Education.—A study of statistical methods of treating educational and social data designed to enable teachers or administrators to interpret and use the results of scientific investigations in education. **2 s.h.** ASSOCIATE PROFESSOR SCATES

216. Psychological Principles of Secondary Education.—A study of adolescence and the psychology of learning as applied to teaching the principal high-school subjects. **3 s.h.** PROFESSOR CHILDS
[Not offered in 1940-41]

217. Advanced Educational Psychology.—A systematic survey of the field of educational psychology, required of all majors in that field. **3 s.h.** (E) ASSISTANT PROFESSOR EASLEY

218. Educational Implications of Genetic Psychology.—Special section of course 118, intended primarily for graduate students, ordinarily not offered the same year in which 118 is given. Prerequisite: six semester hours of psychology or educational psychology. **3 s.h.** (E) PROFESSOR BROWNELL
[Not offered in 1940-41]

219. Experimental Education.—This course is designed to provide training (1) in planning, (2) in prosecuting, and (3) in reporting quantitative investigations in the field of education, more especially in the field of learning and teaching the various school subjects. **3 s.h.** (E) PROFESSOR BROWNELL
[Not offered in 1940-41]

227. The Psychology of Learning: Problems.—The major problems related to the learning process will be examined, with the experimental literature bearing on them. The curves of learning and forgetting, the distribution of practice, economical methods of learning, and the transfer of training will be the major topics considered. **3 s.h.** ASSISTANT PROFESSOR EASLEY

228. The Psychology of Learning: Theoretical and Experimental.—This is a continuation of course 227. In this semester the laws of learning, the most important explanatory principles, and the major systems of psychology of learning will be considered. Class experiments will run throughout the semester. Prerequisite: course 227 or its equivalent. **3 s.h.** ASSISTANT PROFESSOR EASLEY

237. Investigations in Reading.—A summary of the results of the more important scientific studies in reading; interpretation of the results in terms of aims, methods, materials of instruction, testing diagnosis, and supervision; emphasis on problems requiring further investigation. **3 s.h.** (E) PROFESSOR CARR

247. Investigations in Arithmetic.—An analytical survey of investigations in arithmetic, with three purposes in view: (1) to examine the techniques employed with respect to their adequacy as means of solving the problems attacked; (2) to test the validity of the results announced and the values of these results for the teaching of arithmetic; (3) to locate further problems in arithmetic in need of scientific research. 3 s.h. PROFESSOR BROWNELL
[Not offered in 1940-41]

258. Educational Measurements.—A critical study of the principles and techniques involved in measurement in education, with opportunity for individual research. Prerequisite: twelve semester hours in the Department, including a course in educational psychology. 3 s.h. (E)
ASSOCIATE PROFESSOR SCATES

FOR GRADUATES

307-308. Seminar in Educational Psychology.—Required of graduate students in educational psychology. 4 s.h. (E) ASSISTANT PROFESSOR EASLEY

309-310. Research in Educational Psychology.—This course provides opportunity for more advanced graduate students to engage in individual research projects under close supervision. Credit allowed proportionate to achievement and time devoted to the course. Enrollment by permission of instructor only. 3 to 6 s.h. (E) PROFESSOR BROWNELL
[Not offered in 1940-41]

Education 320. Advanced Educational Statistics.—This course continues the work begun in Education 209, dealing particularly with further methods of correlation and with various applications to the theory of measurement. The course does not require a background of mathematics beyond high-school algebra. 3 s.h. ASSOCIATE PROFESSOR SCATES

338. Research in Reading.—A course designed for students who have original problems in reading which they desire to investigate. Such studies may be either individual or co-operative. Education 237 is advised as a preliminary course, but is not required. 3 s.h. PROFESSOR CARR
[Not offered in 1940-41]

339. Research Course in Educational Tests.—A study of problems in the construction and interpretation of tests. Prerequisite: the equivalent of course 258. 3 s.h. ASSOCIATE PROFESSOR SCATES

348. Research in Arithmetic.—A course designed for students who have original problems in arithmetic which they desire to investigate. Such studies may be either individual or co-operative. Education 247 is advised as a preliminary course, but is not required. 3 s.h. PROFESSOR BROWNELL
[Not offered in 1940-41]

HISTORY AND PHILOSOPHY OF EDUCATION

FOR SENIORS AND GRADUATES

200. Introduction to the Philosophy of Education.—A consideration of fundamental concepts underlying educational theory. 3 s.h. PROFESSOR HOLTON

214. History of Education in the United States.—A study of the development of the American public school and the interaction of higher education and the public school. 3 s.h. PROFESSOR HOLTON
[Not offered in 1940-41]

244. Studies in the Historical Development of Public School Administration.—An advanced course devoted to the development of public school administration in the South, with especial reference to North Carolina as a type. 3 s.h. PROFESSOR HOLTON
[Not offered in 1940-41]

254. **History of Secondary Education in the United States.**—A study of historical and comparative conceptions of the secondary school, changes in American life affecting the secondary school, present status of the secondary school, current tendencies toward expansion, and the problem of state and federal aid. *First semester.* 3 s.h. PROFESSOR PROCTOR
[Not offered in 1940-41]

264. **Recent Movements in American Education.**—An intensive study of educational thought and practice since 1900. 3 s.h. PROFESSOR HOLTON
[Not offered in 1940-41]

294. **Comparative Education: Recent Movements in European Educational Systems.**—A comparative study of the school systems of the principal countries of Europe, with emphasis upon changes since the World War. 3 s.h.
PROFESSOR CARR

PUBLIC SCHOOL ADMINISTRATION

FOR SENIORS AND GRADUATES

203. **Principles of School Administration.**—The fundamental facts and procedures of school administration, an analysis of the problems and policies of the organization and direction of a local school system, and the functions of the various school officials. Prerequisite: Education 103 and 58, or six semester hours of equivalent work in education. 3 s.h. PROFESSOR PROCTOR

233. **Administrative Pupil-Accounting.**—An advanced study of gradation and classification of pupils, with incidental attention to the keeping of records and the making of reports. The study includes a consideration of individual differences, promotions, acceleration, and retardation of pupils; the various plans for classification and gradation; interpreting the results of tests; and some practice in the computation of statistical measures. 3 s.h.
PROFESSOR PROCTOR

234. **Secondary School Organization and Administration.**—A study of the outstanding problems of secondary school organization and administration other than the problem of gradation and classification of pupils. 3 s.h.
PROFESSOR PROCTOR

253. **Legal Phases of School Administration.**—A study of judicial decisions and the development of outstanding features of statute law controlling school administration, with special emphasis upon North Carolina materials. 3 s.h. PROFESSOR HOLTON
[Not offered in 1940-41]

FOR GRADUATES

323. **Public School Finance.**—A study of educational costs, sources of revenue for the support of public education, collection of revenue, basis of distribution, and accounting for funds spent. *Second semester.* 3 s.h.
[Not offered in 1940-41] PROFESSOR PROCTOR

343. **State and County School Administration.**—A study of state and county organization of public schools, emphasizing underlying principles. *Second semester.* 3 s.h. PROFESSOR PROCTOR

363. **City School Administration.**—A study of the organization and administration of city school systems, including administrative phases of supervision. 3 s.h. PROFESSOR PROCTOR
[Not offered in 1940-41]

SECONDARY EDUCATION AND EDUCATIONAL SOCIOLOGY

FOR SENIORS AND GRADUATES

205. **Curriculum Problems in Secondary Education.**—A consideration of the aims and objectives of secondary school subjects, emphasizing practical problems of curriculum-making in the high school. 3 s.h. PROFESSOR CHILDS

206. **Sociological Foundations of the Secondary School Subjects.**—A consideration of the aims and objectives of the secondary school. Prerequisite: six semester hours in education, including course 105. 3 s.h.
PROFESSOR CHILDS

225. **The Teaching of History and the Social Studies.**—Identical with History 211. The course counts as an elective in the Department of Education only when approved by the Department and the instructor. 3 s.h.
ASSISTANT PROFESSOR MANCHESTER

246. **The Teaching of Mathematics.**—Identical with Mathematics 204. The course counts as an elective in the Department of Education only when approved by the Department and the instructor. 3 s.h. PROFESSOR RANKIN

266. **The Teaching of High-School French.**—Identical with French 218. 3 s.h. PROFESSOR WEBB

METHODOLOGY OF RESEARCH

FOR GRADUATES

300. **Methods of Educational Research: Seminar.**—Graduate students are instructed in methods of research as applied to selected educational problems. Each student must select for intensive study and practice a subject in which he is interested. 3 s.h. MEMBERS OF THE DEPARTMENT

RELATED COURSES IN OTHER DEPARTMENTS

FOR MAJORS IN EDUCATIONAL PSYCHOLOGY, ELEMENTARY EDUCATION, AND SECONDARY EDUCATION

Psychology 206. Social Psychology.—3 s.h.
ASSOCIATE PROFESSOR ADAMS

Psychology 209. Experimental Methods in Human Psychology.—4 s.h.
[Not offered in 1940-41] ASSOCIATE PROFESSOR ZENER

Psychology 211. Physiological Psychology.—4 s.h.
[Not offered in 1940-41] ASSOCIATE PROFESSOR ZENER

Psychology 216. Seminar in Comparative Psychology.—2 or 3 s.h.
[Not offered in 1940-41] ASSOCIATE PROFESSOR ADAMS

Psychology 217. Gestalt Theory.—3 s.h. ASSOCIATE PROFESSOR ADAMS
[Not offered in 1940-41]

Psychology 226. Contemporary Schools of Psychology.—*First semester.* 3 s.h. ASSOCIATE PROFESSOR ZENER

Psychology 306. Seminar in Child Psychology.—2 or 3 s.h.
ASSOCIATE PROFESSOR ADAMS

Psychology 309. Theory of Learning.—3 s.h.
[Not offered in 1940-41] ASSOCIATE PROFESSOR ADAMS

Psychology 315. Developmental Psychology.—3 s.h.
ASSOCIATE PROFESSOR ADAMS

Sociology 212. Child Welfare.—3 s.h. PROFESSOR JENSEN
[Not offered in 1940-41]

Sociology 213. Constructive Social Policies.—2 s.h. PROFESSOR JENSEN
[Not offered in 1940-41]

Sociology 232. Cultural Anthropology.—3 s.h. PROFESSOR HART
[Not offered in 1940-41]

Sociology 319. Principles of Sociology.—3 s.h. PROFESSOR ELLWOOD

Sociology 320. History of Social Philosophy.—3 s.h.
PROFESSORS ELLWOOD AND JENSEN

FOR MAJORS IN PUBLIC SCHOOL ADMINISTRATION

Economics 230. Public Debts in the United States.—3 s.h.
ASSOCIATE PROFESSOR RATCHFORD

Political Science 209. State and Local Government in the United States.—3 s.h. PROFESSOR RANKIN

Political Science 291. Municipal Government.—3 s.h. PROFESSOR RANKIN

Religion 365. Seminar in Character Education and the State.—2 s.h.
PROFESSOR SMITH

Sociology 213. Constructive Social Policies.—2 s.h. PROFESSOR JENSEN
[Not offered in 1940-41]

FOR MAJORS IN HISTORY AND PHILOSOPHY OF EDUCATION

History 209-210. Constitutional History of the United States, 1763-1860.—6 s.h. ASSISTANT PROFESSOR STILL

Philosophy 205. The Philosophy of History.—3 s.h. PROFESSOR WIDGERY

Philosophy 208. Political Philosophy.—3 s.h.
ASSOCIATE PROFESSOR MORGAN

Philosophy 223. Contemporary Philosophy.—*Second semester.* 3 s.h.
[Not offered in 1940-41] PROFESSOR WIDGERY

Religion 362. Ethical Theory of Christian Education.—3 s.h.
PROFESSOR SMITH

Religion 363-364. Religious Thought in the Rise of American Culture.—6 s.h. PROFESSOR SMITH

Sociology 319. Principles of Sociology.—3 s.h. PROFESSOR ELLWOOD

Sociology 320. History of Social Philosophy.—3 s.h.
PROFESSORS ELLWOOD AND JENSEN

ENGLISH

PROFESSOR BROWN, CHAIRMAN—2A WEST DUKE BUILDING; PROFESSOR WHITE, DIRECTOR OF GRADUATE STUDIES—401 LIBRARY; PROFESSORS BAUM,* GILBERT,* GOHDES,* HUBBELL, AND IRVING; ASSISTANT PROFESSORS ALLEN, ANDERSON, AND WARD

All graduate students in English must pass a general examination before they will be admitted to candidacy for a degree. This examination is held at the beginning of the autumn semester and must be taken at that time by all new students. Those who do not pass will not be accepted as candidates for a degree during the year in which they fail, but they may take the examination offered to graduate students entering the Summer School at the opening of the first term of the following Summer School.

* Absent on leave, second semester, 1940-41.

FOR SENIORS AND GRADUATES

201-202. **Anglo-Saxon.**—The first half of the year is given to the reading of prose and to a study of the language; the second half, to the reading of *Beowulf*. 6 s.h. PROFESSOR BROWN

203-204. **Chaucer.**—The work consists of the reading and study of the principal *Canterbury Tales*, the *Troilus*, the minor poems, and some of the translations. Students prepare a reading report and a term paper. 6 s.h.
[Only 203 offered in 1940-41] PROFESSOR BAUM

207-208. **English Literature, 1400-1550.**—6 s.h. PROFESSOR BAUM
[Not offered in 1940-41]

209-210. **English Literature other than Drama, 1625-1700.**—6 s.h.
ASSISTANT PROFESSOR WARD

211-212. **English Literature other than Drama, 1550-1625.**—6 s.h.
ASSISTANT PROFESSOR ALLEN

213-214. **Folk-Lore and Folk-Songs.**—The course consists of an extensive study during the first semester of the field of folk-lore and during the second semester, of the ballad and of other folk-songs. 6 s.h. PROFESSOR BROWN

215-216. **Elizabethan Drama.**—6 s.h. ASSISTANT PROFESSOR ALLEN

217. **Spenser.**—In this course students make a detailed study of Spenser's work, giving special attention to the major poems. There are frequent written reports and one term paper. *Second semester.* 3 s.h.
ASSISTANT PROFESSOR ALLEN

218. **Milton.**—A detailed study of Milton's prose and poetry with emphasis on the major poems constitutes the work of the course. There are frequent written reports and a term paper. *First semester.* 3 s.h. PROFESSOR GILBERT

219-220. **English Literature of the Eighteenth Century.**—The prose and poetry of the age of Pope are reviewed in the first semester, of the age of Johnson in the second. Term papers are required. 6 s.h. PROFESSOR IRVING

227-228. **Literary Criticism.**—The work of the course consists of a study of the history of literary criticism from Aristotle to the present. There are oral and written reports and a term paper. 6 s.h. PROFESSOR GILBERT
[Only 227 offered in 1940-41]

229-230. **American Literature, 1800-1870.**—A survey of the principal writers of the period. There are term papers and two oral reports each semester. Seniors must have credit for English 137-138 or its equivalent. 6 s.h.
PROFESSOR HUBBELL AND ASSISTANT PROFESSOR ANDERSON

231-232. **Special Studies in American Authors.**—6 s.h. PROFESSOR GOHDES
[Not offered in 1940-41]

233-234. **American Literature since 1870.**—6 s.h.
PROFESSOR GOHDES AND ASSISTANT PROFESSOR ANDERSON

239-240. **Shakespeare Problems.**—6 s.h. PROFESSOR BROWN
[Not offered in 1940-41]

269-270. **Southern Literature and Culture.**—6 s.h. PROFESSOR HUBBELL
[Only 269 offered in 1940-41]

FOR GRADUATES

303-304. Studies in Elizabethan Literature.—6 s.h. PROFESSOR GILBERT
[Not offered in 1940-41]

307-308. Southern Literature and Culture in the United States.—6 s.h.
PROFESSOR HUBBELL

313-314. Studies in the Romantic Writers of the Early Nineteenth Century.—6 s.h. PROFESSOR WHITE
[Not offered in 1940-41]

315-316. Middle English.—6 s.h. PROFESSOR BAUM
[Only 315 offered in 1940-41]

317-318. Studies in Victorian Literature.—6 s.h. PROFESSOR BAUM
[Only 317 offered in 1940-41]

349-350. Research Courses.—6 s.h.

Students who wish to elect one of these as a seminar course should consult the Director of Graduate Studies as early as possible.

In 1940-41 (e), (h), and (i) are offered.

(a) Folk-Lore and the Ballad. PROFESSOR BROWN

(b) Shakespeare Problems. PROFESSOR BROWN

(c) English Language and Literature, 1200-1550. PROFESSOR BAUM

(d) Victorian Literature. PROFESSOR BAUM

(e) Elizabethan and Seventeenth-Century Literature. PROFESSOR GILBERT

(f) Literary Criticism. PROFESSOR GILBERT

(g) The Eighteenth Century. PROFESSOR IRVING

(h) The Romantic Movement. PROFESSOR WHITE

(i) American Literature. PROFESSORS HUBBELL AND GOHDES

RELATED COURSES IN OTHER DEPARTMENTS

The attention of students of English is directed to the following courses:

German 301-302. Gothic—Middle High German.—6 s.h.
PROFESSOR VOLLMER

Greek 201-202. Greek Tragedy.—6 s.h.
PROFESSOR PEPPLER AND ASSISTANT PROFESSOR WAY

History 221-222. The Age of the Renaissance.—6 s.h.
ASSOCIATE PROFESSOR NELSON

History 223-224. Medieval Institutions and Culture.—6 s.h.
ASSISTANT PROFESSOR QUYNN

Philosophy 201-202. The Philosophy of Art.—6 s.h. (E)
PROFESSOR GILBERT

Philosophy 213-214. History of Aesthetics.—6 s.h. (E) PROFESSOR GILBERT
[Not offered in 1940-41]

Psychology 202. Psychology of Aesthetics.—3 s.h. PROFESSOR LUNDHOLM

FORESTRY

PROFESSOR KORSTIAN, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES—FEW QUADRANGLE, HOUSE GG-010; PROFESSORS BEAL, SCHUMACHER, AND WOLF; ASSOCIATE PROFESSORS HARRAR, KRAMER, MAUGHAN, AND THOMSON; ASSISTANT PROFESSOR COILE

Major and minor work is offered in the more scientific aspects of forestry leading to the Master of Arts and Doctor of Philosophy degrees to students who have received degrees from professional schools of forestry of recognized standing or from approved colleges or universities. Work for these degrees may be pursued only in forest-tree physiology, wood anatomy and properties, forest pathology, silvics, forest soils, forest mensuration, forest management, forest entomology, and forest economics, except that a major cannot be taken in forest management. College graduates who have had specialized training in botany or soil science and in allied basic subjects, such as physics, chemistry, geology, and zoology, may pursue graduate study and research only in the specialized fields for which their previous work has qualified them. Students who do not have previous training in forestry will be required to complete a minimum of thirty semester hours of approved work in the Division of Forestry as a preliminary requirement for admission to candidacy for the A.M. and Ph.D. degrees. These men will not be regarded as professionally trained foresters. For information on professional training in forestry, see *Bulletin of the School of Forestry.*

FOR SENIORS AND GRADUATES

224. **Forest Pathology.**—Special reference to diseases of forest trees. Prerequisites: Botany 1 and 2, and Forestry 253-254, or equivalents. **4 s.h.**
PROFESSOR WOLF

231. **Forest Entomology.**—Morphology, general classification, life histories, and control of insects injurious to forest trees, logs, and lumber. **3 s.h.**
PROFESSOR BEAL

251. **Sampling Methods in Forestry.**—Statistical background for solution of sampling problems with special reference to sample inventory of a forest property. Prerequisite: Forestry S151. **2 s.h.** PROFESSOR SCHUMACHER

252. **Forest Mensuration.**—Empirical equations and curve fitting appropriate for construction of timber yield tables, tree volume and taper tables; significance tests and graphical solution of equations. Assignments require operation of calculating machines. Prerequisite: Forestry 251. **2 s.h.**
PROFESSOR SCHUMACHER

253-254. **Dendrology.**—Nomenclature, classification, and identification of woody plants with special reference to species indigenous to southeastern United States and other important forest regions of temperate North America. Laboratory and field work. Prerequisite: one year of botany. **4 s.h.**
ASSOCIATE PROFESSOR HARRAR

257. **Design of Forestry Experiments and Analysis of Data.**—Role of experimental design in field and laboratory, and statistical analysis of data as aspects of scientific method in forest research. **5 s.h.**
PROFESSOR SCHUMACHER

259. **Wood Anatomy and Properties.**—Anatomical, chemical, and nonmechanical physical properties of wood; macroscopic and microscopic identification of more important woods of the United States. Prerequisites: One year of Botany and Chemistry 1 and 2, or equivalents. **3 s.h.**
ASSOCIATE PROFESSOR HARRAR

261. Forest Soils.—Origin, development, and classification of soils with special emphasis on those developed in climates supporting forests; morphological, physical, and chemical properties of soils in relation to growth of trees; field identification, field sampling, laboratory analysis, and interpretation of field and laboratory observations; interrelationships of soil and forest cover. Prerequisites: Chemistry 1 and 2, and Physics 1, or equivalents; physical geology and analytical chemistry are also desirable. **3 s.h.**

ASSISTANT PROFESSOR COILE

264. Silvics.—Ecological foundations of silviculture with special reference to forest site factors; influence of forests on their environment; growth and development of trees and stands; origin, development, and classification of forest communities; methods of studying forest environments. Desirable prerequisites: Plant physiology, plant ecology, and Forestry 253-254 and 261, or equivalents. **3 s.h.** PROFESSOR KORSTIAN

276. Forest Policy.—Critical study of forestry movement and development of a forest policy, particularly in the United States; brief résumé of forestry in important foreign countries; public land laws of the United States; development of federal and state forestry; forestry laws. **2 s.h.**

ASSOCIATE PROFESSOR THOMSON

279. Economics of Forestry.—Principles of forest economics. Economic and social values of forests; forest resources and wood requirements; economics of wood production and consumption; prices of forest products; forestry and public finance; forestry and land use; forestry credit; forest fire insurance; forestry as a private business enterprise. Prerequisite; at least one course in the principles of economics. **3 s.h.**

ASSOCIATE PROFESSOR THOMSON

FOR GRADUATES

323-324. Advanced Forest Pathology.—Advanced study and research on life histories and control of diseases of forest trees to meet individual needs of graduate students. Prerequisites: plant physiology and forest pathology. Credits to be arranged. PROFESSOR WOLF

351-352. Advanced Physiology of Forest Trees.—Advanced study and research on problems in physiology of forest trees to meet individual needs of graduate students. Prerequisites: plant physiology and plant ecology or silvics. Credits to be arranged. ASSOCIATE PROFESSOR KRAMER

354. Forest Soil Fertility.—Experimental approach to the problems of fertility in forest soil. Influence of stand composition on nitrogen transformation. Methods of studying the exchange complex and the significance of base exchange in forest soil fertility. Prerequisites: Forestry 251 and 261, and plant physiology, or equivalents; bacteriology and analytical and organic chemistry are desirable. **3 s.h.** ASSISTANT PROFESSOR COILE

356. Economic Forces in Forestry.—Analysis of classical and contemporary theories of forest valuation. Principles underlying the measurement of forces determining forestry values. Prerequisites: Forestry 279 and 282, or equivalents; courses in economic theory are desirable. **2 s.h.**

ASSOCIATE PROFESSOR THOMSON

357-358. Research in Forestry.—Credits to be arranged. Students who have had adequate training may do research under direction of members of the Faculty in the following branches of forestry:

a. Silvics.—Prerequisites: Forestry 253-254, 261, and 264, or equivalents.

PROFESSOR KORSTIAN

b. **Forest Soils.**—Prerequisite: Forestry 261 or equivalent.
ASSISTANT PROFESSOR COILE

d. **Forest Management.**—Prerequisite: Forestry 281 or equivalent.
ASSOCIATE PROFESSOR MAUGHAN

e. **Forest Economics.**—Prerequisite: Forestry 279 or equivalent.
ASSOCIATE PROFESSOR THOMSON

f. **Wood Anatomy and Properties.**—Prerequisites: Forestry 259 and 260, or equivalents. ASSOCIATE PROFESSOR HARRAR

g. **Forest Mensuration.**—Prerequisites: Forestry S151, 251, and 252, or equivalents. PROFESSOR SCHUMACHER

h. **Forest Entomology.**—Prerequisite: Forestry 231 or equivalent.
PROFESSOR BEAL

GERMANIC LANGUAGES AND LITERATURE

PROFESSOR VOLLMER, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES—205 PAGE AUDITORIUM; PROFESSOR KRUMMEL

FOR SENIORS AND GRADUATES

201-202. Goethe.—A careful study of Goethe's life and works, with special emphasis upon the broader aspects of his ever widening interests and literary activities. **6 s.h.** PROFESSOR KRUMMEL
[Not offered in 1940-41]

207-208. German Romanticism.—The course covers the entire field of German Romanticism from 1800 to 1850. **6 s.h.** PROFESSOR VOLLMER
[Not offered in 1940-41]

209-210. Kleist, Grillparzer, and Hebbel.—A study of the leading representatives of German drama in the first half of the nineteenth century. **6 s.h.**
PROFESSOR KRUMMEL

211-212. Heinrich Heine and the Young German Movement.—A study of the German poet and his immediate successors in the movement known as *Jungdeutschland*. **6 s.h.** PROFESSOR VOLLMER

213-214. Literature of the Empire, 1871-1914.—A study of the literature of this period as determined particularly by the philosophical, social, political, and religious factors. **6 s.h.** PROFESSOR VOLLMER

FOR GRADUATES

301-302. Gothic—Middle High German.—In the first term the essentials of Gothic morphology, phonology and grammar are investigated, and original Gothic literature is read. In the second term the leading medieval German epics are read in the original. **6 s.h.** PROFESSOR VOLLMER

303-304. German Seminar.—A seminar will be conducted in an eighteenth- or nineteenth-century field for properly qualified students.
PROFESSORS VOLLMER AND KRUMMEL

RELATED COURSES IN OTHER DEPARTMENTS

The following courses in other departments are recommended to students, who are majoring in Germanics, as particularly valuable in building a proper background for Germanic studies:

Certain graduate courses in literature or philology offered by the ancient and modern language departments, to be selected after consultation with the German Department.

History 217-218. Europe since 1870.—6 s.h. Professor Carroll
[Not offered in 1940-41]

History 221-222. The Age of the Renaissance.—6 s.h.
Associate Professor Nelson

History 223-224. Medieval Institutions and Culture.—6 s.h.
Assistant Professor Quynn

History 225-226. The Age of the Reformation.—6 s.h.
[Not offered in 1940-41] Associate Professor Nelson

Philosophy 213-214. History of Aesthetics.—6 s.h. (E) Professor Gilbert
[Not offered in 1940-41]

Philosophy 223. Contemporary Philosophy.—3 s.h. Professor Widgery
[Not offered in 1940-41]

Sociology 320. History of Social Philosophy.—3 s.h.
Professors Ellwood and Jensen

HISTORY

PROFESSOR LAPRADE, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES—2B WEST DUKE BUILDING; PROFESSORS CARROLL* AND SYDNOR; ASSOCIATE PROFESSORS CLYDE, LANNING, AND NELSON; ASSISTANT PROFESSORS MANCHESTER, QUYNN, STILL, AND WOODY

AMERICAN HISTORY

FOR SENIORS AND GRADUATES

209-210. Constitutional History of the United States, 1763-1860.—A study of the Colonial foundations of American constitutional attitudes, the constitutional aspects of the American Revolution, the framing and ratification of the Constitution, the statehood process and the extension of democracy, the constitutional implications of sectional conflict, and the Supreme Court in its relation to the problems of an industrial America. Prerequisites: courses 91 and 92. 6 s.h. Assistant Professor Still

215-216. History of the Foreign Relations of the United States.—This course traces the history of American diplomacy since 1789. 6 s.h.
[Not offered in 1940-41] Associate Professor Clyde

231.—The Hispanic Colonies of the New World.—The development of the Iberian states as colonizing powers, the work of the conquerors, the Spanish colonial policy and system, their influences and results, native races, the international contest for supremacy, and the decay of Spanish power in America and the Philippines. 3 s.h. Associate Professor Lanning

232. The Hispanic American Republics of the New World.—3 s.h.
Associate Professor Lanning

233. The Cultural and Institutional History of Colonial Hispanic America.—3 s.h. Associate Professor Lanning
[Not offered in 1940-41]

234. Political and Social Problems in the Hispanic American Republics.—3 s.h. Associate Professor Lanning
[Not offered in 1940-41]

263-264. American Colonial History and the Revolution, 1606-1783.—The growth of institutions and economic life in the English colonies; the American Revolution. 6 s.h. Assistant Professor Woody

* Absent on leave, 1940-41.

265-266. The Westward Movement in the United States.—A study of the progress of settlement from the Atlantic to the Pacific Coast with especial attention to the transmission of culture, developments in transportation, the transition from agrarian to urban communities, the process of state making, and the social, economic, and political effects of the westward march upon the United States as a whole. **6 s.h.** ASSISTANT PROFESSOR STILL
[Not offered in 1940-41]

FOR GRADUATES

304. The Union, Confederacy, and Reconstruction.—The growth of Southern nationalism, secession, the problems of the Union and Confederacy, and political and economic adjustments during Reconstruction. Year course. **4 s.h.**
ASSISTANT PROFESSOR WOODY

315. Seminar in Southern History.—Year course. **2 s.h.**
PROFESSOR SYDNOR

321. Seminar in the History of Spain and the Spanish-American Colonies.—Year course. **2 s.h.** ASSOCIATE PROFESSOR LANNING

329. Historiography of the South.—Attention is given to the more important printed and manuscript sources and to the writings of the older historians. Bibliographical and research problems are introduced. Year course. **4 s.h.** ASSISTANT PROFESSOR WOODY
[Not offered in 1940-41]

336. The South in Federal Politics, 1789-1860.—The interests and political actions of the South on such questions as public lands, internal improvements, foreign policy, the tariff, and slavery; the political techniques and theories of the South. Year course. **4 s.h.** PROFESSOR SYDNOR
[Not offered in 1940-41]

337. Social and Economic Life of the Old South.—Conditions and trends in the South in respect to population movements, transportation, agriculture, slavery, urban life, commerce, manufacturing, religion, education, and other intellectual activities. Year course. **4 s.h.** PROFESSOR SYDNOR

EUROPE AND THE FAR EAST

FOR SENIORS AND GRADUATES

217-218. Europe since 1870.—International relations since the Franco-German War is the chief subject of study in this course; special emphasis is placed upon the underlying economic and political influences. **6 s.h.**
[Not offered in 1940-41] PROFESSOR CARROLL

219-220. The History of the European Proletariat.—This course is concerned chiefly with the origins, expansion, and organization of the industrial working classes of Europe. The following problems are emphasized: the decline of serfdom, the growth of an urban working class and social revolutions in England, France, and Germany prior to the eighteenth century, the results of the Industrial Revolution, and labor movements and theories during the nineteenth and twentieth centuries. **6 s.h.** PROFESSOR CARROLL
[Not offered in 1940-41]

221-222. The Age of the Renaissance.—The decline of characteristic features of medieval civilization and the rise of modern European institutions with particular attention to intellectual movements from Dante to Erasmus. **6 s.h.** ASSOCIATE PROFESSOR NELSON

223-224. **Medieval Institutions and Culture.**—A consideration of the classical heritage, the Germanic infusion, development of ecclesiastical, feudal, monarchical, and communal institutions, relations of Church and State, the rise of universities, vernacular literature, philosophy, and art, in the period 300-1300 A.D. **6 s.h.** ASSISTANT PROFESSOR QUYNN

225-226. **The Age of the Reformation.**—A survey of European civilization from 1500 through the Peace of Westphalia. **6 s.h.**
[Not offered in 1940-41] ASSOCIATE PROFESSOR NELSON

241-242. **Eastern Asia and the Pacific.**—This course is concerned chiefly with the Westernization of China and Japan in the twentieth century, with emphasis on such topics as the conflict between Western and Eastern political institutions, the rise of modern industry in Japan, the political and social revolution in modern China, military socialism in Manchoukuo, the development of the Russian Far East, the conflict between Chinese nationalism and Japanese imperialism, and the status of Western colonies in the East, including the United States in the Philippines. **6 s.h.** ASSOCIATE PROFESSOR CLYDE

FOR GRADUATES

305. **Seminar in the History of England and the British Empire.**—The work consists of practical training in the methods of historical research based on sources for modern British history. Year course. **2 s.h.**
PROFESSOR LAPRADE

317. **Seminar in Recent European History.**—Year course. **2 s.h.**
[Not offered in 1940-41] PROFESSOR CARROLL

325. **British Nationality and Public Opinion.**—A study of the various political and social groups that have contended for power in England since the sixteenth century and the methods they used. Year course. **4 s.h.**
PROFESSOR LAPRADE

327. **Modern Phases of the English Constitution.**—A brief review of the medieval constitution, followed by a more intensive study of certain aspects of its development in the sixteenth, seventeenth, and eighteenth centuries. Year course. **4 s.h.** PROFESSOR LAPRADE
[Not offered in 1940-41]

343. **Seminar in the History of American Foreign Relations and the Far East.**—Year course. **2 s.h.** ASSOCIATE PROFESSOR CLYDE

THE TEACHING OF HISTORY

FOR SENIORS AND GRADUATES

211. **The Teaching of History and the Social Studies.**—The work consists of a discussion of the question of aims and values in teaching history and civics, textbooks, programs of study, methods of instruction, the use of maps and pictures, the making of lesson plans for use in the high school, and other problems of high-school teaching. *First semester.* **3 s.h.**
ASSISTANT PROFESSOR MANCHESTER

BIBLIOGRAPHY

FOR GRADUATES

326. **Historiography and Bibliography.**—A survey of the development of historical writing, an examination of the greater collections of historical sources, and a consideration of the interrelationships of history and other branches of social knowledge. Hours to be arranged. **2 s.h.**
[Not offered in 1940-41] MEMBERS OF THE DEPARTMENT

RELATED COURSES IN OTHER DEPARTMENTS

Church History 233. Church History to the Reformation.—3 s.h.
ASSISTANT PROFESSOR PETRY

Church History 334. The Church in America: The National Period.—3 s.h.
PROFESSOR GARBER

Economics 231. Economic History of Modern Europe.—3 s.h.
PROFESSOR HAMILTON

Economics 232. Economic History of the United States.—3 s.h.
PROFESSOR HAMILTON

Economics 311-312. History of Political Economy.—6 s.h.
PROFESSOR HAMILTON

Economics 315. Economic Systems.—3 s.h. PROFESSOR HOOVER

Economics 316. Economic Functions of the State.—3 s.h.
PROFESSOR HOOVER

Old Testament 309. History of the Ancient Near East.—3 s.h.
ASSOCIATE PROFESSOR STINESPRING

Political Science 223. Political Thought to the Seventeenth Century.—3 s.h. PROFESSOR WILSON
[Not offered in 1940-41]

Political Science 224.—Modern Political Theory.—3 s.h.
[Not offered in 1940-41] PROFESSOR WILSON

Religious Education 363-364. Religious Thought in the Rise of American Culture.—6 s.h. PROFESSOR SMITH

Sociology 320. History of Social Philosophy.—3 s.h.
PROFESSORS ELLWOOD AND JENSEN

MATHEMATICS

PROFESSOR GERGEN, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES—04 GRAY; PROFESSORS ELLIOTT, RANKIN, AND THOMAS; ASSOCIATE PROFESSOR CARLITZ; ASSISTANT PROFESSORS MILES* AND ROBERTS; DRS. BOAS AND DRESSEL

The Department offers basic courses in each of the main divisions of mathematics: algebra, analysis, geometry, and applied mathematics.

The Master's degree with major in mathematics is awarded primarily on the basis of scholarship. The candidate's preliminary mathematical work must be approved by the Department through the Director of Graduate Studies. It must include differential and integral calculus and the equivalent of two of the courses numbered above 100 in the undergraduate bulletin. Eighteen of the twenty-four semester hours of course work required by the general regulations for the degree must be taken in the Department.

The Doctor's degree with major in mathematics is awarded as a recognition of potential ability and training in research. The original dissertation is the most important of the formal requirements for it. A candidate should have this requirement in mind from the outset and plan his courses accordingly.

Because of the important mathematical literature in French and German, all students taking graduate work in mathematics should have a practical reading knowledge of these languages near the beginning of their graduate study.

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* Absent on leave, 1940-41.

FOR SENIORS AND GRADUATES

201. History of Mathematics.—Evolution of the number system, arithmetic, geometry, algebra, trigonometry, analytic geometry, calculus, and modern geometry. Brief sketches of mathematicians. *Offered in alternate years.* **3 s.h.**
PROFESSOR RANKIN
[Not offered in 1940-41]

204. Teaching of Mathematics.—Fundamental processes, methods of study, mathematical literature, content of courses, applications, correlation of different branches. *Offered in alternate years.* Must be preceded or accompanied by Mathematics 52 or 60. **3 s.h.**
PROFESSOR RANKIN
[Not offered in 1940-41]

225. Theory of Equations.—Permutations, determinants, matrices, linear systems, polynomials and their roots, constructibility, resultants, discriminants, simultaneous equations. Prerequisite: differential calculus. **3 s.h.**
[Not offered in 1940-41]

227-228. Theory of Numbers.—Congruences, arithmetic functions, compound moduli, quadratic reciprocity, Gauss sums, quadratic forms, sums of squares. Prerequisite: integral calculus. **6 s.h.**
[Not offered in 1940-41]
ASSOCIATE PROFESSOR CARLITZ

229-230. Algebraic Numbers.—Ideals, unique factorization, divisors of the discriminant, determination of the class number. Prerequisite: Mathematics 225. **6 s.h.**
ASSOCIATE PROFESSOR CARLITZ

235-236. Modern Algebra.—Groups, fields, rings, matrices, quadratic and bilinear forms, general Galois theory, hypercomplex systems. Prerequisite: differential calculus. **6 s.h.**
PROFESSOR THOMAS

250. Modern Geometry.—Properties of the triangle; transversals; harmonic properties of figures; poles; polars; inversion. Prerequisite: differential calculus. **3 s.h.**
[Not offered in 1940-41]

252. Non-Euclidean Geometry.—Geometry of Bolyai and Lobachevsky. Prerequisite: integral calculus. **3 s.h.**
[Not offered in 1940-41]

255-256. Projective Geometry.—Postulational, synthetic treatment centering around Desargues' theorem and the principle of projectivity. Conics, coordinates, order, continuity, metric properties. Prerequisite: differential calculus. **6 s.h.**
PROFESSOR THOMAS

271-272. Introductory Topology.—Topological properties of Euclidean spaces; set-theoretic and combinatorial methods. Prerequisite: integral calculus. **6 s.h.**
ASSISTANT PROFESSOR ROBERTS
[Not offered in 1940-41]

275. Probability.—Combinatory analysis, mean values, Bernoulli's theorem, probability integral. Applications to statistics. Prerequisite: integral calculus. **3 s.h.**
[Not offered in 1940-41]

281. Elementary Potential Theory.—Newtonian potentials, vector fields, Dirichlet and Neumann problems. Prerequisite: integral calculus. **3 s.h.**
DR. DRESSEL

282. Differential Equations of Mathematical Physics.—Hamilton-Jacobi equation, heat equation, wave equation, telegraphic equation, Schrödinger's equation. Prerequisite: integral calculus. **3 s.h.**
DR. DRESSEL

283. Fourier Series and Spherical Harmonics.—Fourier series and integrals, Legendre polynomials, spherical harmonics, Bessel functions. Applications to mathematical physics. Prerequisite: integral calculus. **3 s.h.**
[Not offered in 1940-41] ASSISTANT PROFESSOR MILES

284. Vector Analysis.—Vectors in three-dimensional Euclidean space with applications to physics; introduction to tensor analysis. Prerequisite: integral calculus. **3 s.h.**
[Not offered in 1940-41]

287. Mathematical Logic.—Boole-Schroeder algebra of logic, system of Principia Mathematica, strict and material implication. **3 s.h.**
[Not offered in 1940-41]

288. Foundations of Mathematics.—Postulates for groups, fields, rings, Boolean algebras. **3 s.h.**
[Not offered in 1940-41]

291-292. Theory of Functions.—Fundamental concepts in the theory of functions of real and complex variables. Limits, continuous functions, Riemann integrals, implicit functions, power series, double series, linear transformations, elementary functions, Cauchy's theorem and its applications, entire functions, residues, Riemann surfaces, conformal mapping. Prerequisite: Mathematics 140. **6 s.h.** PROFESSOR GERGEN

FOR GRADUATES

325-326. Real Variable.—The number system; theory of sets; transfinite numbers; Baire classes; Lebesgue, Stieltjes, Denjoy integrals and their applications; linear operations. Prerequisite: Mathematics 291-292. **6 s.h.**
DR. BOAS

331-332. Complex Variable.—Analytic continuation, conformal mapping and its applications, univalent functions, meromorphic functions, analytic functions of several complex variables. Prerequisite: Mathematics 291-292.
[Not offered in 1940-41]

333-334. Analytic Theory of Numbers.—Distribution of primes; primes in an arithmetic progression; Waring and Goldbach problems. Prerequisite: Mathematics 291-292. **6 s.h.**
[Not offered in 1940-41]

337-338. Existence Theorems.—Systems of partial differential equations; Pfaffian systems; theorems of Cauchy, Riquier, and Cartan; singular integral varieties. Prerequisite: Mathematics 291-292. **6 s.h.** PROFESSOR THOMAS
[Not offered in 1940-41]

341-342. Integral Equations.—Volterra and Fredholm integral equations; application to boundary problems of differential equations. Prerequisites: Mathematics 131 and 139-140. **6 s.h.** PROFESSOR ELLIOTT
[Not offered in 1940-41]

343-344. Ordinary Differential Equations.—Solution by separation of variables, exact differentials, integrating factors, solution in series, Cauchy's existence theorem, linear differential systems, singular points, partial differential equations equivalent to ordinary systems. Prerequisite: Mathematics 291-292. **6 s.h.** PROFESSOR THOMAS
[Not offered in 1940-41]

353-354. Trigonometric Series.—Detailed, analytic study of trigonometric, particularly Fourier, series; related topics in Lebesgue integrals and complex variable. Prerequisite: Mathematics 325-326. **6 s.h.**
[Not offered in 1940-41]

371-372. **Advanced Topology.**—Abstract spaces; continuous, interior, and topological transformations; dimension theory. Prerequisite: Mathematics 271-272. **6 s.h.**
ASSISTANT PROFESSOR ROBERTS

382. **Potential Theory.**—Properties of harmonic functions. Existence theorems for boundary value problems. Potentials of general mass distribution. Prerequisites: Mathematics 281 and 325-326. **6 s.h.**
[Not offered in 1940-41]

PHILOSOPHY

PROFESSOR WIDGERY, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES—303 SCHOOL OF RELIGION; PROFESSORS GILBERT AND SMITH; ASSOCIATE PROFESSOR MORGAN; ASSISTANT PROFESSOR LEONARD; AND DR. MCLARTY

FOR SENIORS AND GRADUATES

201-202. **The Philosophy of Art.**—Study of the various phases of the aesthetic experience and forms of beauty with analysis of examples. Particular attention will be given to recent writers on aesthetics. **6 s.h.** (E)
PROFESSOR GILBERT

203. **The Philosophy of Conduct.**—A critical study of the fundamental problems of ethics. **3 s.h.**
ASSOCIATE PROFESSOR MORGAN

204. **Christian Ethics.**—A historical and systematic study of Christian conceptions of the moral life and its problems. **3 s.h.**
PROFESSOR SMITH

205. **The Philosophy of History.**—An inquiry into the logic and methodology of the knowledge of history, and into the metaphysical implications of history. **3 s.h.**
PROFESSOR WIDGERY

206. **Modern Political Theory.**—**3 s.h.** Political Science 224.
[Not offered in 1940-41]
PROFESSOR WILSON

207. **Political Thought to the Seventeenth Century.**—**3 s.h.** Political Science 223.
[Not offered in 1940-41]
PROFESSOR WILSON

208. **Political Philosophy.**—A critical investigation of the bases of political authority and of the ideals of political organization, with reference to prevalent political systems. **3 s.h.**
ASSOCIATE PROFESSOR MORGAN

209-210. **The Philosophy of Religion.**—A critical consideration of the data of empirical religion and the constructive development of modern philosophy of religion. **6 s.h.**
PROFESSOR WIDGERY
[Not offered in 1940-41]

212. **Psychology of Belief.**—**2 s.h.** Psychology 228.
[Not offered in 1940-41]
PROFESSOR LUNDHOLM

213-214. **History of Aesthetics.**—The tracing of the historical solutions of traditional problems, such as the nature of imitation, symbolism, the ugly, the sublime, and the comic, the relation of art to nature, to morals, and to economics, the relation of the particular arts to each other, the standard of taste. **6 s.h.** (E)
PROFESSOR GILBERT
[Not offered in 1940-41]

215-216. **Plato.**—*Symposium, Protagoras,* and parts of the *Republic.* **6 s.h.** Greek 209-210.
ASSISTANT PROFESSOR WAY

217. The Philosophy of Aristotle.—Prerequisite: 105. **3 s.h.** DR. MCLARTY

219-220. The Age of the Renaissance.—6 s.h. History 221-222.
ASSOCIATE PROFESSOR NELSON

223. Contemporary Philosophy.—A study of the leading philosophical movements in Europe and America in the last fifty years. *Second semester.* **3 s.h.** PROFESSOR WIDGERY
[Not offered in 1940-41]

226. The History of Ethics.—Theories of morality from Socrates to the present time. **3 s.h.** ASSOCIATE PROFESSOR MORGAN
[Not offered in 1940-41]

227. Foundations of Mathematics.—3 s.h. Mathematics 288.
[Not offered in 1940-41] ASSOCIATE PROFESSOR CARLITZ

228. Mathematical Logic.—3 s.h. Mathematics 287.
[Not offered in 1940-41] ASSOCIATE PROFESSOR CARLITZ

229-230. Contemporary Physics.—6 s.h. Physics 213-214.
ASSISTANT PROFESSOR CONSTANT

231-232. Philosophy of Science.—A historical and critical survey of the relations of natural science to general philosophy. **6 s.h.**
ASSISTANT PROFESSOR LEONARD

234. Introduction to the Philosophy of Education.—3 s.h. Education 200.
PROFESSOR HOLTON

236. Oriental Philosophy I. Chinese Philosophy.—3 s.h.
[Not offered in 1940-41] ACTING PROFESSOR DUBS

238. Oriental Philosophy II. Indian Philosophy.—3 s.h.
PROFESSOR WIDGERY

241. Logic.—The characteristic structure of a logical system. Forms of propositions and arguments. Logical relations of propositions. Levels of analysis. **3 s.h.** ASSISTANT PROFESSOR LEONARD
[Not offered in 1940-41]

242. Scientific Methodology.—A survey of the methods used in the different branches of the natural and social sciences in seeking and testing knowledge. **3 s.h.** ASSISTANT PROFESSOR LEONARD
[Not offered in 1940-41]

244. Nietzsche and the Nineteenth Century.—Studies in the major trends of intellectual life of the period, focused around the work of Nietzsche. **3 s.h.**
ASSOCIATE PROFESSOR MORGAN

245-246. Philosophical Foundations of Religious Belief.—6 s.h.
ACTING PROFESSOR DUBS

248. Philosophy of Values.—2 s.h. ACTING PROFESSOR DUBS

249. Platonism and Christianity.—An analysis of Plato's religious philosophy; its variants in Hellenistic and Christian thought. **3 s.h.** Religion 221.
ASSISTANT PROFESSOR OUTLER

250. Philosophical Theology in the Nineteenth Century.—A survey of the reciprocal relations of philosophy and theology. **3 s.h.** Religion 222.
ASSISTANT PROFESSOR OUTLER

FOR GRADUATES

301-302. Seminar in Philosophy.—Special problems, chiefly metaphysical. Two hours a week throughout the year. Time to be arranged. **4 s.h.**
PROFESSOR WIDGERY

305. Seminar: Spinoza.—Detailed study of Spinoza's works showing the development of his own thought and his relation to his contemporaries. **3 s.h.**
[Not offered in 1940-41] PROFESSOR GILBERT

307. Seminar: Kant. ASSOCIATE PROFESSOR MORGAN
[Not offered in 1940-41]

308. Seminar: Hegel.—A study of a selection of the texts together with recent interpretations. **3 s.h.** PROFESSOR GILBERT

310. Seminar: Logical Positivism and Its Relation to Contemporary Movements in Philosophy and Science.—**2 s.h.**
[Not offered in 1940-41] ASSISTANT PROFESSOR LEONARD

311. Historical and Philosophical Biology.—**2 s.h.** Zoology 341.
PROFESSOR HARGITT

313-314. Seminar: Theories of Self.—**4 s.h.** Religion 377-378.
PROFESSOR HICKMAN

315. Seminar: Leibnitz.—**2 s.h.** ACTING PROFESSOR DUBS
[Not offered in 1940-41]

316. History of Social Philosophy.—**3 s.h.** Sociology 320.
PROFESSORS ELLWOOD AND JENSEN

319-320. Religious Thought in the Rise of American Culture.—Prerequisite: Religious Education 261 or its equivalent. **6 s.h.** Religion 363-364.
PROFESSOR SMITH

322. Seminar in Philosophy of Religious Education.—Prerequisite: Religious Education 261 or its equivalent. **3 s.h.** Religion 366. PROFESSOR SMITH

323. Seminar: Bushnell, Channing, Emerson.—**2 s.h.** PROFESSOR SMITH

325. Seminar: Locke, Berkeley, Hume.—**2 s.h.**
ASSISTANT PROFESSOR LEONARD

326. Seminar: Christian Ethics.—Selected problems. **2 s.h.**
PROFESSOR SMITH

PHYSICS

PROFESSOR NIELSEN, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES—101 PHYSICS BUILDING; PROFESSORS EDWARDS, HATLEY, NORDHEIM, AND SPONER; ASSISTANT PROFESSORS CONSTANT AND MOUZON; DRS. BONNER AND HEBB

The Department of Physics makes provision for both beginning and advanced graduate students. The courses are designed to give a broad basic foundation in classical and quantum physics.

All graduate students will first be expected to acquire a thorough knowledge of the various branches of classical physics as well as some familiarity with modern physics and sufficient laboratory training. They will be required to take such course work in the 200 group of studies as may be necessary to complete this foundation.

To complete their course requirements in physics, graduate students will take such advanced courses as will best help them and fit them for the type

of work in which they plan to specialize and undertake research. The character of the work in other related departments will also depend upon the field of subsequent specialization and research.

Since a reading knowledge of French and German is highly desirable, students are urged to satisfy the language requirements in both as early as possible.

The research work of the Department is largely confined to the experimental and theoretical fields of nuclear physics and molecular structure. Experimental work is also being done in magnetism.

FOR SENIORS AND GRADUATES

203-204. Analytical Mechanics.—Geometry of motion; kinematics of a particle and of a rigid body; statics; relative motion; general principles of mechanics. **6 s.h.** DR. HEBB

205-206. Physical Optics.—This course deals with interference diffraction, polarization, absorption, dispersion; in general it will cover those topics treated in a text such as Wood's *Physical Optics*. Two lectures and one three-hour laboratory period per week. **6 s.h.** PROFESSOR HATLEY

211. History of Physics.—A rapid review of the fundamental laws of physics developed from the historical point of view. **2 s.h.** PROFESSOR EDWARDS

213-214. Contemporary Physics.—A course which covers in a descriptive manner the fundamental concepts and experimental basis of modern theories of the structure of matter. **6 s.h.** ASSISTANT PROFESSOR CONSTANT

215-216. Atomic Physics Laboratory.—Some of the more important experiments which form the basis of modern atomic theory. Special emphasis is placed on experimental technique, valuable in original physical investigations. **2-4 s.h.** PROFESSOR NIELSEN AND ASSISTANT PROFESSOR MOUZON

217-218. Advanced General Physics Laboratory.—Exact measurements involving the fields of mechanics, electrical measurements, heat and pyrometry. **2 s.h.** PROFESSOR NIELSEN AND ASSISTANT PROFESSOR MOUZON

219. Vacuum Tubes and Their Application.—Theory and application of vacuum tube circuits with special emphasis on their use in scientific research. Two hours of lecture and one three-hour laboratory per week. Prerequisites: 8 s.h. of physics, differential and integral calculus. **3 s.h.** ASSISTANT PROFESSOR MOUZON

221-222. Introduction to Theoretical Physics.—Lectures and problems on the fundamental principles and mathematical theory of the general field of physics, constituting a thorough foundation for subsequent specialization and more intensive study. **6 s.h.** ASSISTANT PROFESSOR CONSTANT

FOR GRADUATES

303. Thermodynamics.—Fundamental laws of thermodynamics and their applications to physics and chemistry. Offered jointly by the Departments of Physics and Chemistry. **3 s.h.** PROFESSORS GROSS AND SPONER

304. Kinetic Theory of Matter.—Gas laws; Maxwell's distribution law; mean free path; viscosity; heat conductivity; diffusion; phenomena in gases at low pressure; specific heat; entropy; probability and reaction kinetics. **3 s.h.** PROFESSOR SPONER

307. Theory of Electricity and Magnetism.—An advanced theoretical course based on Jean's *Electricity and Magnetism*, covering the mathematical theory of electrostatics, magnetostatics, current theory and electro-magnetism, and illustrated by numerous problems. Particular attention is given to electrostatic problems and methods of solution of LaPlace's equation. Prerequisite: Physics 221-222. 3 s.h. ASSISTANT PROFESSOR CONSTANT

311. Conduction of Electricity through Gases.—Electron theory of conduction through gases; spark and glow discharges; electric arcs; excitation of spectra; energy levels; radioactive radiations. 3 s.h. PROFESSOR EDWARDS

315-316. Principles of Quantum Theory.—The origin and fundamental concepts of the quantum theories. The mechanics and principles of the Bohr-Sommerfeld theory are followed by those of the more recent theories of wave and matrix mechanics, as developed by De Broglie, Schrödinger, Heisenberg, Born, Jordan, and Dirac. 6 s.h. PROFESSOR NORDHEIM
[Not offered in 1940-41]

317. Advanced Dynamics.—A course dealing with the more advanced phases of dynamics and considering such topics as equations of Lagrange and Hamilton, generalized coördinates, oscillatory and cyclic motion, criteria of equilibrium, and the Newtonian potential theory. 3 s.h. DR. HEBB

319. Electrodynamics.—Maxwell's equation. Eletromagnetic oscillations and waves. Electromagnetic theory of light. 3 s.h. PROFESSOR NORDHEIM

320. Theory of Electrons.—Crystal optics, theory of dispersion, conductivity and magnetism. Optics of moving bodies. Prerequisite: Physics 319. 3 s.h. PROFESSOR NORDHEIM

323. Theory of Atomic Spectra.—Excitation of spectra, computation of wave lengths from photographs of spectra, study of the structure of atomic spectra with applications. 3 s.h. PROFESSOR SPONER
[Not offered in 1940-41]

324. Theory of Molecular Spectra.—A study of the structure of molecular spectra with applications. 3 s.h. PROFESSOR SPONER
[Not offered in 1940-41]

340. Structure of Matter.—Selected topics dealing with the constitution of matter such as crystal structure and X-rays, the solid state and nuclear physics. 3 s.h. PROFESSORS SPONER AND NORDHEIM

341-342. Advanced Topics in Physics.—Treatment of more special fields in physics. 2-6 s.h. PROFESSORS SPONER AND NORDHEIM
The fields taken up in the course 340-342 will vary from year to year.

343-344. Radioactivity and Nuclear Structure.—Discovery of radioactivity, properties of Alpha, Beta, and Gamma rays, successive transformations, artificial transmutations and nuclear structure. 6 s.h. PROFESSOR NIELSEN

345-346. Colloquium.—Discussion of recent advances in physics. No credit. STAFF

351-352. Seminar.—A series of weekly discussions on topics related to the research projects under investigation in the department. 2 s.h. STAFF

353-354. Thesis Seminar.—Students who are properly qualified may carry on research work under the direction of members of the Staff. 6 s.h. STAFF

RELATED COURSES IN OTHER DEPARTMENTS
CHEMISTRY

261-262. Physical Chemistry.—6 s.h.
PROFESSOR GROSS, ASSISTANT PROFESSOR SAYLOR, AND DR. HOBBS

363-364. Advanced Physical Chemistry.—6 s.h.
PROFESSORS GROSS AND VOSBURGH, ASSISTANT PROFESSOR SAYLOR, DRS. HILL AND HOBBS

365-366. Chemical Physics. Statistical Theory, Principles, and Applications.—6 s.h. PROFESSOR LONDON

367-368. Chemical Physics. Theoretical Aspects of Atomic and Molecular Structure.—6 s.h. PROFESSOR LONDON
[Not offered in 1940-41]

ELECTRICAL ENGINEERING

261. Communication Engineering, Audio Frequency.—3 s.h. (E)
PROFESSOR SEELEY

262. Communication Engineering, Radio Frequency.—Prerequisite: course 261. **4 s.h.** (E) PROFESSOR SEELEY

MATHEMATICS

281. Elementary Potential Theory.—3 s.h. DR. DRESSEL

282. Differential Equations of Mathematical Physics.—3 s.h.
DR. DRESSEL

283. Fourier Series and Spherical Harmonics.—3 s.h.
[Not offered in 1940-41] ASSISTANT PROFESSOR MILES

284. Vector Analysis.—3 s.h.
[Not offered in 1940-41]

POLITICAL SCIENCE

PROFESSOR WILSON, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES—311 LIBRARY; PROFESSORS RANKIN AND VON BECKERATH; ASSOCIATE PROFESSORS COLE AND SHIPMAN; ASSISTANT PROFESSOR LINEBARGER

FOR SENIORS AND GRADUATES

207. American Constitutional Law and Theory.—A study of leading principles of American government, as developed through judicial interpretation of the Constitution. **3 s.h.** PROFESSOR WILSON

209. State and Local Government in the United States.—A study of the historical development of state and local governments, their present organization, their relation to each other and to the federal government. **3 s.h.**
PROFESSOR RANKIN

211. Political Institutions of the Far East.—A study of the governmental systems of Japan, Korea and China from the Chou Dynasty to the present. **3 s.h.** ASSISTANT PROFESSOR LINEBARGER

212. International Politics of the Far East.—A study of changing power relationships in the Orient since the arrival of the Europeans. **3 s.h.**
ASSISTANT PROFESSOR LINEBARGER

223. **Political Thought to the Seventeenth Century.**—A survey of political thought from the time of Plato to the close of the sixteenth century. 3 s.h.
[Not offered in 1940-41] PROFESSOR WILSON

224. **Modern Political Theory.**—Political theories of the seventeenth and eighteenth centuries, and of the first half of the nineteenth, with a study of their influence upon modern political institutions. 3 s.h. PROFESSOR WILSON
[Not offered in 1940-41]

225-226. **Comparative Government.**—A comparative study of modern political institutions, with special reference to bureaucracy, federalism, fascism, dictatorship, constitutions, representation, parliamentarism, and separation of powers. 6 s.h. ASSOCIATE PROFESSOR COLE

227-228. **International Law and International Organization.**—Elements of international law, and a study of certain international organizations from the point of view of their significance for international law. 6 s.h.
PROFESSOR WILSON

229. **Recent and Contemporary Political Theory.**—A study of the more significant contributions to political theory from 1850 to the present. 3 s.h.
ASSOCIATE PROFESSOR COLE

230. **American Political Institutions.**—A study of the formation and development of institutions of the national government in the United States, with historical and analytical treatment. 3 s.h. PROFESSOR RANKIN

241-242. **The Administrative Process.**—The function and theory of organization, delegated legislation, administrative adjudication, the control of administration, and special problems in economic balancing and proprietary activities. 6 s.h. ASSOCIATE PROFESSOR SHIPMAN

244. **Administrative Law.**—The law of the administrative process, including the nature of regulatory authority, the status and liability of public officers, administrative tribunals and the judicial review of administrative action. 3 s.h.
[Not offered in 1940-41] ASSOCIATE PROFESSOR SHIPMAN

246. **Legislation.**—A study of the legislative process with attention to procedure, methods, techniques, delegation of discretion, and the use of controls. 3 s.h. ASSOCIATE PROFESSOR SHIPMAN

271. **Socio-Politics and Capitalism.**—Labor and labor policies in Western Europe and the United States from the early nineteenth century to the World War, and socio-political developments in the post-War world. 3 s.h.
PROFESSOR VON BECKERATH

291. **Municipal Government.**—A study of general problems relating to the structural system and activities of municipalities in the United States. 3 s.h.
PROFESSOR RANKIN

292. **Municipal Administration.**—A study of principles and methods of municipal administration in the United States. 3 s.h. PROFESSOR RANKIN
[Not offered in 1940-41]

FOR GRADUATES

310. **Seminar in State Government.**—Open to students who have completed course 209 or its equivalent. 3 s.h. PROFESSOR RANKIN

311. **Seminar in Far Eastern Politics.**—Open to students who have completed course 211 or its equivalent. 3 s.h. ASSISTANT PROFESSOR LINEBARGER

326. **Seminar in Comparative Government.**—Open to students who have completed course 225-226 or its equivalent. 3 s.h. ASSOCIATE PROFESSOR COLE
[Not offered in 1940-41]

328. **Seminar in International Law.**—Open to students who have completed course 227-228 or its equivalent. 3 s.h. PROFESSOR WILSON

341. **Seminar in Public Administration.**—Open to students who have completed course 241-242 or its equivalent. 3 s.h. ASSOCIATE PROFESSOR SHIPMAN
[Not offered in 1940-41]

RELATED COURSES IN OTHER DEPARTMENTS

Economics 233. State and Local Finance.—3 s.h.
ASSOCIATE PROFESSOR RATCHFORD

Economics 237-238. Statistical Methods.—6 s.h.
ASSISTANT PROFESSOR SPRINGER

Economics 265. International Trade and Tariff Policies.—3 s.h.
PROFESSOR VON BECKERATH

Economics 266. International Finance.—3 s.h. PROFESSOR HAMILTON

Economics 316. Economic Functions of the State.—3 s.h.
PROFESSOR HOOVER

History 215-216. History of the Foreign Relations of the United States.—6 s.h. ASSOCIATE PROFESSOR CLYDE
[Not offered in 1940-41]

History 217-218. Europe since 1870.—6 s.h. PROFESSOR CARROLL
[Not offered in 1940-41]

History 234. Political and Social Problems in the Hispanic American Republics.—3 s.h. ASSOCIATE PROFESSOR LANNING
[Not offered in 1940-41]

Philosophy 208. Political Philosophy.—3 s.h.
ASSOCIATE PROFESSOR MORGAN

Sociology 213. Constructive Social Policies.—2 s.h. PROFESSOR JENSEN
[Not offered in 1940-41]

PSYCHOLOGY

PROFESSORS LUNDHOLM AND RHINE; ASSOCIATE PROFESSORS ADAMS AND ZENER

The aim of the Department is to provide opportunity for study along broad and varied lines, both in theoretical and experimental work in the field of psychology. The scope of interest represented covers the principal lines of subject matter dealing with child, adult, and animal psychology. An unusual variety of theoretical viewpoints is represented on the Staff. The emphasis in the presentation of courses will be, however, less upon quantity and extent than upon balance and selective representation.

In the direction of research done by graduate students, two general aims will be kept in mind: that of training and that of fruitful achievement. The research carried out for the Master's thesis will be primarily directed with the purpose of training the student. For the Ph.D. thesis, however, there will be a primary emphasis upon the importance of the research and there will be expectation of original contribution.

It is expected that the graduate students will have entered with preparation equivalent to the undergraduate courses offered by this Department. A reading knowledge of French and German is desirable from the beginning, and in no case should the acquisition of this be postponed later than the beginning of the second year.

No limitation is laid down as to the departments in which it is possible to minor. In doing graduate study in psychology, those branches of study which are looked upon with most favor, however, are education, sociology, zoology, physiology, and philosophy.

Encouragement is given to originality and freedom in thinking in the individual research of the student. There is wide tolerance of subject matter for research.

FOR SENIORS AND GRADUATES

202. Psychology of Aesthetics.—3 s.h. PROFESSOR LUNDHOLM

206. Social Psychology.—3 s.h. (Formerly 201.)
ASSOCIATE PROFESSOR ADAMS

207. Psychology of Memory, Thinking, Perceiving.—3 s.h.
ASSOCIATE PROFESSOR ZENER

209. Experimental Methods in Human Psychology.—4 s.h.
[Not offered in 1940-41] ASSOCIATE PROFESSOR ZENER

211. Physiological Psychology.—3 s.h. ASSOCIATE PROFESSOR ZENER
[Not offered in 1940-41]

216. Seminar in Comparative Psychology.—2 or 3 s.h.
[Not offered in 1940-41] ASSOCIATE PROFESSOR ADAMS

217. Gestalt Theory.—3 s.h. ASSOCIATE PROFESSOR ADAMS
[Not offered in 1940-41]

223. Abnormal Psychology.—3 s.h. PROFESSOR LUNDHOLM
[Limited registration. Admission only after consultation with instructor.]
If advisable, this course may also be offered in the spring semester.

226. Contemporary Schools of Psychology.—3 s.h. *First semester.*
ASSOCIATE PROFESSOR ZENER

228. Psychology of Belief.—2 s.h. PROFESSOR LUNDHOLM
[Not offered in 1940-41]

FOR GRADUATES

302. Seminar: Schools of Abnormal Psychology.—3 s.h.
PROFESSOR LUNDHOLM

303-304. Research.—2 or 3 s.h.
PROFESSORS LUNDHOLM AND RHINE; ASSOCIATE PROFESSORS ADAMS AND ZENER

306. Seminar in Child Psychology.—2 or 3 s.h.
ASSOCIATE PROFESSOR ADAMS

307. Seminar in Psychology of Personality.—3 s.h. PROFESSOR RHINE
[Not offered in 1940-41]

309. Theory of Learning.—3 s.h. ASSOCIATE PROFESSOR ADAMS
[Not offered in 1940-41]

310. Seminar: Selected Problems in the Dynamics of Behavior.—Topics vary from year to year. 3 s.h. ASSOCIATE PROFESSOR ZENER

313-314. Seminar in Parapsychology.—6 s.h. PROFESSOR RHINE

315. Developmental Psychology.—3 s.h. ASSOCIATE PROFESSOR ADAMS

317. Seminar: Special Problems in the Psychology of Aesthetics.—3 s.h. [Not offered in 1940-41] PROFESSOR LUNDHOLM

RELIGION

PROFESSOR SMITH, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES—304 SCHOOL OF RELIGION; PROFESSORS BRANSCOMB, DUBS, GARBER, AND RUSSELL; ASSOCIATE PROFESSOR STINESPRING; ASSISTANT PROFESSORS CLARK, OUTLER, AND PETRY

Graduate study in religion leading to the degrees of Master of Arts and Doctor of Philosophy may be pursued in three fields: (1) Biblical Studies (Professor Branscomb, Advisor); (2) Studies in Church History (Professor Garber, Advisor); and (3) Studies in Christian Theology and Ethics (Professor Smith, Advisor). A student majoring in one of these fields will be expected to take such courses in one or both of the other fields as may be necessary to give an adequate understanding of his field of specialization.

Students pursuing work in the field of religion will be expected to take such other courses in cognate fields as will aid in the understanding of their field of specialization. Special attention is called to the Division of Ancient Languages and Literatures for those working in Field 1; to the Department of History for those working in Field 2; and to the Department of Philosophy and the Department of Sociology for those working in Field 3.

FIELD I. BIBLICAL STUDIES

201-202. First Hebrew.—The principles and structure of the Hebrew language with translation of selected Old Testament narratives. M.W.F. at 11:30. 6 s.h. ASSOCIATE PROFESSOR STINESPRING

301. Old Testament Theology.—The religious and ethical teachings of the books of the Old Testament in their historical development. Prerequisite: Old Testament 203-204. T.Th.S. at 10:20. 3 s.h. PROFESSOR RUSSELL

304. Aramaic.—A study of the Aramaic portions of the Old Testament, and selected passages from the Targums, Midrashes, and Talmuds. Hours to be arranged. 3 s.h. ASSOCIATE PROFESSOR STINESPRING

305-306. Arabic.—Introduction to the classical language and literature with some attention to the modern idiom. 6 s.h. ASSOCIATE PROFESSOR STINESPRING

307-308. Second Hebrew.—Samuel or Kings the first semester and Isaiah the second. M.W.F. at 2:00. 6 s.h. ASSOCIATE PROFESSOR STINESPRING

309. History of the Ancient Near East.—A survey of the early civilizations of Egypt, Palestine, Syria, and Mesopotamia in light of Biblical archaeology. T.Th.S. at 11:30. 3 s.h. ASSOCIATE PROFESSOR STINESPRING

310. Old Testament Prophecy.—The prophetic movement in Israel with special emphasis on the prophets of the eighth century B.C. T.Th.S. at 10:20. 3 s.h. ASSOCIATE PROFESSOR STINESPRING

218. Galatians and I Corinthians.—A detailed study of two of Paul's major epistles. The course will be based on the Greek text. T.Th.S. at 9:10. 3 s.h. ASSISTANT PROFESSOR CLARK

220. I Peter and the Gospel of John.—A detailed study of two of the non-Pauline writings of the New Testament. The course will be based on the Greek text. T.Th.S. at 9:10. **3 s.h.** ASSISTANT PROFESSOR CLARK

311. The Life and Teachings of Jesus.—Prerequisite: New Testament 213-214. M.W.F. at 10:20. **3 s.h.** PROFESSOR BRANSCOMB

312. New Testament Theology.—The religious teaching of the books of the New Testament. Prerequisite: New Testament 213-214. M.W.F. at 10:20. **3 s.h.** PROFESSOR RUSSELL

315. Hellenistic Religions at the Beginning of the Christian Era.—T.Th.S. at 10:20. **3 s.h.** ASSISTANT PROFESSOR CLARK

316. Judaism at the Beginning of the Christian Era.—A study of Judaism from the time of Ben Sirach to the writing of the Mishna. T.Th.S. at 10:20. **3 s.h.** PROFESSOR BRANSCOMB

318. Text of New Testament.—A study of the materials for the reconstruction of the text, the principles of textual criticism, and the history of the text. Practical exercises in the use of manuscripts and facsimiles will be given. T.Th.S. at 10:20. **3 s.h.** ASSISTANT PROFESSOR CLARK

FIELD II. STUDIES IN CHURCH HISTORY

322. The Medieval Church.—Outstanding characteristics of the Medieval Church, emphasizing theory, polity, institutions, sacraments, and worship. Prerequisite: Church History 233-234. T.Th.S. at 8:00. **3 s.h.**
ASSISTANT PROFESSOR PETRY

331. The Social Message of the Early and Medieval Church.—A study of the social teachings of the Christian Church prior to the Protestant Reformation. Prerequisite: Church History 233-234. T.Th.S. at 8:00. **3 s.h.**
ASSISTANT PROFESSOR PETRY

333. The Church in Europe since 1800.—Emphasis is placed on the relation of the Church to the social, economic, and political life of Modern Europe. Prerequisite: Church History 233-234. M.W.F. at 11:30. **3 s.h.**
PROFESSOR GARBER

334. A History of Christian Renunciation in the Middle Ages.—A study of the renunciatory ideal and spiritual practices with special reference to Benedictines, Franciscans, Lowland Mystics, and leading seculars. Prerequisite: Church History 233-234. M.W.F. at 11:30. **3 s.h.**
ASSISTANT PROFESSOR PETRY

335-336. The Church in America.—The Church as a factor in the social, economic, and political life of America. Prerequisite: Church History 233-234. **6 s.h.** PROFESSOR GARBER

337. Religion in the Southern States since the Civil War.—A study of the religious life of the Southern people since 1865. Prerequisite: Church History 233-234. **3 s.h.** PROFESSOR GARBER

339. Seminar on Frontier Religion.—Special studies on influence of the frontier in American religious life. Prerequisite: Church History 233-234. **2 s.h.** PROFESSOR GARBER

FIELD III. STUDIES IN CHRISTIAN THEOLOGY AND ETHICS

221. Platonism and Christianity.—An analysis of Plato's religious philosophy and a survey of its continuing influence in Hellenistic and Christian thought. Prerequisite: six semester hours in philosophy or its equivalent. **3 s.h.**
ASSISTANT PROFESSOR OUTLER

222. **Theology and Philosophy in the Nineteenth Century.**—A study of Protestant thought from Schleiermacher to Troeltsch, with special attention to the reciprocal relations between theology and metaphysics. 3 s.h.
ASSISTANT PROFESSOR OUTLER

291. **Christian Ethics.**—An historical and systematic study of Christian conceptions of the moral life and its problems. T.Th.S. at 11:30. 3 s.h.
PROFESSOR SMITH

295. **Philosophical Foundations of Religious Belief I.**—The nature of religion, its types and their characteristics as bearing upon contemporary Christianity. T.Th. at 2:15-3:30. 3 s.h. ACTING PROFESSOR DUBS

296. **Philosophical Foundations of Religious Belief II.**—The problems of knowledge and value; the values of religion; the ideal religion; an attempt to formulate a tenable theistic philosophy. T.Th. at 2:15-3:30. 3 s.h.
ACTING PROFESSOR DUBS

323. **Seminar in Historical Theology.**—Selected problems in the history of Christian thought, with special reference to the relation between theology and philosophy. Hours to be arranged. 2 s.h. ASSISTANT PROFESSOR OUTLER

366. **Seminar in Philosophy of Religious Education.**—A critical study of the basic concepts and theories underlying religious education. Prerequisite: Religious Education 261 or its equivalent. T. at 3:30. 2 s.h. PROFESSOR SMITH

393-394. **Religious Thought in the Rise of American Culture.**—A survey of the main developments in American religious thought in relation to the growth of civilization and culture. T.Th.S. at 9:10. 6 s.h. PROFESSOR SMITH

397. **Seminar in American Religious Thought.**—Selected problems, chiefly of the nineteenth century. T. at 3:30. 2 s.h. PROFESSOR SMITH

398. **Seminar in Christian Ethics.**—A critical study of selected problems. T. at 3:30. 2 s.h. PROFESSOR SMITH

OTHER COURSES

Certain other courses listed in this bulletin and in the bulletin of the School of Religion may be taken for graduate credit, provided they are approved by the chairman of the candidate's guidance committee and the Dean of the Graduate School.

ROMANCE LANGUAGES

PROFESSOR WEBB, CHAIRMAN—107 GRAY BUILDING; PROFESSOR JORDAN, DIRECTOR OF GRADUATE STUDIES—106 GRAY BUILDING; PROFESSOR COWPER; ASSOCIATE PROFESSORS LUNDEBERG AND WALTON;* ASSISTANT PROFESSOR REID

To be eligible for graduate study in this Department, the student should have credit for four years of college work in the chosen language; or eighteen hours beyond the conventional two units offered at entrance to college. In addition to this minimum requirement, one semester of composition and grammar review is highly desirable.

It is recommended that candidates for the Master's degree take a second Romance Language for the minor subject.

A candidate for the Ph.D. degree should be equipped to follow graduate courses in a second Romance Language. Some training in Romance Linguistics will be required for this degree, the amount to be determined by the Department upon consideration of the student's preparation in the field.

* Absent on leave, second semester, 1940-41.

FRENCH

FOR SENIORS AND GRADUATES

213-214. The Classical Movement in French Literature of the Seventeenth and Eighteenth Centuries.—6 s.h. ASSOCIATE PROFESSOR WALTON

215-216. The Modern French Novel.—A survey of the novel form from the seventeenth to the twentieth centuries, with particular attention to the analysis of fundamental literary tendencies: classicism, rationalism, romanticism, and realism. 6 s.h. PROFESSOR JORDAN

217. French Phonetics.—French sounds and French spelling; pronunciation drills; exercises in phonetic transcription and dictation; aural comprehension. 3 s.h. PROFESSOR WEBB
[Not offered in 1940-41]

218. Materials and Methods.—History of the teaching of French; methods; the course of study; analysis and criticism of representative texts; tests and examinations; objectives in the light of teaching conditions, equipment, and future application. *First semester.* 3 s.h. PROFESSOR WEBB

219. Old French.—An introduction to the Old French language and literature. 3 s.h. PROFESSOR COWPER

220. Old French.—Types of Old French literature. 3 s.h.
[Not offered in 1940-41] PROFESSOR COWPER

227. French Poetry since Théophile Gautier.—3 s.h.
[Not offered in 1940-41] ASSOCIATE PROFESSOR WALTON

232. Rousseau and the Beginnings of Romanticism.—3 s.h.
PROFESSOR COWPER

233. Main Currents of Modern French Literature.—A survey of the principal literary tendencies from the seventeenth to the nineteenth centuries. Selected illustrative readings from leading authors. *Second semester.* 3 s.h.
ASSOCIATE PROFESSOR WALTON

FOR GRADUATES

317. History of the French Language.—3 s.h. PROFESSOR COWPER
[Not offered in 1940-41]

323-324. Realism and Naturalism.—6 s.h. PROFESSOR JORDAN
[Not offered in 1940-41]

325-326. French Literature in the Sixteenth Century.—6 s.h.
[Not offered in 1940-41] ASSOCIATE PROFESSOR WALTON

328. Anatole France.—3 s.h. ASSOCIATE PROFESSOR WALTON
[Not offered in 1940-41]

329. History of French Civilization.—3 s.h. PROFESSOR WEBB
[Not offered in 1940-41]

331. Diderot and the Encyclopédie.—3 s.h. PROFESSOR COWPER
[Not offered in 1940-41]

333-334. Contemporary French Literature.—6 s.h. PROFESSOR JORDAN

350. Nineteenth-Century French Criticism.—3 s.h. PROFESSOR JORDAN
[Not offered in 1940-41]

SPANISH

FOR SENIORS AND GRADUATES

253. **Spanish Phonetics.**—The sounds of the Spanish language; sound changes; intonation; exercises in transcription; regional pronunciation; limited use of electrical recording machines. Prerequisites: Spanish 65-66, or 3-4 with permission. (Enrollment limited to fifteen students.) 3 s.h.
ASSOCIATE PROFESSOR LUNDEBERG

254. **Materials and Methods.**—History of the teaching of Spanish; survey of methods and objectives; evaluation of representative texts; tests, word counts and auxiliary devices; the course of study. Prerequisites: Spanish 65-66 or equivalent. 3 s.h. ASSOCIATE PROFESSOR LUNDEBERG
[Not offered in 1940-41]

260. **Advanced Syntax and Composition.**—Systematic review of Spanish syntax; free oral and written composition; selected translation assignments; epistolary forms, etc. Conducted mainly in Spanish. Prerequisite: Spanish 65-66. (Enrollment limited to fifteen students.) 3 s.h.
ASSISTANT PROFESSOR REID

261-262. **The Modern Spanish Novel.**—6 s.h.
ASSOCIATE PROFESSOR LUNDEBERG

265. **Golden Age Literature: Cervantes.**—The *Novelas ejemplares:* analytic study of the tales, their sources, style, literary importance, and influence on world literature. 3 s.h. ASSOCIATE PROFESSOR LUNDEBERG
[Not offered in 1940-41]

266. **Golden Age Literature: The Don Juan Theme.**—Study of representative Don Juan plays of the Golden Age; special reference to the use of this motif by later writers in Spain and abroad. 3 s.h.
[Not offered in 1940-41] ASSOCIATE PROFESSOR LUNDEBERG

SOCIOLOGY

PROFESSOR ELLWOOD, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES—303 GRAY BUILDING; PROFESSORS GROVES, HART AND JENSEN;* ASSISTANT PROFESSOR THOMPSON

205. **Social Pathology.**—A study of the causes, extent, significance, and constructive treatment of the principal forms of pathology in modern society: poverty, physical defectiveness, malnutrition, mental deficiency, mental disease, undirected leisure activities, and unstandardized commercial recreation, alcoholism, prostitution, vagrancy, and delinquency. Prerequisite: course 91-92 or 101. *Second semester.* 3 s.h. PROFESSOR JENSEN

206. **Criminology.**—A study of the original tendencies of man and the problem of socializing these tendencies; the relations of physical and mental defectiveness and untoward influences in the home and neighborhood to crime; the development of criminological theory and procedure, emphasizing penal and reform methods, and especially modern methods of social treatment and prevention of crime. Prerequisite: course 91-92 or 101. 3 s.h.
PROFESSOR JENSEN

212. **Child Welfare.**—A study of heredity and environment as factors in personality development; infant conservation; welfare responsibilities of the school, emphasizing the physical and mental well-being of the child, play, and compulsory and industrial education; child labor, diagnosis and treatment of delinquency; care of the dependent and neglected child; child-caring agencies, public and private; and a community program of child welfare. Prerequisite: course 91-92 or 101. 3 s.h. PROFESSOR JENSEN
[Not offered in 1940-41]

* Absent on leave, first semester, 1940-41.

213. Constructive Social Policies.—An intensive study of the theories and legislation dealing with such problems as compensation, vocational re-education, and other methods of social insurance and social improvement. **2 s.h.**
[Not offered in 1940-41] PROFESSOR JENSEN

219. Urban Sociology.—This course studies the function of the city in the larger community which it nucleates both as market and as industrial center. More detailed attention, however, is given to the inner life and problems of the city. Prerequisite: course 91-92 or 101. **3 s.h.**
ASSISTANT PROFESSOR THOMPSON

220. Rural Sociology.—A study of the societies developed by people who settle the land and exploit it for a livelihood. The institutions peculiarly rural are the farm family, the peasant village, the ranch, and the plantation. In this course special attention is given to the plantation and the rural problems of the South. Prerequisite: course 91-92 or 101. **3 s.h.**
ASSISTANT PROFESSOR THOMPSON

227. Emigration and Immigration.—A study of territorial movements of population with especial reference to Europe and America. Causes and extent of migration; its effect upon American and European society; origin and characteristics of immigrant groups and their organization in the New World; problems, agencies, and processes of assimilation. Prerequisite: course 91-92 or 101. **3 s.h.** PROFESSOR JENSEN
[Not offered in 1940-41]

231. General Anthropology.—A study of the evolution of man and of human culture. The prehistoric human types; modern races; the evolution of tools, technology, family life, political institutions, art, and language. Prerequisite: course 91-92 or 101. **3 s.h.** PROFESSOR HART

232. Cultural Anthropology.—A study of the processes of cultural change. The emergence of magic, religion, morals, and science; invention and diffusion; the dynamics of social change; the role and methods of the social innovator. **3 s.h.** PROFESSOR HART
[Not offered in 1940-41]

233. The World Crisis in the Light of Social Anthropology.—Present world issues in the light of the trends of human culture and of the dynamic processes through which men may take part in determining the future of civilization. **3 s.h.** PROFESSOR HART
[Not offered in 1940-41]

234. Social Ethics.—An attempt to develop answers to such questions as: How can potential leaders discover and acquire the skills required for rendering their fullest service to their fellow men, particularly capacities for creative co-operation and insight? On what intellectually and scientifically sound basis can one formulate the fundamental policies of one's life? On what ultimate criteria are social policies to be based? **3 s.h.** PROFESSOR HART

236. The American Indian.—The origin, history, and culture of the American Indian stocks, with especial reference to those of North America. **3 s.h.**
[Not offered in 1940-41]

242. Marriage and the Family.—An analysis of contemporary marriage and family experience with emphasis on its functions, problems, resources, and values. Prerequisite for undergraduate credit: Sociology 91-92 or 101. **2 s.h.**
[Not offered in 1940-41]

252. Education and Social Control.—A study of education as an agency of social progress from primitive times to the present. **2 s.h.**
PROFESSOR ELLWOOD

281. Public Opinion.—The fundamental problems and processes of social control and social change in democratically organized groups; the nature and development of public opinion, its cultural and psychological bases, the role of leadership, pressure groups, prestige, propaganda, censorship, advertising, the press, the motion picture, the radio, the graphic arts, etc. in its management and dissemination. **3 s.h.** PROFESSOR JENSEN

[Not offered in 1940-41]

FOR GRADUATES

317. Seminar in Anthropology.—A seminar for advanced students who wish to pursue individual studies in racial or cultural anthropology. Only students who have satisfactorily completed courses 231 and 232, or their equivalents, will be admitted. **1 to 3 s.h.** PROFESSOR HART

318. Religion and the World Crisis.—An inquiry into the bearings of religion upon the past social evolution and upon the possible future development of civilization. **3 s.h.** PROFESSOR HART

319. Principles of Sociology.—A critical study of sociological theory. The sociological theories of recent writers will be critically examined with a view to laying the foundation for a constructive theory of the social life in modern biology and psychology. Discussions and papers by the class. **3 s.h.** PROFESSOR ELLWOOD

320. History of Social Philosophy.—Lectures on the development of social thought from Aristotle to the present: the social philosophies of Plato, Aristotle, St. Augustine, Thomas Aquinas, Machiavelli, Bodin, Hobbes, Locke, Vico, Montesquieu, Rousseau, Condorcet, and the sociological systems of Comte, Spencer, Schaeffle, Lilienfeldt, Gumplowicz, Ratzenhofer, and Ward will, among others, be considered. A large amount of assigned reading will be required in this course. The student is advised to correlate this course with related courses in economics, history, political science, and philosophy. **3 s.h.** PROFESSOR ELLWOOD

322. Methods of Social Research.—A study of the various methods of research and investigation that can be applied to the study of social phenomena. **3 s.h.** PROFESSOR JENSEN

330. Seminar.—Research work upon special problems in sociology and social work. One hour each week throughout the year. **1 s.h.** *each semester.* PROFESSORS ELLWOOD, HART, AND JENSEN; ASSISTANT PROFESSOR THOMPSON

340. Seminar.—Special problems in race relations, urban and rural life, and the sociology of the South generally. **3 s.h.** *each semester.* ASSISTANT PROFESSOR THOMPSON

342. Seminar in Marriage and the Family.—Special problems. Open to graduate students who have had at least twelve hours in Sociology and to all students in the School of Religion. **2-4 s.h.** PROFESSOR GROVES (U. N. C.)

350. Seminar in Applied Sociology.—Special research problems in social pathology, child welfare, criminology and related topics. *Second semester.* **1 to 3 s.h.** PROFESSOR JENSEN

351. Seminar in Medical Sociology.—The basic principles of the various medical specialties as applied to the problems of marriage and the family. Open only to graduate students in sociology, with the consent of the instructor and of the Director of Graduate Studies. Given by the Staff of the Medical School under the direction of Dr. Bayard Carter, M.D. **2 s.h.**

352. Seminar in Family Law.—A seminar approach to the efforts of the social sciences, including law, to deal with the intricate and perplexing problems of the modern family. Readings are assigned in legal and sociological material. **2 s.h.** PROFESSOR BRADWAY

RELATED COURSES IN OTHER DEPARTMENTS

Economics 218. Population Problems and the Standard of Living.—3 s.h. PROFESSOR SPENGLER

Economics 315. Economic Systems.—3 s.h. PROFESSOR HOOVER

Economics 316. Economic Functions of the State.—3 s.h. PROFESSOR HOOVER

Philosophy 205. Philosophy of History.—3 s.h. PROFESSOR WIDGERY

Political Science 223. Political Thought to the Seventeenth Century.—3 s.h. PROFESSOR WILSON
[Not offered in 1940-41]

Political Science 224. Modern Political Theory.—3 s.h.
[Not offered in 1940-41] PROFESSOR WILSON

Psychology 206. Social Psychology.—2 s.h. ASSOCIATE PROFESSOR ADAMS

ZOOLOGY

PROFESSOR PEARSE, CHAIRMAN—219 BIOLOGY BUILDING; PROFESSOR HARGITT, DIRECTOR OF GRADUATE STUDIES—326 BIOLOGY BUILDING; PROFESSORS CUNNINGHAM AND HALL; ASSOCIATE PROFESSOR GRAY; DR. BOOKHOUT

For admission to candidacy for the Master's degree the applicant should have completed an undergraduate major in zoology, or its equivalent (courses in general science and botany cannot be counted as a part of the zoology major). This normally amounts to about twenty-four semester hours of course work, which should be distributed among the various fields of zoology, and must include comparative anatomy of vertebrates or vertebrate zoology, physiology and embryology. This major work must have been passed with good grades. At least one year of chemistry is required, and a year of physics is recommended. Work for the degree will require eighteen hours in advanced courses in zoology, six hours in a minor department, and a thesis.

For admission to candidacy for the Ph.D. degree it is expected that the undergraduate major in zoology will amount to about thirty-two hours which have been passed with good grades. Comparative anatomy of vertebrates or vertebrate zoology, physiology and embryology must be included in the undergraduate major. At least two years of chemistry and one year of botany are required and one year of physics is recommended; for certain fields organic chemistry is desirable. Toward the end of the first year of residence a committee will be appointed for each candidate, which will review his preparation and set specific requirements which must be met to receive the degree. This program will include one or more graduate courses in each of several fields of zoology; broad knowledge of science in general and of biology in particular, attained by wide reading; required major and minor courses, and research; and a satisfactory dissertation which is the result of original work. The Department requires that a first draft of the dissertation shall be complete by March 15 of the year in which the degree is to be conferred. At least one year before the degree is to be conferred each candidate must pass an examination on the whole field of zoology and the minor.

FOR SENIORS AND GRADUATES

204. Advanced Parasitology.—Lectures, conferences, readings, and laboratory work, dealing with practical and theoretical matters relating to animal parasites. Offered in alternate years. Prerequisite: Zoology 161. 3 or 4 s.h. PROFESSOR PEARSE

222. **Entomology.**—Anatomy, physiology, embryology and classification of insects. Offered in alternate years. Prerequisite: one year of zoology. **4 s.h.** ASSOCIATE PROFESSOR GRAY
[Not offered in 1940-41]

224. **Vertebrate Zoology.**—A study of the life histories, adaptations, ecology, and classification of vertebrate animals. Offered in alternate years. Prerequisite: Zoology 53. **4 s.h.** ASSOCIATE PROFESSOR GRAY

229. **Endocrinology.**—The structure, physiology, and embryology of the endocrine glands. Lectures, reading assignments, and reports. Prerequisite: Zoology 53, 92. **3 or 4 s.h.** PROFESSOR CUNNINGHAM

FOR GRADUATES

303. **Ecology.**—Relation of animals to environment. Lectures, readings, reports, conferences; laboratory and field work. Offered in alternate years. **4 s.h.** PROFESSOR PEARSE

306. **Advanced Ecology.**—Lectures, conferences, field work and methods. Offered in alternate years. Prerequisite: Zoology 303. **4 s.h.** PROFESSOR PEARSE

307. **Foundations of Zoology.**—Lectures, readings, and discussions on the background and training essential for a professional zoologist. Offered in alternate years. **2 s.h.** PROFESSOR PEARSE
[Not offered in 1940-41]

321. **General Physiology.**—Comparative study of functions in all animal groups, especially of vertebrates. Lectures, laboratory work, and conferences. **4 s.h.** PROFESSOR HALL

324. **Advanced Physiology.**—Present-day problems in physiology, with laboratory projects involving precise instrumental analyses. Lectures, conferences, and laboratory work. Prerequisite: Zoology 151 or 321. **4 s.h.** PROFESSOR HALL

327. **Experimental Embryology.**—Lectures, assigned readings, and reports. Offered in alternate years. Prerequisites: Zoology 92, 151 or 321. **3 s.h.**
[Not offered in 1940-41] PROFESSOR CUNNINGHAM

341. **Historical and Philosophical Zoology.**—Readings and discussions. A critical study of the development of modern biological concepts and theories, their past and present significance. Offered in alternate years. **2 s.h.** PROFESSOR HARGITT

343. **Cytology.**—The structure of the cell. Lectures, readings, reports and laboratory work. Offered in alternate years. Prerequisites: Zoology 53, 92, 156 or equivalents. **4 s.h.** PROFESSOR HARGITT
[Not offered in 1940-41]

351-352. **Zoological Journal Club.**—A weekly meeting of graduate students and Faculty to hear reports and to discuss biological facts, theories, and problems. One hour a week throughout the year. Required of all graduate students who major in zoology. **2 s.h.** STAFF

353-354. **Research.**—Students who have had proper training may carry on research under direction of members of the Staff, in the following fields:

(a) **Embryology and Endocrinology.** PROFESSOR CUNNINGHAM

(b) **Comparative and General Physiology.** PROFESSOR HALL

(c) **Histology and Cytology.** PROFESSOR HARGITT

(d) **Invertebrate Zoology.** DR. BOOKHOUT

(e) **Ecology, Parasitology, and Behavior.** PROFESSOR PEARSE

(f) **Vertebrate Zoology and Entomology.** ASSOCIATE PROFESSOR GRAY
Hours and credits to be arranged.

355-356. Seminar.—Special seminar courses in particular fields are given by various professors when the number of students makes them desirable. Hours and credits to be arranged.

(a) **Embryology and Endocrinology.** PROFESSOR CUNNINGHAM

*(b) **Comparative and General Physiology.** PROFESSOR HALL

(c) **Histology and Cytology.** PROFESSOR HARGITT

*(d) **Invertebrate Zoology.** DR. BOOKHOUT

*(e) **Ecology, Parasitology, and Behavior.** PROFESSOR PEARSE

*(f) **Vertebrate Zoology and Entomology.** ASSOCIATE PROFESSOR GRAY

RELATED COURSES IN OTHER DEPARTMENTS

Courses such as the following should be considered as available for students in zoology:

Botany 202. Genetics.—4 s.h. ASSISTANT PROFESSOR PERRY

Botany 221. Structure and Classification of Fungi.—4 s.h.
PROFESSOR WOLF

Botany 256. Field Ecology.—4 s.h. ASSISTANT PROFESSOR OOSTING

Botany 341. Methods in Plant Physiology.—4 s.h.
[Not offered in 1940-41] ASSOCIATE PROFESSOR KRAMER

Botany 342. Plant Microchemistry.—2 s.h. ASSISTANT PROFESSOR ADDOMS

Chemistry 261-262. Physical Chemistry.—6 s.h.
PROFESSOR GROSS, ASSISTANT PROFESSOR SAYLOR, AND DR. HOBBS

Physics 103. Electricity and Magnetism.—(Undergraduate credit only.) 3 s.h. ASSISTANT PROFESSOR CONSTANT

Physics 104. Electrical Measurements.—(Undergraduate credit only.) 3 s.h. PROFESSOR NIELSEN AND ASSISTANT PROFESSOR CONSTANT

Physics 205-206. Physical Optics.—6 s.h. PROFESSOR HATLEY

M221. Bacteriology and Immunology.—4 s.h. DR. D. T. SMITH AND STAFF

M323. Advanced Bacteriology and Immunology.—8 s.h.
DR. D. T. SMITH AND STAFF

M241. General Biochemistry.—6 s.h.
DRS. PERLZWEIG AND TAYLOR, AND STAFF

M263. Physiology of Digestion, Metabolism, and Nutrition.—2 s.h.
DRS. W. J. DANN, EADIE, AND F. M. BERNHEIM

M363-364. Advanced Seminar in Nutrition.—4 s.h. DR. DANN

* [Not offered in 1940-41]

COURSES IN THE MEDICAL SCHOOL OPEN TO GRADUATE STUDENTS

PROFESSORS EADIE, PERLZWEIG, D. T. SMITH, AND SWETT; ASSOCIATE PROFESSORS F. M. BERNHEIM, DANN, HETHERINGTON, MARTIN, MCCREA, AND TAYLOR; ASSISTANT PROFESSORS M. L. C. BERNHEIM, CONANT, EVERETT, HOLLINSHEAD, AND NEURATH; DRS. COOLIDGE AND YOUNGSTROM

The facilities of the departments listed below are available to qualified students for independent or supervised research and investigations whether working for advanced degrees or otherwise.

Graduate students desiring to pursue a major or a minor in any of the departments listed below or to be admitted to any of the courses listed below should consult or write to the head of the Department concerned: Anatomy, Dr. Swett; Bacteriology, Dr. D. T. Smith; Biochemistry, Dr. Perlzweig; Physiology and Pharmacology, Dr. Eadie; Nutrition, Dr. Dann.

ANATOMY

M201. Gross Human Anatomy.—A course especially designed for graduate students, comprising a complete dissection of the cadaver. The laboratory work is supplemented by conferences which place emphasis on the biological aspects of the subject. *Fall and winter quarters.* Hours and credits (maximum **8 s.h.**) by arrangement. Prerequisites: adequate training in comparative anatomy and embryology. DR. SWETT AND STAFF

M202. Microscopic Anatomy.—Conferences and laboratory work on the morphological characteristics of the tissues of the animal body. The work is based upon a study of fresh and prepared material and is approached from the physiological viewpoint. *Fall quarter.* Hours and credits (maximum **2 s.h.**) by arrangement. Prerequisite: adequate training in histology or cytology. DR. HETHERINGTON AND STAFF

M203. Anatomy of the Nervous System.—A study of the gross and microscopic structure of the human central nervous system, special attention being paid to the structural and functional relationships between the various nuclei and fiber tracts. *Winter quarter.* Hours and credits (maximum **4 s.h.**) by arrangement. Prerequisite: Anatomy M201. DR. HETHERINGTON

BACTERIOLOGY AND IMMUNOLOGY

M221. Bacteriology and Immunology.—This course is devoted primarily to the study of the biological and immunological relationships of microorganisms in disease. It is not a course in bacteriologic technique. An additional course in technical methods is provided for those who require it. Two hours lecture and 8 hours laboratory per week in fall quarter. Prerequisites: courses in general zoology, general botany, histology and comparative anatomy, general and organic chemistry. **4 s.h.**

DR. D. T. SMITH AND STAFF

M323. Advanced Bacteriology and Immunology.—This course is intended primarily for graduate students majoring in bacteriology, but it is also available as a minor to such other graduate students in related fields, to whom it is recommended by respective supervising committees and with the approval of the Department of Bacteriology. **8 s.h.** DR. D. T. SMITH AND STAFF

BIOCHEMISTRY

M241. General Biochemistry.—Three lectures, four laboratory periods of three hours each, and one two-hour seminar weekly for eleven weeks. Prerequisites: general chemistry, organic chemistry, elementary, physical and analytical chemistry and at least one year of college biology. *Winter quarter.* **6 s.h.** DRS. PERLZWEIG AND TAYLOR, AND STAFF

M242. Biochemical Preparations.—Eight hours laboratory with conferences when necessary. This course involves detailed study of the chemistry of enzymes, proteins, fats, carbohydrates and derivatives. Prerequisite: Biochemistry M241. *Spring, summer, fall quarters.* Hours by arrangement. **2 s.h.** DR. TAYLOR AND STAFF

M243-244. Physical Chemical and Colloid Chemical Principles of Biochemistry.—Special emphasis is given to the structure and physical chemistry of proteins, enzymes, viruses, etc. Two hours per week throughout the year. DR. NEURATH

M341. Pathological Chemistry.—Seminar course devoted to a detailed study of the chemical and physical chemical aspects of normal and abnormal metabolism. Two hours per week by arrangement. Prerequisites: Biochemistry M241 and Physiology M251-2. *Spring quarter.*

Laboratory work consisting chiefly of blood and urine analysis in relation to problems discussed will be provided for students desiring it.

DRS. PERLZWEIG, TAYLOR, AND M. L. C. BERNHEIM

PHYSIOLOGY AND PHARMACOLOGY

M261-2. Human Physiology and Pharmacology.—Six lectures and twenty laboratory hours per week. Prerequisites: Anatomy M201 and Biochemistry M241 (or equivalents) and at least one year of college physics. *Spring quarter.* Credits depending on work taken. (Maximum **8 s.h.**)

The lectures in pharmacology, two hours per week, are included in this course and may be taken separately or omitted, depending upon the needs of the student. DR. EADIE AND STAFF

M263. Physiology of Digestion, Metabolism, and Nutrition.—Two hours lectures and conferences and the equivalent of one laboratory period of three hours per week. Prerequisite: Biochemistry M241. *Spring quarter.* **2 s.h.**

This course constitutes a part of Physiology M261-2, but may be taken separately. DRS. W. J. DANN, EADIE, AND F. M. BERNHEIM

M363-4. Advanced Seminar in Nutrition.—Prerequisites: Biochemistry M241 and Physiology M251 or equivalents. Two hours weekly. **4 s.h.**

DR. DANN

ADVANCED DEGREES CONFERRED JUNE 5, 1939

MASTER OF ARTS

*Allaben, Sara Elizabeth
Austin, Marguerite Zelle
*Ayers, Archie Raymond
Bagley, Mariana Dasch
*Baker, Ruth Maurine
*Barbour, William Johnston
Baum, Rhoda May
*Baxter, James Edward
Beam, Joshua Paul
Beckman, John Fink
*Bramlette, Nancy Lucile
*Brandis, Roland Buford, Jr.
*Brewster, James Pendleton
Bridges, Daniel Moody
*Bussell, Wilsie Florence
*Clifton, Chester Stanley
Colley, Frank Harris
*Couch, Leon Voight
*Covington, Mary Faison
Cox, Headley Morris, Jr.
Derr, Paul Franklin
Dillard, Kathryn
Doty, Roy A., Jr.
Douglas, Jessie Owens
Duehring, Frederica Elizabeth
Duehring, Virginia Atwell
*Dunsky, Irvin
*Durrance, S. P., Jr.
*Durst, Margaret Rebecca
*Echerd, Eugenia Mae
*Erckman, William James
*Flemister, Launcelot Johnson, Jr.
Fletcher, Mary Little
Fletcher, Mildred Jane
*Flora, Anne Putney
Formwalt, John McClellan
*Frank, Letitia Morehouse
*Gaulding, Roxie Geraldine
Gould, Robert Kent
*Gunson, Mildred Sneed
*Halsall, Earl Buggle
Haman, James Blanding
Hartness, Edna Buree
Hausser, Harry Edward
*Hood, Ralph Erskine
*Hopkins, Anne Pleasants
Howie, Naomi
*Hulbert, Marie Jones
*Hurt, James Lewis
*Isenhour, Catharine Elizabeth
*Kelley, Joseph Jackson
*Kinney, Hinton Eugene
*Landis, Allyne Wilder
*Luttrell, Everett Stanley
*McDaniel, Anne Elizabeth
McDermott, John Joseph
*Marston, Helen Mount
*Merrick, Gordon Danforth
*Merritt, Effie Mae
Miles, Ernest Percy, Jr.
*Millar, Helen Mary
*Miller, Nancy Hartley
Morgan, John Wesley
Mountjoy, Marjorie
Munster, Ralf Friedrich William
*Myers, Carl Francis, Jr.
Parks, Helen Clare
*Peters, Thelma Peterson
*Phillips, Paul L.
Pope, Marvin Hoyle
Poston, Mary Alverta
*Ravenel, William Bee, III
*Rawl, William Asmann, Jr.
*Roberts, Mary Alma
Russ, Alexander
Scarborough, Henry Baldwin
*Shaw, John Sidney
Simmons, Alma Julia
Singer, Armand Edwards
*Smith, Alva Lee
*Smith, Ollie Sanders
*Snedegar, Dorothy May
Summers, George Boyd
Torrisi, Alfred Fred
*Uhler, Katherine Maher
*Walters, Eleanor Boyd
*Watson, Florence Kathleen
Weems, Benjamin Burch
*Wertz, Roy Albert
Whelchell, Laura Darwin
*Williams, William Lane
*Wood, Fredric Marcus, Jr.
Woodruff, Joseph Leroy
Young, Mabel Dorothy

MASTER OF EDUCATION

*Bigham, Virgil Lee, Jr.
*Boswell, Albert Sidney
*Campbell, Carrie Margaret Smith
*Campbell, Robert Earle

* Degree conferred *in absentia.*

*Carruth, Christian Hoover, Jr.
*Cassell, Hugh Kent
*Casto, Margaret Atkinson
*Davis, Donald Albert
*Demorest, Merrick Albert
Edmundson, Mary Lois
*Folger, Ruth Marinda
*Francis, Joseph Langhorne
*Frear, Edgar Paul
Gentry, John Baker, Jr.
*Hardman, Linn Jackson
*Harrison, Carl Ross
*Jacks, William LeRoy
*Jenkins, Roy Brown
*Joiner, Oscar Hardy
Jones, Elijah Newman
*Kelley, J. T.
*Lambert, James Alfred
*Landis, Robert James
*Langford, Rupert Wesley
*Levin, Florence Cecilia
*Lewis, Gomer, Jr.
*McCamey, Kathryn Elizabeth
*McDermott, Milford June
*Madison, Blaine Mark
*Marshall, Clarence William
*Miller, Charles Lee, Jr.
*Mitchell, Edna Mae
*Moler, James Milton
*Painter, Edward Jackson
*Palmour, Charles E. Anthony
*Pearson, Anna Sophia
Pittman, Louie Delle
*Reeves, Marie Louise
*Ross, William Alexander
*Spainhour, Richard Edward
*Stauffer, Russell George
Tarrall, Elmer
*Taylor, Doris Lavenia
*Tew, Thelma Pearle
Townsend, Harley Vance
*Vinson, Raymond Augustus
*Wagner, Carl Leon
*Wake, Orville Wentworth
*Wolfe, Quentin Donald
*Wollet, Charles Elmer
*Worley, Claude

DOCTOR OF PHILOSOPHY

AYERS, JOHN CARR, A.B., Kalamazoo College; M.S., Kansas State College.
Dissertation: *The Cytology of the Anterior Hypophysis of the Immature Albino Rat.*

BRIGHT, ROBERT DIETRICH, A.B., Dartmouth College.
Dissertation: *A Study of Certain Rearrangements and Elimination Reactions Effected by Bases.*

BROWN, DALTON MILFORD, B.S., M.S., University of Tennessee.
Dissertation: *The Vegetation of Roan Mountain: An Ecological Study.*

CHRISTENSON, JAMES ANDREAS, JR., A.B., Harvard College.
Dissertation: *A Questionnaire Analysis of Personality in Terms of Certain Motivational Categories.*

CLEAVES, ALDEN PARKER, A.B., A.M., Boston University.
Dissertation: *The Infrared Absorption Spectrum of Methylamine Vapor.*

COOPER, GERALD RICE, A.B., A.M., Duke University.
Dissertation: *The Study of Complex Ions in Solution by Means of Spectrophotometric Measurements and the Measurement of Magnetic Susceptibility.*

COPELAND, LEWIS CAMPBELL, A.B., Texas Christian University; A.M., University of Chicago.
Dissertation: *The Function of Racial Ideologies with Special Reference to the Beliefs about the Negro.*

CORRELL, DONOVAN STEWART, A.B., A.M., Duke University.
Dissertation: *A Taxonomic and Distributional Study of the Orchids of the Southeastern United States.*

CREEGAN, ROBERT FRANCIS, A.B., Marietta College; A.M., Duke University.
Dissertation: *Human Individuality, Philosophically Considered.*

EDWARDS, ALLEN DAVID, B.S., Western State Teachers College; Ph.M., University of Wisconsin.
Dissertation: *Influence of Drought and Depression on a Rural Community: A Case Study of Haskell County, Kansas.*

* Degree conferred *in absentia.*

FOERSTER, ALMA PAULINE, A.B., Mount Holyoke College; A.M., Smith College.
Dissertation: *The State University in the Old South: A Study of Social and Intellectual Influences in State University Education.*

GARBER, PAUL LESLIE, A.B., College of Wooster; B.D., Th.M., Louisville Presbyterian Theological Seminary.
Dissertation: *The Religious Thought of James Henley Thornwell.*

GODBOLD, ALBEA, A.B., B.D., Southern Methodist University; A.M., Yale University.
Dissertation: *Some Factors in the Rise and Character of the Church Colleges in the Ante-Bellum Seaboard South.*

HARWELL, GEORGE CORBIN, A.B., A.M., Duke University.
Dissertation: *A Concordance to the Poetical Works of Matthew Arnold.*

HECKMAN, OLIVER SAXON, A.B., Lebanon Valley College; A.M., University of Illinois.
Dissertation: *Northern Church Penetration of the South, 1860-1880.*

HENDERSON, ALFRED JAMES, A.B., A.M., University of Rochester.
Dissertation: *London and the National Government, 1721-1742: A Study of City Politics and the Walpole Administration.*

KIRBY-SMITH, JOHN SELDEN, B.S., University of the South; A.M., Duke University.
Dissertation: *The Raman Spectra of the Gaseous Methyl Amines.*

KLEIN, JAMES RAYMOND, A.B., Duke University.
Dissertation: *A Study of the Tissue Metabolism of the Rat in Relation to Thyroid Activity.*

MCGAVOCK, WILLIAM GILLESPIE, B.S., Davidson College; A.M., Duke University.
Dissertation: *Annihilators of Quadratic Forms with Applications to Pfaffian Systems.*

MOORE, EUNICE MARTHA, B.S., Maryland College for Women; A.M., Johns Hopkins University.
Dissertation: *The Determination of the Dipole Moments of Some Organic Vapors.*

MOORE, JERRY HAMILTON, B.S., Clemson College; M.S., N. C. State College.
Dissertation: *The Distribution of the Fiber Population on the Cotton Seed and Its Relation to Fiber Length and Unit Fiber Weight in Five Varieties of American Upland Cotton.*

OLIVER, HENRY MADISON, JR., A.B., Southwestern; A.M., Duke University.
Dissertation: *Some Concepts of Economic Justice.*

PECK, ROBERT LAWRENCE, B.S., Duke University.
Dissertation: *Chemical Studies of Certain Pathogenic Fungi.*

POHL, HERBERT ACKLAND, A.B., Duke University.
Dissertation: *Dielectic Polarization of Carboxylic Acids in Dilute Non-Polar Solutions in Relation to Association.*

POOL, FRANK KENNETH, A.B., A.M., Wake Forest College; Th.M., The Southern Baptist Theological Seminary.
Dissertation: *The Southern Negro in the Methodist Episcopal Church.*

SHARP, DAVID GORDON, B.S., Rutgers University; A.M., Duke University.
Dissertation: *A Study of Certain Effects of Short Ultraviolet Rays on Several Species of Bacteria.*

TILLEY, NANNIE MAY, A.B., Woman's College of the University of North Carolina; A.M., Duke University.
Dissertation: *The Bright-Tobacco Industry, 1860-1929.*

VERMILLION, HERBERT EDWARD, B.S., Monmouth College.
Dissertation: *The Solubility of Some Aromatic Hydrocarbons and Their Halogen Derivatives in Water and the Solubility of Nitrobenzine in Deuterium Oxide.*

WANG, YEN-CHIEH, B.S., National Tsing Hua University; M.S., Cornell University.
Dissertation: *Studies of Interactions of Certain Site Factors and Young Loblolly Pine* (Pinus taeda *L.*) *Plantations.*

WATSON, KARL BRANTLEY, JR., B.S., A.B., University of Chattanooga; A.M., Duke University.
Dissertation: *An Experimental Study of Musical Meanings.*

WHARTON, GEORGE WILLARD, JR., B.S., Duke University.
Dissertation: *Ecological Studies on Certain Turtle Parasites.*

SUMMARY OF ENROLLMENT IN THE GRADUATE SCHOOL

Graduate students, Academic Year 1939-40	296
Graduate students, First Summer Term, 1939	869
Graduate students, Second Summer Term, 1939	392
Graduate students, Junaluska Summer School, 1939	17
Total	1,574
Deduct for duplications	344
Total Enrollment	1,230

VOLUME 12 May, 1940 NUMBER 7

BULLETIN OF DUKE UNIVERSITY

The School of Religion

1939-1940
ANNOUNCEMENTS FOR 1940-1941

PUBLISHED BY THE UNIVERSITY
DURHAM, NORTH CAROLINA

ANNUAL BULLETINS

For General Bulletin of Duke University, apply to *The Secretary,* Duke University, Durham, N. C.

For Bulletin of Undergraduate Instruction, apply to *The Secretary,* Duke University, Durham, N. C.

For Bulletin of The Graduate School of Arts and Sciences, apply to *The Dean of the Graduate School,* Duke University, Durham, N. C.

For Bulletin of The School of Law, apply to *The Dean of the School of Law,* Duke University, Durham, N. C.

For Bulletin of The School of Medicine, apply to *The Dean of the School of Medicine,* Duke University, Durham, N. C.

For Bulletin of The School of Nursing, apply to *The Dean of the School of Nursing,* Duke University, Durham, N. C.

For Bulletin of The School of Religion, apply to *The Registrar of the School of Religion,* Duke University, Durham, N. C.

For Bulletin of The School of Forestry, apply to *The Dean of the School of Forestry,* Duke University, Durham, N. C.

For Bulletin of The College of Engineering, apply to *The Secretary,* Duke University, Durham, N. C.

For Bulletin of The Summer School, apply to *The Director of the Summer School,* Duke University, Durham, N. C.

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BULLETIN

OF

DUKE UNIVERSITY

THE SCHOOL OF RELIGION

1939-1940

ANNOUNCEMENTS FOR 1940-1941

DURHAM, NORTH CAROLINA

1940

CALENDAR

1940

Sept.	20.	Friday, 4:00 P.M.—First regular Faculty meeting.
Sept.	21.	Saturday—Matriculation and registration of students.
Sept.	23.	Monday, 8:00 A.M.—Instruction begins.
Sept.	26.	Thursday—Formal opening exercises.
Oct.	5.	Saturday—Last day for submitting subjects for B.D. theses.
Oct.	10.	Thursday—Fall retreat.
Nov.	28.	Thursday—Thanksgiving Day: a holiday.
Dec.	11.	Wednesday—Duke University Day.
Dec.	20.	Friday, 1:00 P.M.—Christmas recess begins.

1941

Jan.	3.	Friday, 8:00 A.M.—Instruction is resumed.
Jan.	17.	Friday—Mid-year examinations begin.
Jan.	31.	Friday—Matriculation and registration for second semester.
Feb.	1.	Saturday—Second semester begins.
March	22.	Saturday, 1:00 P.M.—Spring vacation begins.
March	31.	Monday, 8:00 A.M.—Instruction is resumed.
May	15.	Thursday—Last day for submitting B.D. theses.
May	16.	Friday—Final examinations begin.
May	31.	Saturday—Commencement opens; Senior Class Day; Meeting of Board of Trustees.
June	1.	Sunday—President's Address to Graduating Class; Commencement Sermon.
June	2.	Monday—Commencement Address; Alumni-Alumnae Luncheon; Graduating Exercises; Lowering of the Flag by the Graduating Class.

GENERAL ADMINISTRATION

FEW, WILLIAM PRESTON, A.B., A.M., Ph.D., LL.D., Litt.D.
President of the University

FLOWERS, ROBERT LEE, A.M., LL.D.
Vice-President in the Business Division, Secretary, and Treasurer of the University

WANNAMAKER, WILLIAM HANE, A.B., A.M., Litt.D.
Vice-President in the Educational Division of the University

BROWN, FRANK CLYDE, A.B., A.M., Ph.D.
Comptroller of the University

COMMITTEE OF THE BOARD OF TRUSTEES ON THE SCHOOL OF RELIGION

W. W. Peele, T. M. Grant, J. B. Hurley, T. F. Marr

EDUCATIONAL ADMINISTRATION

RUSSELL, ELBERT, A.B., A.M., Ph.D., Litt.D.
Dean of the School of Religion

GARBER, PAUL NEFF, A.B., A.M., Ph.D.
Registrar of the School of Religion

INSTRUCTIONAL STAFF

*BRANSCOMB, BENNETT HARVIE, A.B., M.A. (Oxon), Ph.D., Litt.D.
Professor of New Testament

**CANNON, JAMES, III, A.B., A.M., Th.B., Th.M., D.D.
Ivey Professor of the History of Religion and Missions

CLARK, KENNETH WILLIS, A.B., B.D., Ph.D.
Assistant Professor of New Testament

DUBS, HOMER HASENPFLUG, A.B., M.A., B.D., Ph.D.
Acting Professor of Philosophy

GARBER, PAUL NEFF, A.B., A.M., Ph.D.
Professor of Church History

HART, HORNELL NORRIS, A.B., A.M., Ph.D.
Professor of Social Ethics

HICKMAN, FRANKLIN SIMPSON, A.B., A.M., S.T.B., Ph.D.
Professor of Preaching and the Psychology of Religion

MYERS, HIRAM EARL, A.B., S.T.B., S.T.M.
Professor of Biblical Literature

ORMOND, JESSE MARVIN, A.B., B.D., D.D.
Professor of Practical Theology

OUTLER, ALBERT COOK, A.B., B.D., Ph.D.
Assistant Professor of Historical Theology

PETRY, RAY C., A.B., A.M., Ph.D.
Assistant Professor of Church History

ROWE, GILBERT THEODORE, A.B., S.T.D., D.D., Litt.D.
Professor of Christian Doctrine

RUSSELL, ELBERT, A.B., A.M., Ph.D., Litt.D.
Professor of Biblical Interpretation

SMITH, HILRIE SHELTON, A.B., Ph.D., D.D.
Professor of Christian Ethics and Religious Education

SPENCE, HERSEY EVERETT, A.B., A.M., B.D., D.D.
Professor of Religious Education

STINESPRING, WILLIAM FRANKLIN, B.A., M.A., Ph.D.
Associate Professor of Old Testament

ADAMS, DONALD KEITH, A.B., M.A., Ph.D.
Associate Professor of Psychology

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* Absent on leave, second semester, 1939-40.
** Absent on leave, second semester, 1940-41.

BARNES, JAMES FOSTER, A.B., A.M.
Instructor in Church Music

CRISPELL, RAYMOND, A.B., M.D.
Associate Professor of Neuropsychiatry

ELWOOD, CHARLES ABRAM, Ph.B., Ph.D., LL.D.
Professor of Sociology

HAINES, HOWARD N., B.S.
Instructor in Church Architecture

JENSEN, HOWARD EIKENBERRY, A.B., A.M., B.D., Ph.D.
Professor of Sociology

LEVER, OSCAR WILLIAM, A.B., A.M.
Instructor in Homiletics and Biblical Literature

LUNDHOLM, HELGE, Ph.D.
Professor of Psychology

MORGAN, GEORGE ALLEN, JR., A.B., A.M., Ph.D.
Associate Professor of Philosophy

THOMPSON, EDGAR TRISTRAM, A.B., A.M., Ph.D.
Assistant Professor of Sociology

WIDGERY, ALBAN GREGORY, B.A., M.A.
Professor of Philosophy

COMMITTEES OF THE FACULTY

Admissions—The Dean, the Registrar, and Professor Smith.

Bulletin—Dean Russell and Professors Cannon, Garber, Spence, and Rowe.

Extension—Professors Hickman, Rowe, Ormond, and Acting Professor Dubs.

Library—Professors Cannon, Rowe, Myers, and Assistant Professors Petry and Clark.

Public Exercises—Dean Russell and Professors Branscomb, Hart, Spence, and Associate Professor Stinespring.

Registration and Advanced Standing—The Registrar, the Dean, and Professor Cannon.

Theses—Professors Cannon, Garber, Hickman, Smith, and Assistant Professor Outler.

Representatives on Joint Committee on Junaluska School of Religion—President Few, Dean Russell, and Professor Garber.

SCHOOL OF RELIGION IN DUKE UNIVERSITY

HISTORICAL STATEMENT

The present Duke University has been gradually developed from a simple beginning in a local school established in 1838 in the northwestern part of Randolph County, North Carolina. This school was enlarged in 1840 and named Union Institute. In 1841 it was incorporated as Union Institute Academy by the legislature of North Carolina. Under the leadership of President Braxton Craven, the Academy grew into an institution chartered as Normal College in 1851. An amendment to the charter in November, 1852, authorized Normal College to grant degrees, and two students were graduated in 1853 with the degree of Bachelor of Arts.

In 1859 the charter of Normal College was amended to place the institution under the control of the Methodist Episcopal Church, South, and the name was changed to Trinity College. Dr. John Franklin Crowell became president of Trinity College in 1887. The most important achievement of his administration was the removal of the College to Durham, North Carolina, which was accomplished by September, 1892.

President Crowell resigned in 1894, and was succeeded by the Reverend John Carlisle Kilgo, D.D. During President Kilgo's administration the endowment of Trinity College was greatly increased, a library and other important buildings were erected, and notable progress was made in increasing the variety and improving the quality of the courses of instruction. A School of Law was established in 1904 by the gift of James B. and Benjamin N. Duke. In 1910 President Kilgo was succeeded by Dr. William Preston Few.

Trinity College has experienced a great expansion in faculty, endowment, buildings, and equipment during President Few's administration. In December, 1924, James B. Duke established a $40,000,000 trust fund for educational and charitable purposes. Trinity College accepted the terms of the indenture of trust on December 29, 1924, and on the following day the name of the institution was changed to Duke University. Mr. Duke's death in 1925 was followed by the announcement of munificent provisions in his will for the development of the University which bears his family name.

THE SCHOOL OF RELIGION

Trinity College was established by Christian men for the purpose of providing education for young men and women under distinctive Christian auspices. There has been no departure from this clearly defined aim. On the contrary, there has been ever increasing emphasis placed upon this feature of the work of the College, especially in the provision in the curriculum for a great variety of courses on the Bible and other religious subjects.

Through the gift of James B. Duke, the School of Religion and its curriculum have been separated from the work of the Department of Religion in Trinity College. Among those for whom his gift was intended Mr. Duke placed ministers first. He felt sure that his native state of North Carolina stood in need primarily of a better educated and more efficiently trained ministry. The organization of the School of Religion of Duke University, the first of the professional schools to start its work, is the carrying out of this intention on the part of Mr. Duke. The work of the School began with the academic year 1926-27, though the formal opening exercises were not held until November 9, 1926.

The School of Religion is a member of the American Association of Theological Schools and was included in the list of accredited theological schools approved by the Association in June, 1938.

THE PURPOSE OF THE SCHOOL OF RELIGION

Christian work has now expanded to the extent that it covers far more than the work of a preacher or minister. The School of Religion of Duke University purposes to offer training for all types of Christian service. This includes missionaries, teachers of Bible and other religious subjects in the schools and colleges of the church, directors of religious education, and social workers. In the future it is planned to fit the courses more completely to the needs of these workers. Still it must be kept clear that the minister in charge of a church, who is placed before the people to preach the Gospel of Christ, is the center and key to the whole problem of Christian work in the church. It is felt with strong conviction that the training of all Christian workers should be maintained on a high level. Consequently, the School of Religion is organized on a strictly graduate basis. It is sincerely hoped that the standard thus set may increasingly influence the type of men and women entering Christian work and may lead them to demand the best of themselves in the prosecution of the work of Christ among men.

RELATION OF THE SCHOOL OF RELIGION TO DUKE UNIVERSITY

As one of the co-ordinate schools of Duke University, the School of Religion is in closest touch with the other schools, particularly with Trinity College and with the Graduate School of Arts and Sciences. Various privileges of Duke University are open to students of the School of Religion. Students in the School are expected to take part in the religious and social life of the University campus and to share in athletic interest and activities.

REQUIREMENTS FOR ADMISSION

Candidates for matriculation must be graduates of colleges of recognized standing. They will be admitted without examination on presentation of an official transcript of all college credits and such other credits as they may have secured. This applies to students coming from foreign

countries as well as to students from institutions in the United States. They must satisfy the Faculty as to their Christian character and purpose. To this end a letter regarding a student's character and purpose from the pastor of his home church, a church official, or some faculty member in the college where he did his undergraduate work, should be presented at the time of admission. Women will be admitted on the same conditions as men. Graduates from nonaccredited institutions may be admitted on probation.

PART-TIME SCHEDULES

Students who are not giving full time to their studies in the School of Religion may carry only limited schedules of class work.

REQUIREMENTS FOR GRADUATION

The requirements for the degree of Bachelor of Divinity are ninety semester hours, six semester hours of which shall be covered by the writing of an adequate thesis, either in a thesis seminar or under supervised thesis guidance. The course is planned to cover three years, of two semesters each. In no case will the degree of Bachelor of Divinity be conferred on a student until he has spent at least two full semesters in residence in the School of Religion, and has satisfactorily completed a minimum of twenty-four semester hours of work.

THESIS

A thesis is required of all candidates for the degree of Bachelor of Divinity. It shall be of such a character as shall evidence a knowledge of the methods of research and an ability to conduct independent investigations. It shall be written upon some topic in the major field of study. The candidate is responsible for the selection of a suitable subject, which must be approved by the professor in charge of the major field, and must be filed with the Dean of the School of Religion on or before October 5 of the academic year in which it is expected that the degree will be conferred. Following the submission and approval of the subject of the thesis no changes shall be permitted, except changes for the purpose of clarification or limitation of the subject. A student who does not complete his thesis within a period of three years from the date of the approval of his subject must secure a reapproval of the old subject or the approval of a new subject. The thesis shall be prepared under the supervision and guidance of the professor in charge of the major field. No student shall be allowed to write his thesis *in absentia* except on the approval of the Committee on Theses upon the recommendation of the professor in charge of the thesis. In all such cases regular reports as to the progress of the thesis must be made to the professor in charge, as often as he may deem wise.

The thesis shall be between one hundred and one hundred and twenty pages in length, inclusive of introduction, conclusion, appendices, and bibliography, except in unusual cases clearly recognized as such by the

Committee on Theses in approving thesis subjects. The student, the director, and the Committee on Theses shall be responsible for the selection and approval of such subjects as can be treated satisfactorily within these limits.

The thesis shall be read by a committee of three members of the Faculty of the School of Religion, one of whom shall be the professor under whose direction the thesis has been written, and two other members appointed by the Dean, one of whom shall be of a department other than that in which the thesis is written. Each candidate shall be examined orally on his thesis by the committee appointed to read it, said examination not to exceed one hour in length. The thesis must be satisfactory to a majority of the members of the Committee of Examination, including the representative of the department in which the thesis was written.

A complete, typed copy of the thesis shall be in the hands of the professor under whom the thesis is written, for correction, by May 1, and three permanently bound typewritten copies shall be presented for examination not later than May 15 of the year in which it is expected the degree will be conferred. Theses submitted after May 15 shall not be considered as fulfilling the requirements for graduation in that academic year. In the case of extensive corrections of the thesis in the course of the examination, such retyping and rebinding of the thesis as the Committee of Examination may desire shall be required.

PRESEMINARY CURRICULUM

The School of Religion in substantial agreement with the standards of the American Association of Theological Schools recommends that prospective candidates for admission keep in mind the desirability of including the following in their undergraduate curriculum:

Two years' work in English literature and composition.

Two years in a foreign language.

One semester each in psychology, philosophy, and sociology (or economics).

One year in history.

An introduction to the natural sciences with adequate laboratory work (biology or one of the physical sciences).

Proficiency in public speaking.

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF DIVINITY

GENERAL REQUIREMENTS

Ninety semester hours are required for graduation. Forty-five of these must be the following:

Old Testament	6 s.h.
New Testament	6 s.h.
Christian Doctrine	6 s.h.
Church History	6 s.h.
Homiletics	6 s.h.
History of Religion and Missions	6 s.h.
Religious Education	3 s.h.
Practical Theology	3 s.h.
Philosophy of Religion and Christian Ethics	3 s.h.
	45 s.h.

MAJORS AND THESES

Each student must select a major field in which he elects to write his thesis and in which he must take fifteen semester hours including the general requirement in that field. This choice must be made by the end of the Middle year. A student may take his major in any of the departments of the School of Religion. He may also take his major in English Bible. To major in that field, he must complete in addition to the required work in the Departments of Old Testament and New Testament six semester hours in the Department of Old Testament and six semester hours in the Department of New Testament, exclusive of language.

DISTRIBUTION OF COURSES BY YEARS

Junior Year

Old Testament	6 s.h.
New Testament	6 s.h.
Church History	6 s.h.
The remaining twelve semester hours shall be chosen from the remaining required courses in the Departments of Practical Theology, Religious Education, History of Religion and Missions, but not more than six semester hours shall be taken in one department. Students desiring courses in Greek and Hebrew may secure a suitable rearrangement of the distribution of courses by years on approval of the Registration Committee.	12 s.h.
	30 s.h.

Middle Year

Christian Doctrine	6 s.h.
Homiletics	6 s.h.
Philosophy of Religion and Christian Ethics	3 s.h.
After completing all other required courses, the remainder of the work of this year is elective, but not more than twelve semester hours shall be taken in one department.	15 s.h.
	30 s.h.

SENIOR YEAR

In the Senior year the student must fulfill all general requirements not completed in the Junior and Middle years. The remainder of the work is elective. 30 s.h.

TABLE OF REQUIRED COURSES

OLD TESTAMENT

203-204.	Introduction to the Old Testament	6 s.h.

NEW TESTAMENT

213-214.	The Beginnings of Christianity	6 s.h.

CHRISTIAN DOCTRINE

321.	Introduction to Theology, *and*	3 s.h.
322.	Introduction to the History of Christian Thought	3 s.h.

CHURCH HISTORY

233.	Church History to the Reformation	3 s.h.
234.	The History of the Evangelical Movement	3 s.h.

HOMILETICS

SR341-342.	Theory and Practice of Preaching	6 s.h.

PRACTICAL THEOLOGY

351.	Church Administration	3 s.h.

RELIGIOUS EDUCATION

262.	The Educational Work of the Church	3 s.h.

PHILOSOPHY OF RELIGION AND CHRISTIAN ETHICS

291.	Christian Ethics	3 s.h.

HISTORY OF RELIGION AND MISSIONS

281.	Living Religions of the World	3 s.h.
SR282.	Missionary Promotion	3 s.h.

COURSES OF INSTRUCTION*

OLD TESTAMENT

201-202. **First Hebrew.**—The principles and structure of the Hebrew language with translation of selected Old Testament narratives. M.W.F. at 11:30. **6 s.h.** ASSOCIATE PROFESSOR STINESPRING

203-204. **Introduction to the Old Testament.**—The origin, literary forms, and contents of the books of the Old Testament in their geographical and historical setting. M.W.F. at 8:00 and 9:10 (first semester). **6 s.h.**
PROFESSOR RUSSELL AND ASSOCIATE PROFESSOR STINESPRING

301. **Old Testament Theology.**—The religious and ethical teachings of the books of the Old Testament in their historical development. Prerequisite: Old Testament 203-204. T.Th.S. at 10:20. **3 s.h.** PROFESSOR RUSSELL

302. **The Exegesis of Selected Books of the Old Testament.**—A study of the Wisdom Literature with special emphasis on the Book of Job. Based on the English text. Prerequisite: Old Testament 203-204. T.Th.S. at 10:20. **3 s.h.** ASSOCIATE PROFESSOR STINESPRING
[Not offered in 1940-41]

304. **Aramaic.**—A study of the Aramaic portions of the Old Testament, and selected passages from the Targums, Midrashes, and Talmuds. Hours to be arranged. **3 s.h.** ASSOCIATE PROFESSOR STINESPRING
[Not offered in 1940-41]

305-306. **Elementary Arabic.**—No prerequisite, but one year of Hebrew recommended as preparation. **6 s.h.** ASSOCIATE PROFESSOR STINESPRING
[Not offered in 1940-41]

307-308. **Second Hebrew.**—Samuel or Kings the first semester and Isaiah the second. M.W.F. at 2:00. **6 s.h.** ASSOCIATE PROFESSOR STINESPRING

309. **History of the Ancient Near East.**—A survey of the early civilizations of Egypt, Palestine, Syria, and Mesopotamia in the light of Biblical archaeology. T.Th.S. at 11:30. **3 s.h.** ASSOCIATE PROFESSOR STINESPRING

310. **Old Testament Prophecy.**—A study of the social teachings of the Old Testament with special reference to the prophets of the eighth century B.C. T.Th.S. at 10:20. **3 s.h.** ASSOCIATE PROFESSOR STINESPRING

401-402. **Thesis Seminar.**—For students majoring in the Department of Old Testament. Hours to be arranged. (Upon the satisfactory completion of the thesis the student receives six semester hours' credit for the thesis.)
DEPARTMENTAL STAFF

NEW TESTAMENT

SR211-212. **Hellenistic Greek.**—A course for students who wish to begin the study of New Testament Greek. T.Th.S. at 8:00. **6 s.h.**, provided the student takes six semester hours in New Testament Greek the following year. ASSISTANT PROFESSOR CLARK

* On recommendation of the professor in charge of the major field, courses offered in the Graduate School of Arts and Sciences, other than those approved for credit in the School of Religion, may be approved for credit in individual cases, provided no equivalent course is offered in the School of Religion; each case to be decided on its merits.

213-214. The Beginnings of Christianity.—A survey course dealing with the background, the beginnings, and the early history of Christianity. Special attention is given to the creation of the literature of the New Testament. M.W.F. at 8:00 and 9:10 (second semester). **6 s.h.**
PROFESSOR BRANSCOMB AND ASSISTANT PROFESSOR CLARK

217. The New Testament in Greek.—Considerable portions of the Greek text of the New Testament will be read and the principles of Hellenistic Greek studied. Prerequisite: six semester hours' study of the Greek language. T.Th.S. at 9:10. **3 s.h.** PROFESSOR BRANSCOMB

218. Galatians and I Corinthians.—A detailed study of two of Paul's major epistles. The course will be based on the Greek text. Prerequisite: New Testament 217 or its equivalent. T.Th.S. at 9:10. **3 s.h.**
[Not offered in 1940-41] ASSISTANT PROFESSOR CLARK

219. Life of Paul.—A study of Paul's life on the basis of Acts and the letters of Paul, emphasizing the permanent values in Paul's work and his contribution to the world. T.Th.S. at 11:30. **3 s.h.** PROFESSOR MYERS
[Not offered in 1940-41]

220. I Peter and the Gospel of John.—A detailed study of two of the non-Pauline writings of the New Testament. The course will be based on the Greek text. Prerequisite: New Testament 217 or its equivalent. T.Th.S. at 9:10. **3 s.h.** ASSISTANT PROFESSOR CLARK

311. The Life and Teachings of Jesus.—Prerequisite: New Testament 213-214. M.W.F. at 10:20. **3 s.h.** PROFESSOR BRANSCOMB

312. New Testament Theology.—The religious teachings of the books of the New Testament. Prerequisite: New Testament 213-214. M.W.F. at 10:20. **3 s.h.** PROFESSOR RUSSELL

314. Exegesis of Selected Books of the New Testament.—The books studied will be Romans, James, First John. The study will be based on the English text. Prerequisite: New Testament 213-214. T.Th.S. at 11:30. **3 s.h.**
ASSISTANT PROFESSOR CLARK

315. Hellenistic Religions at the Beginning of the Christian Era.—Prerequisite: New Testament 213-214. T.Th.S. at 10:20. **3 s.h.**
ASSISTANT PROFESSOR CLARK

316. Judaism at the Beginning of the Christian Era.—A study of Judaism from the time of Ben Sirach to the writing of the Mishna. Prerequisite: New Testament 213-214. T.Th.S. at 10:20. **3 s.h.** PROFESSOR BRANSCOMB

318. Text of New Testament.—A study of the materials for the reconstruction of the text, the principles of textual criticism, and the history of the text. Practical exercises in the use of manuscripts and facsimiles will be given. Prerequisite: New Testament 213-214 and a reading knowledge of Greek. T.Th.S. at 10:20. **3 s.h.** ASSISTANT PROFESSOR CLARK

411-412. Thesis Seminar.—The materials and methods for the investigation of New Testament problems, with individual research done under the direction of the members of the Department. Admission by special permission. (Upon the satisfactory completion of the thesis the student receives six semester hours' credit for the thesis.) DEPARTMENTAL STAFF

CHRISTIAN DOCTRINE

221. **Platonism and Christianity.**—An analysis of Plato's religious philosophy and a survey of its continuing influence in Hellenistic and Christian thought. Prerequisite: six semester hours in philosophy or its equivalent (Christian Doctrine 321). T.Th. 2:00-3:30. **3 s.h.**
Assistant Professor Outler

222. **Theology and Philosophy in the Nineteenth Century.**—A study of Protestant thought from Schleiermacher to Troeltsch, with special attention to the reciprocal relations between theology and metaphysics. Prerequisite: six semester hours in philosophy or its equivalent (Christian Doctrine 321). T.Th. 2:00-3:30. **3 s.h.** Assistant Professor Outler

321. **Introduction to Theology.**—An examination of types of theological method and an indication of some of the results obtained through a resort to observation and experience in theological investigation. M.W.F. at 8:00. **3 s.h.**
Professor Rowe

322. **Introduction to the History of Christian Thought.**—A rapid survey of the main problems, thinkers, and epochs in the theological development of Christianity from its beginnings to the end of the nineteenth century. M.W.F. at 8:00. **3 s.h.** Assistant Professor Outler

323. **The Christian Conception of the Church.**—A historical survey of the ways in which the Christian tradition has interpreted the idea of the church, followed by a critical analysis of the theological implications of such contemporary problems as church and state, church and culture, and the ecumenical movement. Prerequisite: Christian Doctrine 321. M.W.F. at 11:30. **3 s.h.** Assistant Professor Outler

324. **The Content of Christian Doctrine.**—A comprehensive survey of the doctrines of Christianity as presented systematically in the works of some recent theologians. Prerequisite: Christian Doctrine 321. M.W.F. at 11:30. **3 s.h.** Professor Rowe

325. **Soteriology.**—A study of the Christian doctrine of salvation and a comparison of the various ways by which the saving power of God is understood to take effect in personal and social life. Prerequisite: Christian Doctrine 321. T.Th.S. at 11:30. **3 s.h.** Professor Rowe
[Not offered in 1940-41]

326. **Eschatology.**—A study of "the last things" in the light of the Christian hope for the individual and for society with special consideration of the Christian doctrine of immortality. Prerequisite: Christian Doctrine 321. T.Th.S. at 11:30. **3 s.h.** Professor Rowe
[Not offered in 1940-41]

327. **Arminian Theology.**—A study of Arminianism in the religious thought of England and America with special reference to the system of doctrine contained in the theological writings and doctrinal standards of Methodism. Prerequisite: Christian Doctrine 321. T.Th.S. at 11:30. **3 s.h.**
Professor Rowe

328. **Current Theology.**—A survey of the fields of current theology with special attention given to the most significant and influential movements of reconstruction and reaction in contemporary Christianity. Prerequisite: Christian Doctrine 321. T.Th.S. at 11:30. **3 s.h.** Professor Rowe

329. **Seminar in Historical Theology.**—Selected problems in the history of Christian thought, with special reference to the relation between theology and philosophy. **2 s.h.** Assistant Professor Outler

421-422. Thesis Seminar.—A seminar in thesis guidance. For students majoring in the Department of Christian Doctrine. Hours to be arranged. (Upon the satisfactory completion of the thesis the student receives six semester hours' credit for the thesis.) DEPARTMENTAL STAFF

CHURCH HISTORY

233. Church History to the Reformation.—A survey of the growth of the Christian Church from the Apostolic Age to the Reformation. M.W.F. at 10:20. 3 s.h. ASSISTANT PROFESSOR PETRY

234. History of the Evangelical Movement.—Beginning with the Lutheran Reformation, this course traces the rise, growth, influence, and history to 1800 of the Calvinistic, Anglican, Reformed, Quaker, Baptist, and Methodist movements. M.W.F. at 10:20. 3 s.h. PROFESSOR GARBER

331. The Social Message of the Early and Medieval Church.—A study of the social teachings of the Christian Church prior to the Protestant Reformation, stressing the contributions of Christianity to social progress. Prerequisite: Church History 233-234. T.Th.S. at 8:00. 3 s.h.
ASSISTANT PROFESSOR PETRY

332. The Medieval Church.—Outstanding characteristics of the Medieval Church, emphasizing theory, polity, institutions, sacraments, and worship. Prerequisite: Church History 233-234. T.Th.S. at 8:00. 3 s.h.
ASSISTANT PROFESSOR PETRY

333. The Church in Europe since 1800.—Emphasis is placed on the relation of the church to the social, economic, and political life of modern Europe. Prerequisite: Church History 233-234. T.Th.S. at 10:20. 3 s.h.
[Not offered in 1940-41] PROFESSOR GARBER

334. A History of Christian Renunciation in the Middle Ages.—A study of the renunciatory ideal and of spiritual practices with special reference to Benedictines, Franciscans, Lowland mystics, and leading seculars. Prerequisite: Church History 233-234. M.W.F. at 11:30. 3 s.h.
[Not offered in 1940-41] ASSISTANT PROFESSOR PETRY

335-336. The Church in America.—The church as a factor in the social, economic, and political life of America. Prerequisite: Church History 233-234. T.Th.S. at 10:20. 6 s.h. PROFESSOR GARBER

337. Religion in the Southern States since the Civil War.—A study of the religious life of the Southern people since 1865. Prerequisite: Church History 233-234. 3 s.h. PROFESSOR GARBER
[Not offered in 1940-41]

338. Methodism.—A study of the beginnings and growth of the Methodist societies in England, of early Methodism in America, and of the development of the several branches of the Methodist Church in America. Prerequisite: Church History 233-234. M.W.F. at 11:30. 3 s.h. PROFESSOR GARBER

431. Modern Religious Leaders.—A study of outstanding individuals who have influenced the thought and program of the modern church. The life, work, and contributions of about twenty representative Christian leaders. Prerequisite: Church History 233-234. M.W.F. at 10:20. 3 s.h.
PROFESSOR GARBER

432. Religious Leaders of the Early and Medieval Church.—Among those to be studied are Justin Martyr, Origen, Cyprian, Athanasius, Jerome, Augustine, Benedict of Nursia, Gregory VII, Abelard, Innocent III, Francis of Assisi, Thomas Aquinas, and John Wyclif. Prerequisite: Church History 233-234. M.W.F. at 10:20. 3 s.h. ASSISTANT PROFESSOR PETRY

437-438. Thesis Seminar.—Principles and practice of research. (Upon the satisfactory completion of the thesis the student receives six semester hours' credit for the thesis.) T. at 2:00. Departmental Staff

HOMILETICS

SR341-342. Theory and Practice of Preaching.—Investigation of practical problems in preaching to determine causes of success and failure. Practice preaching. T.Th.S. at 9:10. **6 s.h.** Professors Hickman, Myers, and Rowe

346. Doctrinal Preaching.—An inductive study of the doctrinal emphasis in preaching, with particular attention to abiding doctrinal truths in an age of changing intellectual and social perspectives. T.Th.S. at 8:00. **3 s.h.**
[Not offered in 1940-41] Professor Hickman

347. History of Preaching.—A study of significant periods and their representative preachers, to determine their value for modern preaching. M.W.F. at 11:30. **3 s.h.** Professor Myers
[Not offered in 1940-41]

348. Materials of Preaching.—A critical evaluation of selected portions of the Bible and of some non-Biblical materials for constructive modern preaching. M.W.F. at 11:30. **3 s.h.** Professor Myers
[Not offered in 1940-41]

343. Pastoral Psychology.—Identical with Psychology of Religion 373. T.Th.S. at 8:00. **3 s.h.** Professor Hickman
[Not offered in 1940-41]

344. Psychology of Preaching.—Identical with Psychology of Religion 374. T.Th.S. at 8:00. **3 s.h.** Professor Hickman
[Not offered in 1940-41]

PRACTICAL THEOLOGY

351. Church Administration.—The minister's qualifications for church administration; the minister's service in managing the church organization and supervising the program. T.Th.S. at 11:30. **3 s.h.** Professor Ormond

352. The Rural Church and the Community.—A study of rural conditions with special emphasis upon the church as a community institution. M.W.F. at 11:30. **3 s.h.** Professor Ormond
[Not offered in 1940-41]

354. Public Worship and Ordinances of the Church.—The principles and practice of public worship; attention to the use of the ritual in the church. M.W.F. at 11:30. **3 s.h.** Professor Ormond

SR358a. Church Music.—A study of hymnology, song leading, and problems of the modern church choir. M.W. at 11:30. **2 s.h.** Mr. Barnes

SR358b. Church Architecture.—A study of the best types of church architecture for attractiveness and effective service in open country and towns. F. at 11:30. **1 s.h.** Mr. Haines

SR453-454. Practicum on Rural Church Work.—(a) Using actual experiences of students in rural churches for studies in ministerial efficiency. (b) Emphasis upon the minister's character and personality as essentials to successful leadership. W. at 2:00 p.m. Professor Ormond
[Required of all students holding appointments on the Duke Endowment. No academic credit.]

*220. **Rural Sociology.**—Identical with Sociology 220. M.W.F. at 8:00. 3 s.h. ASSISTANT PROFESSOR THOMPSON

373. **Pastoral Psychology.**—Identical with Psychology of Religion 373. T.Th.S. at 8:00. 3 s.h. PROFESSOR HICKMAN
[Not offered in 1940-41]

459. **Introduction to Psychiatry.—Th. at 1:30. 1 s.h.
ASSOCIATE PROFESSOR CRISPELL

RELIGIOUS EDUCATION

262. **The Educational Work of the Church.**—A consideration of the total task of the church from an educational viewpoint. Attention will be given to such fundamental aspects as principles and objectives of the educative process, curriculum, supervision, worship and leadership education and guidance. T.Th.S. at 8:00. 3 s.h. PROFESSOR SPENCE

263. **Curriculum of Religious Education.**—Educational conceptions of the curriculum; values and uses of current curricula; principles and technics of curriculum construction. T.Th.S. at 8:00. 3 s.h. PROFESSOR SPENCE
[Not offered in 1940-41]

264. **Foundations of Religious Education.**—A study of the fundamental conceptions underlying the theory of Christian education, including social, psychological, and theological aspects. T.Th.S. at 11:30. 3 s.h.
PROFESSOR SMITH

SR265. **Religious Drama.**—A study of the uses and underlying principles of religious drama, followed by a critical examination of selected dramatic productions. M.W.F. at 9:10. 3 s.h. PROFESSOR SPENCE

266. **Educational Aspects of Worship.**—A study of worship in its bearing upon the educational function of the Christian religion. Students admitted on consultation. T.Th.S. at 11:30. 3 s.h. PROFESSOR SMITH

267. **Technic of Teaching Religion.**—Objectives and principles of the teaching process, including a discussion of the major types of educational procedure. T.Th.S. at 8:00. 3 s.h. PROFESSOR SPENCE

SR268. **Drama Construction and Production.**—The course will deal with the use of drama in religious education with special reference to the church and church school. It is contemplated that there will be practice in teaching through dramatics, in actually creating dramatic programs of worship, and in the writing and producing of drama. M.W.F. at 9:10. 3 s.h.
PROFESSOR SPENCE

366. **Seminar in Philosophy of Religious Education.**—A critical study of the basic concepts and theories underlying religious education. Prerequisite: Religious Education 262 or its equivalent. T. at 3:30. 2 s.h.
[Not offered in 1940-41] PROFESSOR SMITH

393-394. **Religious Thought in the Rise of American Culture.**—Identical with Philosophy of Religion and Christian Ethics 393-394. T.Th.S. at 9:10. 6 s.h. PROFESSOR SMITH

461-462. **Thesis Seminar.**—A seminar in thesis guidance. For students majoring in the Department of Religious Education. Hours to be arranged. (Upon the satisfactory completion of the thesis the student receives six semester hours' credit for the thesis.) PROFESSOR SPENCE

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* Course offered in the Graduate School of Arts and Sciences which is credited toward the degree of Bachelor of Divinity.

** Course offered in the School of Medicine which is credited toward the degree of Bachelor of Divinity.

PSYCHOLOGY OF RELIGION

275. **Psychology of Religion I.**—An analysis of the major factors in religious experience. T.Th.S. at 8:00. 3 s.h. Professor Hickman

276. **Psychology of Religion II.**—A study of the genesis and growth of religious experience. T.Th.S. at 8:00. 3 s.h. Professor Hickman

373. **Pastoral Psychology.**—Study of basic psychological and psychiatric principles bearing upon cases necessarily dealt with in pastoral work. T.Th.S. at 8:00. 3 s.h. Professor Hickman
[Not offered in 1940-41]

374. **Psychology of Preaching.**—A psychological study of the preaching motive, the relation of the preacher to his congregation, and the relation of the preacher to society in general. T.Th.S. at 8:00. 3 s.h.
[Not offered in 1940-41] Professor Hickman

375-376. **Seminar in Mysticism.**—An analytical study and evaluation of mystical phases of Christianity. Prerequisite: Psychology of Religion 275 or its equivalent. Th. 3:30-5:30. 4 s.h. Professor Hickman

377-378. **Seminar: Theories of Self.**—Bearing of psychological theories of self upon religious theory. For advanced students in philosophy, psychology, or psychology of religion. T. 3:30-5:30. 4 s.h. Professor Hickman

471-472. **Thesis Guidance.**—(Upon the satisfactory completion of the thesis the student receives six semester hours' credit for the thesis.)
Professor Hickman

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*206. **Social Psychology.**—Open to students in School of Religion on consent of instructor. M.W.F. at 10:20. 2 s.h. Associate Professor Adams

*219. **History of Psychology.**—Open to students in the School of Religion on consent of instructor. 2 s.h. Professor ————

*223. **Abnormal Psychology.**—Open to students in School of Religion on consent of instructor. T.Th.S. at 10:20. 3 s.h. Professor Lundholm

*228. **Psychology of Belief.**—Open to students in School of Religion on consent of instructor. T.Th. at 10:20. 2 s.h. Professor Lundholm
[Not offered in 1940-41]

PHILOSOPHY OF RELIGION AND CHRISTIAN ETHICS

291. **Christian Ethics.**—An historical and systematic study of Christian conceptions of the moral life and its problems. T.Th.S. at 11:30. 3 s.h.
Professor Smith

293. **The Christian Religion and Modern Thought.**—A consideration of certain conspicuous features in the thought of our times as they bear upon the Christian faith and the problems of the religious man. W.F. at 2:00-3:15. 3 s.h.
Acting Professor Dubs

294. **The Christian Religion and Values.**—The problem of the meaning of human life as discussed in modern theories of values. The Christian conception of values and their relative emphases as contrasted with some contemporary opposing views. W.F. at 2:00-3:15. 3 s.h.
Acting Professor Dubs

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* Courses offered in the Graduate School of Arts and Sciences which are credited toward the degree of Bachelor of Divinity.

295. Philosophical Foundations of Religious Belief I.—The nature of religion, its types and their characteristics as bearing upon contemporary Christianity. T.Th. at 2:15-3:30. **3 s.h.** ACTING PROFESSOR DUBS

296. Philosophical Foundations of Religious Belief II.—The problems of knowledge and value; the values of religion; the ideal religion; an attempt to formulate a tenable theistic philosophy. T.Th. at 2:15-3:30. **3 s.h.** ACTING PROFESSOR DUBS

393-394. Religious Thought in the Rise of American Culture.—A survey of the main developments in American religious thought in relation to the growth of civilization and culture. T.Th.S. at 9:10. **6 s.h.** PROFESSOR SMITH

397. Seminar in American Religious Thought.—Selected problems, chiefly of the nineteenth century. T. at 3:30. **2 s.h.** PROFESSOR SMITH

398. Seminar in Christian Ethics.—A critical study of selected problems. T. at 3:30. **2 s.h.** PROFESSOR SMITH

***203. The Philosophy of Conduct.**—A critical study of the fundamental problems of ethics. T.Th.S. at 11:30. **3 s.h.** ASSOCIATE PROFESSOR MORGAN

***209. Philosophy of Religion I: Philosophical Introduction.**—Religion viewed with the standpoint of consideration of deity. T.Th. at 2:15-3:30. **3 s.h.** PROFESSOR WIDGERY
[Not offered in 1940-41]

***210. Philosophy of Religion II: Philosophical Introduction.**—Religion viewed from the standpoint of the nature of man, his origin and destiny. T.Th. at 2:15-3:30. **3 s.h.** PROFESSOR WIDGERY
[Not offered in 1940-41]

***226. The History of Ethics.**—Theories of morality from Socrates to the present time. **3 s.h.** ASSOCIATE PROFESSOR MORGAN

SOCIOLOGY

At least five semester hours of undergraduate sociology are prerequisite to all courses of the Department, except SR202 and 234. Sociology SR202 is designed especially for students whose undergraduate training in sociology has been inadequate. Such students who wish to pursue further work in the Department are advised to enroll in course SR202 as an elective as soon as possible after matriculation in the School of Religion.

SR202. Sociology and Religion.—The bearing of sociology upon religious problems and religious work. M.W.F. at 2:00. **3 s.h.** PROFESSOR JENSEN
[Not offered in 1940-41]

231. General Anthropology.—A study of the evolution of man and of human culture. The prehistoric human types; modern races; the evolution of tools, technology, family life, political institutions, art and language. M.W.F. at 10:20. **3 s.h.** PROFESSOR HART
[Not offered in 1940-41]

232. Cultural Anthropology.—A study of the processes of cultural change. The emergence of magic, religion, morals and science; invention and diffusion; the dynamics of social change; the role and methods of the social innovator. M.W.F. at 10:20. **3 s.h.** PROFESSOR HART
[Not offered in 1940-41]

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* Courses offered in the Graduate School of Arts and Sciences which are credited toward the degree of Bachelor of Divinity.

233. **The World Crisis in the Light of Social Anthropology.**—Present world issues in the light of the trends of human culture and of the dynamic processes through which men may take part in determining the future of civilization. M.W.F. at 9:10. **3 s.h.** PROFESSOR HART

234. **Social Ethics.**—An attempt to develop answers to such questions as: How can potential leaders discover and acquire the skills required for rendering their fullest service to their fellow men—particularly capacities for creative co-operation and insight? On what intellectually and scientifically sound basis can one formulate the fundamental policies of one's life? On what ultimate criteria are social policies to be based? M.W.F. 10:20. **3 s.h.**
PROFESSOR HART

242. **Marriage and the Family.**—A survey of the problems connected with the institutions of marriage and the family in our civilization. M. at 3:20-5:10. **2 s.h.** PROFESSOR HART
[Not offered in 1940-41]

317. **Seminar in Anthropology.**—A seminar for advanced students who wish to pursue individual studies in racial or cultural anthropology. Only students who have satisfactorily completed courses 231 and 232 (or their equivalents) will be admitted. M.W. at 3:45-5:00. **3 s.h.**
PROFESSOR HART

318. **Religion and the World Crisis.**—An inquiry into the bearings of religion upon past social evolution and upon the possible future development of civilization. M.W. at 3:45-5:00. **3 s.h.** PROFESSOR HART

421-422. **Thesis Seminar.**—A seminar in thesis guidance for students majoring in sociology. Hours to be arranged. (Upon the satisfactory completion of the thesis the student receives six semester hours' credit for the thesis. PROFESSOR HART

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*205. **Social Pathology.**—A study of the causes, extent, significance, and constructive treatment of the principal forms of pathology in modern society: poverty, physical defectiveness, malnutrition, mental deficiency, mental disease, undirected leisure activities, and unstandardized commercial recreation, alcoholism, prostitution, vagrancy, and delinquency. T.Th.S. at 8:00. **3 s.h.**
[Offered in second semester, 1940-41] PROFESSOR JENSEN

*206. **Criminology.**—A study of the original tendencies of man and the problem of socializing these tendencies; the relations of physical and mental defectiveness and untoward influences in the home and neighborhood to crime; the development of criminological theory and procedure, emphasizing penal and reform methods, and especially modern methods of social treatment and prevention of crime. T.Th.S. at 8:00. **3 s.h.** PROFESSOR JENSEN

*212. **Child Welfare.**—A study of heredity and environment as factors in personality development: infant conservation; welfare responsibilities of the school, emphasizing the physical and mental well-being of the child, play, compulsory and industrial education; child labor, diagnosis and treatment of delinquency; care of the dependent and neglected child; child-caring agencies, public and private; and a community program of child welfare. **3 s.h.** PROFESSOR JENSEN
[Not offered in 1940-41]

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* Courses offered in the Graduate School of Arts and Sciences which are credited toward the degree of Bachelor of Divinity.

*219. **Urban Sociology.**—This course studies the function of the city in the larger community which it nucleates both as market and as industrial center. More detailed attention, however, is given to the inner life and problems of the city. T.Th.S. at 9:10. 3 s.h. ASSISTANT PROFESSOR THOMPSON

*220. **Rural Sociology.**—A study of the societies developed by people who settle the land and exploit it for a livelihood. The institutions peculiarly rural are the family farm, the peasant village, the ranch, and the plantation. In this course special attention is given to the plantation and the rural problems of the South. M.W.F. at 8:00. 3 s.h.
ASSISTANT PROFESSOR THOMPSON

*319. **Principles of Sociology.**—A critical study of sociological theory. The sociological theories of recent writers will be critically examined with a view to laying the foundation for a constructive theory of the social life in modern biology and psychology. T.Th.S. at 11:30. 3 s.h.
PROFESSOR ELLWOOD

*320. **History of Social Philosophy.**—Lectures on the development of social thought from Aristotle to the present; the social philosophies of Plato, Aristotle, St. Augustine, Thomas Aquinas, Machiavelli, Bodin, Hobbes, Locke, Vico, Montesquieu, Rousseau, Condorcet, and the sociological systems of Comte, Spencer, Shaeffle, Lilienfeldt, Gumplowicz, Ratzenhofer, and Ward, will, among others, be considered. T.Th.S. at 10:30. 3 s.h.
PROFESSOR JENSEN

HISTORY OF RELIGION AND MISSIONS

281. **Living Religions of the World.**—A survey of the religious systems of India, China, and Japan, followed by a study of Judaism, Mohammedanism, and Christianity, the object being to trace the historical development of each religion. T.Th.S. at 10:20. 3 s.h. PROFESSOR CANNON

SR282. **Missionary Promotion.**—The history and promotion of the missionary enterprise at the home base and abroad. T.Th.S. at 10:20. 3 s.h.
PROFESSOR CANNON

284. **Comparative Religion.**—The ideas of God, sin, salvation, the future life, and ethics in the religions of the world. Prerequisite: 281. M.W.F. at 9:10. 3 s.h. PROFESSOR CANNON
[Not offered in 1940-41]

285. **The Religions of the Far East.**—A study of the religious systems of China, Korea, and Japan. T.Th.S. at 11:30. 3 s.h. ACTING PROFESSOR DUBS
[Offered in second semester, 1940-41]

286. **The Religions of India.**—A study of present-day religious movements in India, with special reference to Hinduism. T.Th.S. at 9:10. 3 s.h.
[Not offered in 1940-41] PROFESSOR CANNON

287. **Mohammedanism.**—The life of Mohammed and the religion of Islam, special attention being given to the Koran and its teachings. The aim is to interpret Mohammedanism as a force today. Prerequisite: 281. M.W.F. at 9:10. 3 s.h. PROFESSOR CANNON

289. **Buddhism.**—India at the rise of Buddhism. Life of the Buddha and the teachings of early Buddhism. Development into the Hinayana and Mahayana schools, its spread and present condition in southern and eastern Asia. Prerequisite: 281. M.W.F. at 9:10. 3 s.h. PROFESSOR CANNON
[Not offered in 1940-41]

* Courses offered in the Graduate School of Arts and Sciences which are credited toward the degree of Bachelor of Divinity.

481-482. Thesis Seminar.—Problems of research in History of Religion and Missions. Open to advanced students on approval of the instructor. Prerequisite: six semester hours in the department. Hours to be arranged. (Upon the satisfactory completion of the thesis the student receives six semester hours' credit for the thesis.) Professor Cannon

COURSES ON THE MIDDLE AND FAR EAST

In addition to the courses offered in the Department of History of Religion and Missions of the School of Religion, attention is directed to the following courses in various departments of Duke University dealing with Middle and Far Eastern civilizations.

History of the United States' Foreign Policy.—6 s.h. History 215-216. Associate Professor Clyde

Eastern Asia and the Pacific.—6 s.h. History 241-242. Associate Professor Clyde

Political Institutions of the Far East.—A study of the governmental systems of Japan, Korea, and China from the Chow Dynasty to the present. **3 s.h.** Political Science 211. Associate Professor Linebarger

International Politics of the Far East.—A study of changing power relationships in the Orient since the arrival of the Europeans. **3 s.h.** Political Science 212. Associate Professor Linebarger

Chinese Philosophy.—3 s.h. Philosophy 236. Acting Professor Dubs

Indian Philosophy.—3 s.h. Philosophy 238. Professor Widgery

GENERAL INFORMATION

FEES

Tuition is remitted to students matriculated in the School of Religion, for which they are expected to render from time to time service which shall not interfere with their work in the School of Religion.

Each student is assessed per semester as follows:

Matriculation Fee	$25.00
Library Fee	5.00
Athletic Fee	5.00
Publication Fee (optional)	2.50
Hospital Fee	5.00
Damage Fee	1.00

Each student is assessed, in the last semester before a degree is conferred, a Commencement Fee of $3.00 and a Diploma Fee of $5.00. The latter fee is refunded if the diploma is not awarded.

LATE REGISTRATION

Students matriculating in either semester at a date later than that prescribed in the catalogue shall pay to the Treasurer of the University a penalty of $5.00.

ROOMS

All rooms in the dormitories are provided with heat, water, and electric light. Each student furnishes his own blankets, sheets, pillow-slips, towels, and pillows. Students must furnish their own electric lamps, which can be purchased from the University Store.

Rooms for a given year may be engaged at the office of the Director in the Business Division at any time before May 15 of the preceding year. Every student who wishes to retain his room for the succeeding year must notify the office of the Director in the Business Division on or before May 15. All rooms which have not been signed for on or before May 15 will be considered vacant for the succeeding year. A reservation is cancelled, and the University is free to rent the room to other students, unless a deposit of $25 for each proposed occupant, in part payment of the rent, is made by August 1. Further information concerning the rental of rooms can be secured from the Registrar of the School of Religion.

BOARDING HALLS

The University dining hall in the University Union has accommodations for all the resident men students. It is the policy of the University to furnish board to the students at actual cost. Board may be secured at the Union for an amount not to exceed $25 per month. The Union

is the logical center of student activities, and all male students are advised to board in its supervised halls.

STUDENT AID

Scholarships are available for students, the terms of which may be ascertained by correspondence with the Registrar of the School of Religion. Aid is also given in securing positions in churches. Students who need financial help may be assured that the administration will do all in its power to give the necessary assistance.

N. EDWARD EDGERTON SCHOLARSHIP FUND

In 1939 Mr. N. Edward Edgerton, of Raleigh, North Carolina, an alumnus of Duke University of 1921 and president of the Duke University Alumni Association, established the N. Edward Edgerton Scholarship Fund in the School of Religion. The purpose of the Edgerton Fund as specified by the donor is a "scholarship or scholarships to be awarded only to students who are candidates for the B.D. degree in the School of Religion."

THE LIBRARY

The School of Religion has its own library, conveniently housed in the School of Religion Building. The Library, which contains materials dealing with the subject of religion, already numbers nearly thirty thousand volumes. It has been carefully selected and is the equivalent in working efficiency of many libraries which are much larger. It is already rich in complete files of the more important journals and periodicals, in sets containing source materials for the study of the history of religion and missions, in facsimiles of the more important manuscripts of the New Testament, and in source materials in the field of American church history. The Library is being rapidly expanded. One of the outstanding possessions of the Library is a magnificent Greek manuscript of the thirteenth or fourteenth centuries containing the entire text of the New Testament.

Besides this special library, students of the School of Religion have the use of the General Library of the University, the Library of the School of Law, and the Library of the School of Medicine. All these libraries are located near the School of Religion Building.

MASTER OF ARTS AND DOCTOR OF PHILOSOPHY DEGREES IN RELIGION

The Bachelor of Divinity degree is the only degree conferred by the School of Religion. There is, however, a very close relationship between the School of Religion and the Graduate School of Arts and Sciences, which confers the degrees of Master of Arts and Doctor of Philosophy. Students desiring additional graduate study beyond the degree of Bachelor of Divinity should correspond with the Dean of the Graduate School of Arts and Sciences.

FACILITIES FOR ADVANCED STUDY IN THE AMERICAN SCHOOLS OF ORIENTAL RESEARCH

The School of Religion of Duke University is one of the supporting members of the American Schools of Oriental Research. This grants to students in the School of Religion the privilege of attending the American School in Jerusalem or the one in Bagdad without charge for tuition. They are also able to compete for the financial aids that are offered annually by the Schools. These consist of four fellowships, the stipends depending upon available funds.

RELIGIOUS LIFE

The students of the School of Religion are expected to attend the regular University Chapel services which are held on Tuesday, Wednesday, and Friday of each week. Special chapel services for the School of Religion are held each Monday and Thursday.

In this, as in other features of the University life, the students of the School of Religion are urged to identify themselves with the life of the whole student group.

DATE OF REGISTRATION

Classwork in the School of Religion for the academic session of 1940-41 will begin on Monday, September 23, 1940. The registration of students in the School of Religion will be held on Saturday, September 21, 1940.

ADDITIONAL INFORMATION

Requests for information not contained in this bulletin should be addressed to the Registrar of the School of Religion, Duke University, Durham, North Carolina.

JUNALUSKA SCHOOL OF RELIGION

[AFFILIATED WITH DUKE UNIVERSITY]

LAKE JUNALUSKA, N. C.

JULY 15-AUGUST 24, 1940

INSTRUCTORS

PAUL NEFF GARBER
A.B., Bridgewater College; A.M., Ph.D., University of Pennsylvania
Director and Professor of Church History
DUKE UNIVERSITY

ELMER TALMAGE CLARK
A.B., Birmingham-Southern College; A.M., George Peabody College; B.D., S.T.D., Temple University
Professor of Missions
ASSISTANT SECRETARY, BOARD OF MISSIONS, THE METHODIST CHURCH

ALBERT COOK OUTLER
A.B., Wofford College; B.D., Emory University; Ph.D., Yale University
Professor of Historical Theology
DUKE UNIVERSITY

ELBERT RUSSELL
A.B., A.M., Earlham College; Ph.D., University of Chicago
Professor of Biblical Interpretation
DUKE UNIVERSITY

JAMES VOORHEES THOMPSON
A.B., Wesleyan University; B.D., Drew Theological Seminary; Ph.D., Northwestern University
Professor of Religious Education
DREW THEOLOGICAL SEMINARY

JOINT COMMITTEE ON JUNALUSKA SCHOOL OF RELIGION

REPRESENTING DUKE UNIVERSITY
William Preston Few — Paul Neff Garber

REPRESENTING BOARD OF CHRISTIAN EDUCATION
William Fletcher Quillian — John Quincy Schisler

REPRESENTING BOARD OF MISSIONS
William Gliden Cram — Elmer Talmage Clark

THE JUNALUSKA SCHOOL OF RELIGION

[AFFILIATED WITH DUKE UNIVERSITY]

The Junaluska School of Religion is a joint enterprise under the direction of Duke University, the Board of Christian Education and the Board of Missions of the Methodist Church. It was established in 1928 to provide an opportunity during the summer months for religious workers and students to secure at the seat of one of the church-wide assemblies courses of study which could be credited on undergraduate and graduate degrees.

During the past twelve years students have been enrolled from the following groups: pastors, employed officers of Annual Conference Boards; officers of General Boards of the Church; professors of religious education and Bible in church-related colleges and universities; persons accredited as instructors in training schools; individuals desiring courses which would count on the Bachelor of Arts degree; graduate and theological students desiring courses to be credited on the Bachelor of Divinity degree.

The Junaluska School of Religion offers an unusual opportunity to pastors and directors of religious education who desire courses in line with the work they are doing, which will keep them abreast of the currents of thought in the religious world of today, and which will at the same time give them credit on college, university, and seminary degrees.

RELATION TO SCHOOL OF RELIGION OF DUKE UNIVERSITY

Academic matters relating to the Junaluska School of Religion are in charge of the Faculty of the School of Religion of Duke University. The Junaluska School of Religion includes one summer term of the School of Religion of Duke University. Three members of the Faculty of the School of Religion serve on the Instructional Staff of the Junaluska School of Religion.

CREDITS

All courses meet five times a week for eighty-minute periods. Each course satisfactorily completed will receive a credit of three semester hours. Two such courses may be taken by each student.

The credits secured for work done will be Duke University credits and will count on the Bachelor of Arts and Bachelor of Divinity degrees. These credits may, of course, be transferred to other colleges, universities, and theological schools in the same way that such transfer of credit is usually made. The credits will also be accepted on teachers' certificates.

CALENDAR AND REGISTRATION

The thirteenth session of the Junaluska School of Religion will be held from July 15 to August 24, 1940. Recitations will be held five days

in the week, all Saturdays except July 27 and August 24 being holidays. Monday, August 12, will be observed as Duke Day at Lake Junaluska.

Monday, July 15, is reserved for registration of students. Advanced registration may also be made through correspondence with the director. Regular classes will meet at 8:15 Tuesday morning, July 16. Registration will be held in the Educational Building, as will also all the class sessions.

The Educational Building is located on the western side of Lake Junaluska. The location near the lake provides students with an opportunity to do serious study in the midst of beautiful and inspiring surroundings.

ADMISSION

All candidates for credit toward graduate and theological degrees must be graduates of colleges of recognized standing. College undergraduates who have completed the Junior year and who are ranked as incoming Seniors may also register for the courses and their credits will count toward the degree of Bachelor of Arts. A limited number of Juniors can enroll for credit in the courses, but not more than three Juniors are permitted in any one course.

FEES AND EXPENSES

A general matriculation fee of $10.00 is due at time of registration and a special fee of $5.00 in each course for which the student registers. There is also a $2.00 ground fee which is paid to the Lake Junaluska Assembly, Inc. The only other expenses will be those in connection with room and board. There is a fee of $5.00 for auditors who desire only to audit the courses but without credit for the courses.

HOTELS AND BOARDING HOUSES

There are a large number of hotels and lodging places at Lake Junaluska. The proprietors offer special rates to Junaluska School of Religion students. The rates vary with the accommodations desired.

The Board of Christian Education conducts a cafeteria and has dormitories in connection with the Educational Building for the convenience of students in the Junaluska School of Religion and in the Leadership Schools. Students desiring entertainment in these buildings should make reservation by writing to Mr. W. E. Hogan, Treasurer, Board of Christian Education, 810 Broadway, Nashville, Tennessee.

The Board of Missions operates the Mission Inn at Lake Junaluska. It is operated on the American Plan and can accommodate approximately two hundred persons. The Mission Inn offers all the accommodations found in modern resort hotels. It is equipped with elevator service. Because of the limited space in the Mission Inn all students planning to be guests should make early reservations. Until June 1 correspondence concerning rates and reservations should be addressed to Mr. J. F. Rawls, Doctors Building, Nashville, Tennessee, and after that date to the Mission Inn, Lake Junaluska, North Carolina.

In addition to the dormitories of the Board of Christian Education and the Mission Inn there are other hotels and lodging places at Lake Junaluska. There are also available for rent during the summer season many desirable private cottages within a few minutes walk of the Educational Building. These cottages are furnished with water and lights and are equipped for light housekeeping. A trailer camp is also available.

For detailed information as to rates and other particulars concerning the hotels, boarding houses, furnished cottages, and trailer camp, write Dr. W. A. Lambeth, President, Lake Junaluska Assembly, Inc., Lake Junaluska. The Director of the Junaluska School of Religion will also be glad to assist all students in the selection of living accommodations while at Lake Junaluska.

COURSES OF INSTRUCTION

(*Note.* In the description of courses the following abbreviations occur: *Period A* means that the course comes the first eighty minutes daily, beginning at 8:15; *Period B* means that the course comes at the eighty-minute period beginning at 9:45; *Period C* means that the course meets an eighty-minute period daily, beginning at 11:15. All courses carry three semester hours' credit.)

S201. Old Testament Theology.—The religious and ethical teachings of the books of the Old Testament in their historical development. *Period B.*
PROFESSOR RUSSELL

S211. The Life and Teachings of Jesus.—Using the Synoptic Gospels as a basis, the teachings of Jesus on religious, ethical, and social subjects will be studied in an effort to understand his thought and his message to our day. *Period C.* PROFESSOR RUSSELL

S224. Christian Thought since the Reformation.—The history of Christian thought from the beginning of the Reformation to 1900. *Period B.*
PROFESSOR OUTLER

S228. Current Theology.—A survey of the field of contemporary theology with special attention given to the most significant and influential movements of reconstruction and reaction in liberal Christianity. *Period C.*
PROFESSOR OUTLER

S235. Modern Religious Leaders.—A study of outstanding individuals who have influenced the thought and program of the modern church. The life, work and contributions of about twenty representative Christian leaders. *Period A.* PROFESSOR GARBER

S238. Methodism.—A study of the beginnings and growth of the Methodist societies in England, of early Methodism in America and of the development of the several branches of the Methodist Church in America. *Period C.*
PROFESSOR GARBER

S267. Making the Local Church Effective Today.—An effort will be made to discuss the various factors related to making the local church vital in the affairs of the community. A critical appraisal of the main functions of the modern local church. *Period A.* PROFESSOR THOMPSON

S281. Missions in the Modern World.—A survey of present religious conditions and the status of missionary work in the important mission fields; the great missionary agencies, their foundation and growth; social progress in home and foreign fields. *Period B.* PROFESSOR CLARK

S286. Missionary Promotion.—The promotion of the missionary enterprise at the home base and abroad. *Period A.* PROFESSOR CLARK

Address applications or requests for information to

PAUL N. GARBER

Director of Junaluska School of Religion

DUKE UNIVERSITY

Durham, North Carolina

CANDIDATES FOR THE DEGREE OF BACHELOR OF DIVINITY

JUNIOR CLASS

Andrews, Joseph Russell A.B., Wofford College, 1939.	Lake Toxaway, N. C.
Bromley, Ernest Raymond B.S., Boston University, 1939.	Brookline, Mass.
Caldwell, Joseph Edmund A.B., Lenoir-Rhyne College, 1939.	Hickory, N. C.
Carruth, Paul B.S., Millsaps College, 1939.	McComb, Miss.
Cooke, Ross Alton A.B., Birmingham-Southern College, 1938.	Maben, Ala.
Culp, William B. A. A.B., American University, 1939.	Gold Hill, N. C.
Dollar, Melvin A.B., Elon College, 1939.	Malone, Ala.
Francis, William Clive A.B., Wake Forest College, 1936.	Creedmoor, N. C.
Lindsey, Jordan Allen, Jr. A.B., Millsaps College, 1933.	Pelahatchie, Miss.
Mackay, Donald Mason A.B., Emory University, 1938.	Atlanta, Ga.
Mooney, Robert Cleveland, Jr. A.B., Birmingham-Southern College, 1939.	Wilsonville, Ala.
Moore, Jack Warren A.B., Olivet College, 1934.	Bennettsville, S. C.
Moorman, Julian Pierce, Jr. A.B., Emory and Henry College, 1939.	Bristol, Va.
Patten, Brooks A.B., University of North Carolina, 1939.	Louisburg, N. C.
Powell, John James A.B., Lenoir-Rhyne College, 1939.	Hickory, N. C.
Rogers, James Edwin A.B., Atlantic Christian College, 1939.	Rose Hill, N. C.
Scott, LeRoy Alexander A.B., Duke, 1939.	Kannapolis, N. C.
Shannon, Charles Eugene A.B., Duke, 1939.	Monroe, N. C.
Sherk, Warren Arthur A.B., Allegheny College, 1938.	Hornell, N. Y.
Stone, Joseph Lesley A.B., William and Mary College, 1939.	Williamsburg, Va.
Strickland, Thomas Edward A.B., High Point College, 1939.	High Point, N. C.
Tyte, Wilbur Henry A.B., University of Texas, 1933; A.M., University of Texas, 1939.	San Antonio, Tex.
Vaughan, Robert Akers A.B., Centenary College, 1937.	San Antonio, Tex.
Wheeler, Kermit A.B., Atlantic Christian College, 1939.	Kinston, N. C.
Wilkinson, Howard Charles A.B., Southwestern University, 1939.	Katy, Tex.
Williams, Denny DuBose A.B., Duke, 1939.	Alexandria, Va.

MIDDLE CLASS

Arthur, Charles Ralph — Richmond, Va.
B.S., University of Richmond, 1938.

Autry, John Duncan Asbury — Godwin, N. C.
A.B., Duke, 1929;
A.M., Duke, 1937.

Baker, Homer Ortho — Wake Forest, N. C.
A.B., Wake Forest College, 1936.

Blackburn, Linwood Earl — Fayetteville, N. C.
A.B., Duke, 1938.

Boddie, Wyatt David — Gibsland, La.
A.B., Centenary College, 1937.

Boone, Sidney Grant — Gates, N. C.
A.B., Duke, 1934.

Booth, Luther Lambuth — New Orleans, La.
A.B., Tulane, 1938.

Brabham, Angus McKay, Jr. — Bamberg, S. C.
A.B., University of South Carolina, 1937.

Branch, Douglas McKinley — Cary, N. C.
A.B., Wake Forest College, 1937.

Bridewell, Joseph Albert — Columbia, Miss.
A.B., Millsaps College, 1938.

Brock, Edwin Lawrence — New Orleans, La.
A.B., Tulane, 1938.

Conley, George Frederick — Marion, N. C.
A.B., Wofford College, 1938.

Cooke, Jack — Minden, La.
A.B., Centenary College, 1938.

Crumpton, Sidney Randolph — Sumter, S. C.
A.B., Wofford College, 1932.

Davis, Willie Dixon — Mullins, S. C.
A.B., University of South Carolina, 1939.

Dawson, Dana — Shreveport, La.
A.B., Centenary College, 1938.

Duncan, Floyd Alexander — Lincolnton, N. C.
A.B., Wofford College, 1938.

Everett, Thomas D., Jr. — Fairview, Ky.
A.B., Kentucky Wesleyan College, 1938.

Freeman, William Lawrence — Greensboro, N. C.
A.B., Asbury College, 1937.

Galloway, Benedict Atkins — Raleigh, N. C.
A.B., Louisiana State University, 1938.

Glenn, Henry Clarence, III — Eufaula, Ala.
A.B., Duke, 1938.

Gray, Alan DeLeon — Brighton, Ala.
A.B., Birmingham-Southern College, 1938.

Harrell, Haywood Linwood — Rich Square, N. C.
A.B., Duke, 1938.

Heffner, William Frank — Maiden, N. C.
A.B., Wofford College, 1938.

Hendrix, Thomas Christian — Humboldt, Ill.
A.B., DePauw University, 1938.

Inge, John Wesley — Forest, Va.
A.B., Lynchburg College, 1938.

Madren, Silas Ernest — Henderson, N. C.
A.B., Elon College, 1929.

Meacham, Benjamin Franklin — Mt. Gilead, N. C.
A.B., Duke, 1936.

Miller, Irving Roscoe — Salisbury, N. C.
A.B., Catawba College, 1938.

Nesbitt, Marion Wilson — Gastonia, N. C.
A.B., Lenoir-Rhyne College, 1938.

Parker, Carl Lafayette — Ridgeland, S. C.
A.B., Wofford College, 1938.

Pegg, Jabez Paul — Henderson, N. C.
A.B., University of North Carolina, 1926.

Prentis, Edward Walker — Owensboro, Ky.
A.B., Evansville College, 1938.

Rogers, Harry Lee — Stem, N. C.
A.B., Asbury College, 1938.

Rustin, Lee D. — Pacific Palisades, Calif.
A.B., Arizona State Teachers College, 1938.

Stamey, Robert Henry — Lawndale, N. C.
A.B., Duke, 1939.

Stevens, Wyatt Millard — Roanoke, Ala.
A.B., Elon College, 1936.

Teer, Harold Benton — Hall Summit, La.
A.B., Centenary College, 1938.

Thompson, Walter Rowe — Winston-Salem, N. C.
A.B., Duke, 1938.

Waggoner, Brooks Milton — Stilwell, Okla.
A.B., University of Arkansas, 1938.

SENIOR CLASS

Andes, William Jacob — Harrisonburg, Va.
A.B., Elon College, 1935.

Andrews, William Ed — Lake Toxaway, N. C.
A.B., Wofford College, 1937.

Arbaugh, Robert Newton — Paragould, Ark.
A.B., Hendrix College, 1937.

Bagby, Steadman — Calvert City, Ky.
A.B., Lambuth College, 1932.

Barrs, William Kenneth — South Miami, Fla.
A.B., Duke, 1937.

Biggers, Sherrill Bost — Concord, N. C.
B.Ph., Emory, 1937.

Brady, William Herman — Highfalls, N. C.
A.B., Duke, 1937.

Brown, Raymond Odell — High Point, N. C.
A.B., High Point College, 1937.

Bustle, Wade Robert — Statesville, N. C.
A.B., Davidson College, 1937.

Coley, Herman Theophilus — Hillsboro, N. C.
A.B., Wofford College, 1936.

Crutchfield, Finis Alonzo — Vernon, Tex.
A.B., Southern Methodist, 1937.

Dodge, William Wesley — McLean, Va.
A.B., American University, 1937.

Evans, Joseph Claude — Anderson, S. C.
A.B., Wofford College, 1937.

Ferguson, Edward Benjamin — Greenville, N. C.
A.B., University of North Carolina, 1937.

Foley, Lemley Peter — Stuart, Va.
A.B., Berea College, 1937.

Freeman, Ralph Lexie — Cumberland Furnace, Tenn.
B.S., Tennessee Polytechnic Institute, 1937.

Fulton, John William — Winston-Salem, N. C.
A.B., Moravian College, 1937.

Garrison, Robert Edmund — Dillwyn, Va.
A.B., Randolph-Macon College, 1937.

Hickman, Victor Ralph — Springfield, S. C.
A.B., Wofford College, 1935.

Higgins, James Silvester — Highlands, N. C.
A.B., High Point College, 1937.

Hubbard, Charles Spence — Sanford, N. C.
A.B., University of North Carolina, 1936.

Keeler, Waldo Forrest — West End, N. C.
A.B., Marion College, 1932.

Kelley, Marvin Hess — Holly Grove, Ark.
A.B., Hendrix College, 1937.

Kiker, Seaborn Martin — Dallas, Tex.
A.B., Southern Methodist, 1937.

McLeod, Walter Grey — Jackson, Ala.
A.B., Birmingham-Southern College, 1937.

Milstead, Harold Ashton — Chicamuxen, Md.
A.B., St. John's College, 1937.

Nicholson, Ralph Herman — Statesville, N. C.
A.B., Lenoir-Rhyne College, 1937.

O'Neal, Ernest Elijah — Charlottesville, Va.
B.S., University of Mississippi, 1935.

Overton, Ernest Golden — Roxboro, N. C.
A.B., Duke, 1925.

Pittard, Jesse Leo — Roanoke Rapids, N. C.
A.B., High Point College, 1936.

Queen, Virgil Erwin — Morganton, N. C.
A.B., Catawba College, 1937.

Reichard, James Charles — Bynum, N. C.
A.B., Davidson College, 1936.

Richardson, Henry Powell — Narrows, Va.
A.B., Emory and Henry College, 1937.

Shackford, Joseph Temple — Rock Hill, S. C.
A.B., Duke, 1934.

Simpson, Harold Ross — Altoona, Pa.
A.B., Catawba College, 1937.

Smith, Aubert Marlyn — Siler City, N. C.
A.B., High Point College, 1935.

Taylor, Key Wesley — Compton, Calif.
B.R.E., Gordon College, 1936.

Weinland, David Eugene — Bethlehem, Pa.
A.B., Moravian College, 1935.

SPECIAL STUDENTS

Cole, Clarence Alfred — Oxford, N. C.
A.B., Duke, 1933;
B.D., University of the South, 1936.

Higgins, George Gambill — Clemmons, N. C.
A.B., Moravian College, 1931;
B.D., Moravian College, 1934.

Lever, Oscar William — Blythewood, S. C.
A.B., Wofford College, 1925;
M.A., University of South Carolina, 1939.

Showalter, Russell Holmes — Durham, N. C.
A.B., Hampden-Sydney College, 1928;
B.D., Union Theological Seminary, 1931.

Waggoner, John Phillip — Charlotte, N. C.
A.B., Duke, 1935;
B.D., Duke, 1938.

STUDENTS IN JUNALUSKA SCHOOL OF RELIGION

Autry, John Duncan Asbury	Godwin, N. C.
Bromley, Ernest Raymond	Brookline, Mass.
Darst, Lewis Whitefield	Shawsville, Va.
Edwards, Mary Jane	Durham, N. C.
Furness, Thomas Adrian	Canton, N. C.
Goodson, William Alexander, Jr.	Winston-Salem, N. C.
Hickman, Victor Ralph	Springfield, S. C.
Houck, Winton Robert	Spencer, W. Va.
Kendrick, Jack Omer	Ripley, Miss.
Lawson, John Fuller	Erwin, Tenn.
Lineberger, Nancy Jane	Shelby, N. C.
MacDonald, Marian Julia	Johnsonburg, Pa.
McGalliard, James LaFayette	Spear, N. C.
Owen, Robert Erastus	Waynesville, N. C.
Palmer, Frances Seaman	Fairfax, Va.
Price, Edgar Conrad	Clyde, N. C.
Stillwell, Edgar Herman	Cullowhee, N. C.
Wood, Hoyt Hampton	West Jefferson, N. C.

CANDIDATES FOR THE DEGREES OF MASTER OF ARTS AND DOCTOR OF PHILOSOPHY IN THE FIELD OF RELIGION

Bennett, John Boyce — Brevard, N. C.
A.B., Wofford College, 1933;
B.D., Duke, 1936.

Clegg, Mildred Isabel — Brookhaven, Miss.
A.B., Millsaps College, 1938.

Colloms, Lester Hubert — Cleveland, Tenn.
A.B., Emory and Henry College, 1926;
B.D., Emory University, 1931.

Greene, John Thomas — Rougemont, N. C.
A.B., Duke, 1936;
B.D., Duke, 1938.

Hamilton, Thomas Henderson — Roxboro, N. C.
A.B., Davidson College, 1927;
B.D., Union Theological Seminary, 1931;
Th.M., Union Theological Seminary, 1932.

Holder, Ray — Lucedale, Miss.
A.B., University of Mississippi, 1935;
A.M., University of Mississippi, 1936.

Jones, Jameson Miller — Corinth, Miss.
A.B., Southwestern University, 1936;
B.D., Louisville Presbyterian Theological Seminary, 1939.

Lever, Oscar William — Blythewood, S. C.
A.B., Wofford College, 1925;
A.M., University of South Carolina, 1939.

Macrae, John Howard — Hopkinsville, Ky.
A.B., King College, 1927;
B.D., Union Theological Seminary, 1934.

Neel, Samuel Regester, Jr. — Cumberland, Md.
A.B., Emory and Henry College, 1935.

Neelands, Charles Wesley — Chatsworth, Ontario
A.B., Queen's University, 1937;
B.D., Queen's Theological College, 1938.

Whitehead, Talton Johnson — Henderson, N. C.
A.B., High Point College, 1930.

Yelanjian, Louis Justine — Birmingham, Ala.
A.B., Birmingham-Southern College, 1937;
B.D., Union Theological Seminary, 1926.