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THE UNIVERSITY OF NORTH CAROLINA

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Announcements for the Session 1946-1947

STATE COLLEGE STATION
RALEIGH

Educational Opportunities For Veterans

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INTRODUCTION.—The educational opportunities offered to the personnel of the military forces of the United States during and following the present war provide the greatest program of education ever planned by any nation. Never before have so many individuals beyond high-school age been given the privilege of securing training in any field they desire, with little or no expense and with compensation to pay all or nearly all of their personal living expenses. No matter what job, trade, or profession a serviceman may have been engaged in prior to the war, he will have a good chance to improve his knowledge and skills in that field or some other occupation.

Every serviceman should consider, carefully and seriously, how he can use this opportunity to the best advantage. Many should not enter college, but nearly everyone will find some opportunity for self-improvement through additional organized training.

The information given regarding educational advantages for veterans has been gathered from a study of the laws, from interpretations made by the Veterans Bureau, and from other reliable sources. The information has been prepared in question-answer style to be of most help to servicemen. This information may be used as a guide, but each veteran should procure definite information concerning his status from the Veterans Administration.

Brief information is also given concerning the college program for returning servicemen, and certain suggestions are offered regarding educational training while in military service for those planning to enter college.

We trust that this material will be helpful to servicemen and women in taking advantage of their educational opportunities. We will be glad to forward a copy of Form 1950 or answer any specific inquiry. For a copy of the Application Form 1950 or for further information write

W. L. MAYER, Director of Registration
North Carolina State College
Raleigh, North Carolina

Federal Assistance

TWO TYPES OF EDUCATIONAL ASSISTANCE.—On March 24, 1943, the 78th Congress approved a bill providing for the education or retraining of servicemen (or women) who are discharged with a service-incurred disability. This law is commonly referred to as P. L. 16.

Veterans eligible for assistance under this law are those who meet the four following requirements.

1. The person must have been in the active military or naval service any time after September 16, 1940, and during the present war;
2. He or she has been discharged or released from the active service under conditions other than dishonorable;
3. He or she must have a disability incurred in or aggravated by such service for which pension is payable under law administered by the Veterans Administration, or would be but for the receipt of retirement pay; and
4. He or she must be in need of vocational rehabilitation to overcome the handicap of such disability.

The filing of application for Pension, Veterans Administration, Form 526, will initiate a determination as to the presence or absence of a pensionable disability producing a vocational handicap. Any veteran discharged because of service-connected disability should first determine whether he is eligible for training under this act. The advantages under this act are usually more liberal, and more careful direction and supervision are given to veterans under this act.

The Servicemen's Readjustment Act of 1944 (Public Law 346), commonly referred to as the "G. I. Bill of Rights," and hereafter referred to in this bulletin as P. L. 346, contains the educational provisions for veterans not eligible for aid under P. L. 16. *The information which follows pertains only to P. L. 346 unless otherwise noted.*

Who Is Eligible?—Any veteran of the Armed Forces (including Waves, Wacs, Spars, et al.) who served on or after September 16, 1940, who was in service at least ninety days, and whose dismissal was other than dishonorable is eligible for educational training.

What Kind of Education Can Be Procured?—The veteran may choose any type of education for which schools are organized—High School, Business School, Trade School, College, University, Professional School, or Graduate School. The veteran is free to choose his major field of study.

Where Can This Education Be Procured?—The veteran is free to select the school he desires to attend without reference to the state in which he resides. The school attended must be approved by the Veterans Administration, but this list is secured from the official accrediting agency in each state, and therefore will include all schools normally approved by a state's Educational Accrediting Agency.

How Much Education Can Be Procured?—The maximum time allowed any veteran will be forty-eight months. Each qualified veteran is entitled to twelve months plus as many months as time of active service since September 16, 1940. The time spent in organized college programs such as ASTP and Navy V-12 may be deducted from the total time. Not more than twelve months may be devoted to refresher courses. A veteran will receive additional assistance to complete the term in progress when his allotted time expires.

How Can This Education Be Procured?—The educational training is figured in months and may be taken in any time sequence desired by the veterans and provided by the school—continuous school attendance, normal school attendance (college year), broken attendance, or part-time attendance. Part-time attendance provides for pro rata financial assistance.

When Can a Veteran Begin Training?—A veteran may begin his training immediately after his discharge. He must begin his training within four years after his discharge or the termination of the war, whichever is later. Educational opportunities must be completed within nine years after the termination of the war.

What Compensation Is Received While Attending School?—A veteran receives $65.00 per month, or $90.00 per month if married (or having dependents), during the months he attends school. Payments are not made during long vacation periods, but such periods do not count in the time allowance. This payment is for room, board, and other personal expenses. The Government pays the school for all educational expenses including tuition, fees, books, supplies, etc., not to exceed $500.00 for the college year (September to June). Any excess above the $500.00 must be paid by the veteran unless he elects to reduce his period of training in proportion to the excess amount of educational costs. Pro rata educational costs are allowed for summer school attendance.

How Should a Veteran Apply for Educational Benefits?—Application should be made on Veterans Administration Form 1950 which can be secured from any regional office of the Veterans Administration or from many educational institutions. This form should not be filed until the serviceman has received his discharge from military service.

Disabled veterans should first write a letter to the Veterans Administration, giving full information concerning their previous service connections and requesting educational assistance under P. L. 16. If this is denied, they should then file form 1950.

The veteran will receive a communication (in duplicate) from the office of the Veterans Administration, indicating approval (or disapproval) of his application and stating the number of months of education to which he is entitled. The veteran should retain these letters until a copy is requested by the school. The letter is used in lieu of regular payments of tuition, fees, and other educational costs.

Where Should a Veteran Write?—If a veteran knows the school he will attend, he should write to the Veterans Administration's regional office which has jurisdiction where the school is located. If a school has not been selected, the veteran may apply to the office nearest his home or point of discharge. A list of the Regional Offices will be found elsewhere in this publication.

How Should a Veteran Enroll in School?—A veteran enrolls in exactly the same manner as any other student. A school may have a special organization for veterans and may have special regulations concerning the admission of veterans, but so far as the Veterans Administration is concerned, he applies in a normal manner.

Is a Veteran Given Special Supervision?—Veterans attending school under P. L. 346 are regularly enrolled students subject to the normal rules and regulations of the institution and no special supervision is provided by the Veterans Administration. Individual schools may have special administrative or supervisory regulations to assist veterans in their readjustment to school life.

Veterans attending under P. L. 16 are supervised by an educational officer of the Veterans Administration as well as by the college administration.

When Do Monthly Allotments Begin?—The institution notifies the Veterans Administration of the date the veteran enrolls. Allotments begin as of that date and continue until the institution notifies the Veterans Administration of the withdrawal of the student or the closing of a school session. However, allotments are paid at the close of each month, and some time may elapse in getting allotments started. Therefore, veterans should make personal financial arrangements for room, board, and other personal expenses until allotments are received. Payments for subsistence allowances are based on calendar months and a veteran is paid for the exact period he is in attendance plus regular holidays and leave not exceeding 30 days in a calendar year.

Regional Offices of the Veterans Administration Are Located At

Albuquerque, New Mexico
Atlanta, Georgia
Baltimore, Maryland
Batavia, New York
Bay Pines, Florida
Boise, Idaho
Boston, Massachusetts
Brecksville, Ohio
Cheyenne, Wyoming
Columbia, South Carolina
Dayton, Ohio
Dearborn, Michigan
Denver, Colorado
Des Moines, Iowa
Fargo, North Dakota
Ft. Harrison, Montana
Hines, Illinois
Huntington, West Virginia
Indianapolis, Indiana
Jackson, Mississippi
Jefferson Barracks, Missouri
Kansas City, Missouri
Lexington, Kentucky
Lincoln, Nebraska
Little, Rock, Arkansas
Los Angeles, California
Lyons, New Jersey
Manchester, New Hampshire
Minneapolis, Minnesota
Montgomery, Alabama
Murfreesboro, Tennessee
Muskogee, Oklahoma
Newington, Connecticut
New Orleans, Louisiana
New York, New York
Philadelphia, Pennsylvania
Pittsburgh, Pennsylvania
Portland, Oregon
Providence, Rhode Island
Reno, Nevada
Roanoke, Virginia
Salt Lake City, Utah
San Francisco, California
Seattle, Washington
Sioux Falls, South Dakota
Togus, Maine
Tucson, Arizona
Waco, Texas
Washington, D. C.
White River Junction, Vermont
Wichita, Kansas
Winston-Salem, North Carolina
Wood, Wisconsin

College Program For Veterans

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Scope of Training Available.—The North Carolina State College of Agriculture and Engineering of the University of North Carolina is the State's technological institution giving instruction in Agriculture and Forestry, Engineering, Vocational Teacher Training, and Textiles. Detailed information concerning the majors in these general fields is given in the regular college publications, which will be furnished on request. All qualified veterans are eligible to enroll in any major offered by the college.

In addition, the college will permit a veteran to enroll as a special student to take such specialized work as may be arranged between the student and the Dean of the School. Special students are not granted degrees.

Admission and Guidance. All veterans will apply for admission and have their credentials approved in the same manner as other students. Special guidance assistance will be available whenever needed.

Special Admission.—In addition to the admission of veterans in the customary manner, the North Carolina College Conference with the approval of the State Department of Public Instruction has approved the admission of veterans at any college in the state under the regular procedure governing the admission of mature students. Under this provision a veteran not qualified for admission based on high school graduation may be admitted through special examinations.

Refresher Courses.—Realizing that veterans who had been in college prior to military service would, in most cases, need to spend some time in review before beginning advanced work, the government has provided a maximum of twelve months of refresher work under Public Law 346.

The facilities of the college will not permit us to accept veterans in need of preparatory refresher work, except those needing only high school algebra and plane geometry. Veterans should contact junior college and city school systems regarding special refresher courses sponsored and approved by the Veterans Administration.

Credit for Military Service.—It is not the policy of colleges to allow credit for military service in lieu of regular academic courses. At this institution the credits required for graduation include thirty-six term credits which may be earned in military science and physical education. The college will allow this amount of credit toward graduation

to any veteran who has been in active military service as much as one year. Whenever this maximum is allowed, no credits previously or thereafter earned in military science or physical education can be used toward fulfilling graduation requirements. The War Department has ruled that any veteran desiring to compete for a reserve commission under the organized college ROTC program may substitute six months of military training for the freshman basic course and six additional months for the sophomore basic course. Thus, a veteran in service as much as one year is eligible to compete for advanced ROTC which, if completed in a satisfactory manner, will entitle the individual to a commission in the Army Reserve. Veterans who have been in service as much as six months are excused from all requirements in Physical Education and Military Science and receive the normal credit allowance toward graduation.

Credits for Service Courses of Instruction.—The American Council on Education, with the cooperation and support of most of the national educational organizations, has selected a national committee to evaluate and make recommendations concerning credit for the various types of instruction provided by the Armed Forces. This institution will be guided by the recommendations made by this committee.

The allowance of credit indicated in the preceding section usually does not permit the acceptance of much Service School credit unless it is usuable as a substitute for a required course in the student's major field.

Miscellaneous Items of Information

Rooms and Apartments.—Until some action is taken to increase the space for student housing the college will not be able to provide rooms for all students properly qualified for admission. Therefore the acceptance of a student for admission does not mean that the college can provide living quarters.

The college is endeavoring to secure some temporary housing for married students. The housing situation in the city is very acute and no student should bring his family to Raleigh until he has secured living accommodations.

Education Costs.—The $500 allowed by the Veterans Administration is sufficient for all items chargeable as educational expense: tuition, fees, books and supplies. (It is sufficient to pay the etxra out-of-state tuition charge.) The $65.00 (or $90.00) per month subsistence allowance is for room, board, and other personal expenses.

Veterans Administration Form 1950.—It is required that Veterans Administration Form 1950 be filed in the office of one of the Regional Offices of the Veterans Administration before a student is eligible to receive benefits under Public Law 346 (G. I. Bill of Rights). However, when this Form has been filed he may enter school even though he has not received his certificate of eligibility. It is suggested that a Veteran forward his Form 1950 to the Veterans Administration by registered mail, requesting a return registry delivery card. The Veteran then has proof that his application has been properly received and filed with the Veterans Administration.

Any wounded Veteran should not file Form 1950 until his status under Public Law 16 (Rehabilitation) has been established. No Veteran can enter school under P. L. 16 until his case has been finally acted upon and the institution properly notified by the Veterans Administration.

Entrance Examinations.—Veterans who cannot satisfy the regular entrance requirements are entitled to qualify by examination. Such Veterans are urged, however, to take some refresher work before entering college unless they have had very good training in mathmatics and English.

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A.B., LL.D., Trinity College; LL.D., University of North Carolina; Litt.D., Davidson College.

MARTIN ABRAHAM ABRAHAMSEN, *Professor of Agricultural Economics.*
B.E., River Falls State Teachers College; M.A., Ph.D., University of Wisconsin.

WILLIAM ELTON ADAMS, *Assistant Professor of Mechanical Engineering.*
B.S., Ohio University.

DONALD BENTON ANDERSON, *Professor of Botany.*
B.A., B.Sc. in Ed., M.A., Ph.D., Ohio State University.

RICHARD LEE ANDERSON, *Assistant Professor of Experimental Statistics and Agricultural Economics.*
A.B., DePauw University; M.S., Ph.D., Iowa State College.

LINDSEY OTIS ARMSTRONG, *Associate Professor of Education.*
B.S., M.S., N. C. State College.

LEONARD JAMES ARRINGTON, *Instructor in Economics.*
B.A., University of Idaho.

WILLARD FARRINGTON BABCOCK, *Assistant Professor of Civil Engineering.*
S.B., S.M., Massachusetts Institute of Technology.

STANLEY THOMAS BALLENGER, *Associate Professor of Modern Languages.*
A.B., M.A., University of North Carolina.

LUTHER WESLEY BARNHARDT, *Associate Professor of History and Political Science.*
B.A., Trinity College; M.A., University of Wisconsin.

GRADY WILTON BARTLETT, *Assistant Professor of Physics.*
B.S., M.S., N. C. State College.

WILLIAM LUDWIG BAUMGARTEN, *Assistant Professor of Architecture.*
A.A., Imperial Academy of Fine Arts of Vienna, Austria.

LEONARD DAVID BAVER, *Director, Agricultural Experiment Station; Dean, School of Agriculture.*
B.S., M.S., Ohio State University; Ph.D., University of Missouri.

THOMAS NELSON BLUMER, *Assistant Professor of Animal Industry.*
B.S., Pennsylvania State College.

JOHN FRANCIS BOGDAN, *Professor of Textiles and Applied Research Technologist.*
B.T.E., Lowell Textile Institute.

EDWARD WILLIAM BOSHART, *Professor of Education (Industrial Arts and Vocational Guidance).*
B.S., M.A., Columbia University.

CAREY HOYT BOSTIAN, *Professor of Zoology; Assistant Director of Instruction, School of Agriculture.*
A.B., Catawba College; M.S., Ph.D., University of Pittsburgh.

DANIEL ELLSWORTH BRADY, *Associate Professor of Animal Industry.*
B.S., Ph.D., University of Minnesota.

CHARLES RAYMOND BRAMER, *Associate Professor of Structural Engineering.*
B.S., E.M., Michigan College of Mining and Technology.

CORNELIUS GODFREY BRENNECKE, *Professor of Electrical Engineering.*
A.B., B.S., E.E., Columbia University; Ph.D., New York University.

WILLIAM STALEY BRIDGES, *Associate Professor of Mechanical Engineering.*
B.E., M.S., N. C. State College.

HERMON BURKE BRIGGS, *Professor of Engineering Drawing and Descriptive Geometry.*
B.E., M.E., N. C. State College.

RICHARD BRIGHT, *Assistant Professor of Chemical Engineering.*
B.S., M.S., State University of Iowa.

BENJAMIN FRANKLIN BROWN, *Dean of the Basic Division.*
B.S., Northwestern University.

EDMOND JOSEPH BROWN, *Assistant Professor of Physics.*
B.S., M.S., N. C. State College.

ROBERT RODERICK BROWN, *Professor of Electrical Engineering.*
B.S. in E.E., University of Texas; M.S. in E.E., Massachusetts Institute of Technology

THEODORE CECIL BROWN, *Associate Professor of Mechanical Engineering.*
B.S. in M.E., M.E., University of Kentucky; M.S., N. C. State College.

THOMAS EVERETTE BROWNE, *Director of the Division of Teacher Education.*
A.B., Wake Forest College; M.A., Columbia University.

WILLIAM HAND BROWNE, JR., *Professor of Electrical Engineering.*
A.B., P.A.E., B.E., Extra Ordinem, Johns Hopkins University.

MURRAY FIFE BUELL, *Assistant Professor of Botany.*
A.B., Cornell University; M.A., Ph.D., University of Minnesota.

ROBERTS COZART BULLOCK, *Associate Professor of Mathematics.*
A.B., M.A., University of North Carolina; Ph.D., University of Chicago.

LELAND BURKHART, *Assistant Professor of Agronomy.*
B.S., Ohio State University; M.S., University of New Hampshire; Ph.D., University of Chicago.

MALCOLM EUGENE CAMPBELL, *Dean of the School of Textiles.*
B.S., Clemson College.

WILLIAM LESLIE CAMPER, JR., *Instructor in Military Science and Tactics.*
Master Sergeant DEML, U. S. Army.

WILLIAM SUTTON CARLEY, *Assistant Professor of Electrical Engineering.*
B.S., University of Kentucky.

†HUGH LYNN CAVENESS, *Assistant Professor of Chemistry.*
A.B., Trinity College; M.A., Duke University.

JOHN WESLEY CELL, *Associate Professor of Mathematics.*
A.B., M.A., Ph.D., University of Illinois.

JESSE WAYNE CHALFANT, *Associate Professor of Forestry.*
B.S., Pennsylvania State College; M.F., Yale University.

†GEORGE WILLIAM CHARLES, *Instructor in Physics.*
B.A., Ohio State University.

EUGENE BOWEN CHASE, *Assistant Professor of Military Science and Tactics.*
Major, Infantry-Reserve, AUS; Graduate, British Machine Gun School; Graduate, Third Corps School; Graduate, Infantry School, Company Officers Course.

JOSEPH DEADRICK CLARK, *Professor of English.*
B.A., Columbia University; M.A., Harvard University.

JOHN MONTGOMERY CLARKSON, *Professor of Mathematics and Experimental Statistics.*
A.B., Wofford College; A.M., Duke University; Ph.D., Cornell University.

WILLIAM LEANDER CLEVENGER, *Professor of Dairy Manufacturing.*
B.S. in Agriculture, Ohio State University; M.S., N. C. State College.

JAMES KIRK COGGIN, *Professor of Agricultural Education.*
B.S., N. C. State College; M.S., Cornell University.

† On military leave.

JOHN FRANCIS COIRO, *Instructor in Military Science and Tactics.*
First Sergeant, DEML. U. S. Army.

EMERSON R. COLLINS, *Associate Professor of Agronomy.*
B.S., Pennsylvania State College; Ph.D., Iowa State College.

WILLIAM EARLE COLWELL, *Professor of Agronomy.*
B.S., University of Nebraska; M.S., University of Idaho; Ph.D., Cornell University.

RALPH ERNEST COMSTOCK, *Professor of Animal Industry and Experimental Statistics.*
B.S., M.S., Ph.D., University of Minnesota.

NORVAL WHITE CONNER, *Professor of Fluid Mechanics.*
B.S., M.E., Virginia Polytechnic Institute; M.S., Iowa State College.

LEON EMORY COOK, *Professor of Agricultural Education.*
A.B., B.S. in Agriculture, M.S., Cornell University.

HENRY CHARLES COOKE, *Instructor in Mathematics.*
B.S., N. C. State College.

RALPH LELAND COPE, *Assistant Professor of Mechanical Engineering.*
B.S. in M.E., B.S. in Ind. Educ., M. Ed., Pennsylvania State College.

GERTRUDE MARY COX, *Professor of Experimental Statistics, and Director, Institute of Statistics.*
B.S., M.S., Iowa State College.

†GEORGE REDIN CULBERSON, *Assistant Professor of Yarn Manufacturing.*
B.S., M.S., N. C. State College.

RALPH WALDO CUMMINGS, *Professor of Agronomy; Assistant Director, Agricultural Experiment Station.*
B.S., N. C. State College; Ph.D., Ohio State University.

PHILIP HARVEY DAVIS, *Assistant Professor of English.*
A.B., A.M., Miami University.

ROY STYRING DEARSTYNE, *Professor of Poultry Science.*
B.S., University of Maryland; M.S., N. C. State College.

JOHN BEWLEY DERIEUX, *Professor of Theoretical Physics.*
B.S., M.S., University of Tennessee; Ph.D., University of Chicago.

CHARLES GLENN DOAK, *Assistant Professor of Physical Education.*

THOMAS CLARE DOODY, *Professor of Chemical Engineering.*
B.S., M.S., Ph.D., University of California.

JUSTUS CARLYLE DRAKE, *Instructor in English.*
B.A., M.A., Wake Forest College.

GEORGE HEYWARD DUNLAP, *Technologist, School of Textiles.*
B.S., Clemson College.

PRESTON WILLIAM EDSALL, *Associate Professor of History and Political Science.*
B.S., New York University; A.M., Ph.D., Princeton University.

†JOSEPH NEWTON FARLOW, *Instructor in Engineering Mechanics.*
B.C.E., N. C. State College.

CHARLES EDWARD FELTNER, *Assistant Professor of Engineering Mechanics.*
B.S., Virginia Polytechnic Institute; S.M.C.E., University of North Carolina.

HILBERT ADAM FISHER, *Professor of Mathematics.*
M.S., N. C. State College; graduate, United States Naval Academy; graduate, United State Submarine School; LL.D., Lenoir Rhyne College.

†GASTON GRAHAM FORNES, *Assistant Professor of Mechanical Engineering.*
B.S., M.S., N. C. State College.

GARNET WOLSEY FORSTER, *Professor of Agricultural Economics.*
B.S., Cornell University; M.S., Ph.D., University of Wisconsin.

† On military leave.

JOHN ERWIN FOSTER, *Professor of Animal Husbandry.*
B.S., N. C. State College; M.S., Kansas State College; Ph.D., Cornell University.

ALVIN MARCUS FOUNTAIN, *Associate Professor of English.*
B.E., M.S., N. C. State College; M.A., Columbia University; Ph.D., Peabody College.

RAYMOND SPIVEY FOURAKER, *Professor of Electrical Engineering.*
B.S., A. & M. College of Texas; M.S., University of Texas.

BENTLEY BALL FULTON, *Professor of Entomology.*
B.A., Ohio State University; M.S., Chicago University; Ph.D., Iowa State College.

MONROE EVANS GARDNER, *Professor of Horticulture.*
B.S., Virginia Polytechnic Institute.

HERMAN CHRISTIAN GAUGER, *Associate Professor of Poultry Science.*
B.S., Connecticut State College; M.S., N. C. State College.

GEJRGE WALLACE GILES, *Professor of Agricultural Engineering.*
B.S., University of Nebraska; M.S., University of Missouri.

KARL BROWNING GLENN, *Associate Professor of Electrical Engineering.*
B.E., M.S., N. C. State College.

JAMES HENRY GRADY, *Assistant Professor of Architecture.*
B. Arch., Ohio State University.

RICHARD ELLIOTT GREAVES, *Assistant Professor of Poultry Science.*
B.S., Wake Forest College; B.S., N. C. State College.

ARTHUR FREDERICK GREAVES-WALKER, *Professor of Ceramic Engineering.*
Cer.E., Ohio State University; D.Sc., Alfred University.

RALPH WALDO GREEN, *Associate Professor of Marketing.*
B.S., Cornell University; M.S., N. C. State College.

ROBERT EDWARD LEE GREENE, *Associate Professor of Agricultural Economics*
B.S., M.S., North Carolina State College; Ph.D., Cornell University.

†DAVID WOLTER GREGORY, *Instructor in Poultry Science.*
B.S., Kansas State College; M.S., N. C. State College.

WALTON CARLYLE GREGORY, *Assistant Professor of Agronomy.*
B.A., Lynchburg College, M.A., Ph.D., University of Virginia.

ALBERT HARVEY GRIMSHAW, *Professor of Textile Chemistry and Dyeing.*
Graduate of the New Bedford Textile School; B.S., M.S., N. C. State College.

CLAUDE DELBERT GRINNELLS, *Professor of Veterinary Science.*
B.S., M.S., University of Minnesota; D.V.M., Cornell University.

ELLIOT BROWN GROVER, *Professor of Yarn Manufacturing.*
B.S., Massachusetts Institute of Technology.

FREDERICK MORGAN HAIG, *Professor of Animal Husbandry and Dairying.*
B.S., University of Maryland; M.S., N. C. State College.

MRS. RUTH BADGER HALL, *Instructor in Modern Languages.*
A.B., Oberlin College; M.A., University of North Carolina.

‡CHARLES HORACE HAMILTON, *Professor of Rural Sociology.*
B.A., Southern Methodist University; M.S., Texas A. & M. College; Ph.D., University of North Carolina.

REINARD HARKEMA, *Associate Professor of Zoology.*
A.B., Calvin College; Ph.D., Duke University.

THOMAS PERRIN HARRISON, *Dean Emeritus of the College; Editor of Official College Publications.*
B.S., Citadel; Ph.D., Johns Hopkins University; LL.D., Citadel.

THOMAS ROY HART, *Professor of Weaving and Designing.*
B.S., T.E., M.S., N. C. State College.

LODWICK CHARLES HARTLEY, *Professor of English.*
B.A., Furman University; M.A., Columbia University; Ph.D., Princeton University.

† On military leave.
‡ On leave.

ARTHUR COURTNEY HAYES, *Assistant Professor of Textile Chemistry and Dyeing.*
Ph.B., Brown University; M.S., N. C. State College.

CHARLES MCGEE HECK, *Professor of Physics.*
A.B., Wake Forest College; M.A., Columbia University.

DAVID ELDRIDGE HENDERSON, *Assistant Professor of Industrial Engineering.*
B.S., University of North Carolina.

WILLIAM NORWOOD HICKS, *Professor of Ethics and Religion.*
B.E., M.S., N. C. State College; A.B., Duke University; M.A., Oberlin College.

JAMES HAROLD HILTON, *Professor of Animal Industry.*
B.S.A., Iowa State College; M.S., University of Wisconsin; D.Sc., Purdue University.

JOHN THOMAS HILTON, *Professor of Yarn Manufacturing.*
Diploma Bradford Durfee Textile School; B.S., M.S., N. C. State College.

THOMAS IRA HINES, *Assistant Professor of Physical Education.*
B.S., N. C. State College; M.A., University of North Carolina.

LAWRENCE EARLE HINKLE, *Professor of Modern Languages.*
B.A., University of Colorado; M.A., Columbia University; D.S.es L., Dijon University.

ELMER GEORGE HOEFER, *Professor of Mechanical Engineering.*
B.S., M.E., University of Wisconsin.

JULIUS VALENTINE HOFMANN, *Director of the Division of Forestry.*
B.S.F., M.F., Ph.D., University of Minnesota.

ROBERT HOOKE, *Assistant Professor of Mathematics.*
A.B., A.M., University of North Carolina; A.M., Ph.D., Princeton University.

JOHN ISAAC HOPKINS, *Assistant Professor of Physics.*
B.S., A.M., Ph.D., Duke University.

EARL HENRY HOSTETLER, *Professor of Animal Husbandry.*
B.S. in Agr., Kansas State Agricultural College; M.Agr. M.S., N. C. State College.

WILLIAM DOYLE HULL, II, *Instructor in English.*
B.A., Furman University; M.A., Ph.D., University of Virginia.

THOMAS EDWARD HYDE, *Instructor in Mechanical Engineering.*

HERMAN BROOKS JAMES, *Associate Professor of Agricultural Economics.*
B.S., M.S., N. C. State College.

JAMES HERBERT JENSEN, *Professor of Plant Pathology.*
B.S., A.M., University of Nebraska; Ph.D., University of Wisconsin.

‡THEODORE SEDGWICK JOHNSON, *Professor of Sanitary Engineering.*
B.S., M.S., Denison University; C.E., Ohio State University.

WALTER EDWARD JORDAN, *Associate Professor of Chemistry.*
B.S., M.A., Wake Forest College; M.S., N. C. State College.

LEROY MONROE KEEVER, *Associate Professor of Electrical Engineering.*
B.E., M.S., N. C. State College.

HENDERSON GRADY KINCHELOE, *Assistant Professor of English.*
A.B., University of Richmond; A.M., Harvard University.

WILLIAM WURTH KRIEGEL, *Associate Professor of Ceramic Engineering.*
B.S. in Civil and Ceramic Engineering, University of Washington; M.S., Montana School of Mines; Dr.Ing., Technische Hochschule, Hanover, Germany.

†ARTHUR NEWMAN KRUGER, *Instructor in English.*
A.B., University of Alabama; Ph.D., Louisiana State University.

WALTER MICHAEL KULASH, *Assistant Professor of Zoology.*
B.S., M.S., Ph.D., Massachusetts State College.

ARTHUR IRISH LADU, *Professor of English.*
A.B., Syracuse University; M.A., Ph.D., University of North Carolina.

‡ On leave.
† On military leave.

CLAUDE MILTON LAMBE, *Assistant Professor of Civil Engineering.*
B.E., N. C. State College.

JOHN HAROLD LAMPE, *Dean of the School of Engineering.*
B.S., M.S., Dr. Eng., Johns Hopkins University.

FORREST WESLEY LANCASTER, *Associate Professor of Physics.*
B.S. in Ch.E., Purdue University.

†BRYON ELMER LAUER, *Professor of Chemical Engineering.*
B.S., Oregon State College; M.S., Ph.D., University of Minnesota.

MARC CARL LEAGER, *Professor of Statistics and Accounting.*
B.S., M.S., University of Minnesota; Ph.D., Columbia University.

JOHN EMERY LEAR, *Professor of Electrical Engineering.*
B.S., Virginia Polytechnic Institute; E.E., Texas A. & M. College.

WILLIAM DANIEL LEE, *Associate Professor of Agronomy.*
B.S., N. C. State College.

†CHARLES ROMEO LEFORT, *Assistant Dean of Students.*
B.S., N. C. State College.

SAMUEL GEORGE LEHMAN, *Professor of Plant Pathology.*
B.S., Ohio University; M.S., N. C. State College; Ph.D., Washington University.

JOHN ANTHONY LEIPOLD, *Instructor in Military Science and Tactics.*
Master Sergeant, DEML, U. S. Army.

PAUL BONAR LEONARD, *Assistant Professor of Mechanical Engineering.*
B.S., Ohio State University.

JACK LEVINE, *Associate Professor of Mathematics.*
A.B., University of California at Los Angeles; Ph.D., Princeton University.

‡JAMES EADS LEVINGS, *Assistant Professor of Engineering Mechanics.*
A.B., M.S., Harvard College.

JOHN GARY LEWIS, *Associate Professor of Knitting.*
B.S., M.S., N. C. State College.

RICHARD HENRY LOEPPERT, *Assistant Professor of Chemistry.*
B.S., Northwestern University; Ph.D., University of Minnesota.

WALTER LOWEN, *Instructor in Mechanical Engineering.*
B.M.E., N. C. State College.

†ROY LEE LOVVORN, *Professor of Agronomy.*
B.S., Alabama Polytechnic Institute; M.S., University of Missouri; Ph.D., University of Wisconsin.

HENRY LAWRENCE LUCAS, JR., *Associate Professor, Institute of Statistics.*
B.S., University of California; Ph.D., Cornell University.

JOHN ROBERT LUDINGTON, *Professor of Industrial Arts Education.*
B.S., Ball State Teachers College; M.A., Ph.D., Ohio State University.

JAMES FULTON LUTZ, *Professor of Agronomy.*
B.S., N. C. State College; M.A., Ph.D., University of Missouri.

†FRANK HALLAM LYELL, *Assistant Professor of English.*
A.B., University of Virginia; M.A., Columbia University; Ph.D., Princeton University.

JOSEPH THOMAS LYNN, *Assistant Professor of Physics.*
A.B., Vanderbilt University; M.S., Ohio State University.

CARROLL LAMB MANN, *Professor of Civil Engineering.*
B.S., C.E., N. C. State College.

ROGER POWELL MARSHALL, *Professor of English.*
B.A., Wake Forest College; M.A., Columbia University; M.S., N. C. State College.

SELZ CABOT MAYO, *Associate Professor of Rural Sociology.*
A.B., Atlantic Christian College; M.S., N. C. State College; Ph.D., University of North Carolina.

---

† On military leave.
‡ On leave.

FREDERICK HAROLD MCCUTCHEON, *Professor of Zoology.*
B.S., M.S., North Dakota State College; Ph.D., Duke University.

MALCOLM COOK MCMILLAN, *Instructor in History and Political Science.*
A.B., M.A., University of Alabama.

DOUGLASS NEWMAN MCMILLIN, *Professor of Military Science and Tactics.*
Colonel, Infantry, U. S. Army; Graduate, Infantry School, Company Commander's Course.

WILLIAM MCGEHEE, *Professor of Psychology.*
B.A., University of the South; M.A., Ph.D., Peabody College.

‡JEFFERSON SULLIVAN MEARES, *Associate Professor of Physics.*
B.S., University of South Carolina; M.S., N. C. State College.

WALTER GUY MENDENHALL, SR., *Instructor in Mechanical Engineering.*
B.S., N. C. State College.

ZENO PAYNE METCALF, *Professor of Zoology, and Associate Dean of the Graduate School.*
B.A., Ohio State University; D.Sc., Harvard University.

GORDON KENNEDY MIDDLETON, *Professor of Agronomy.*
B.S., N. C. State College; M.S., Ph.D., Cornell University.

EDWIN LAWRENCE MILLER, JR., *Assistant Professor of Geology.*
B.S., E.M., Missouri School of Mines and Metallurgy.

JOHN FLETCHER MILLER, *Professor of Physical Education and Athletics.*
B.Pd., Central Missouri Teachers' College; B.P.E., Springfield College of Physical Education.

WILLIAM DYKSTRA MILLER, *Associate Professor of Forestry.*
B.A., Reed College; M.F., Ph.D., Yale University.

ADOLPHUS MITCHELL, *Associate Professor of Engineering Mechanics.*
B.S., M.S., University of North Carolina.

THEODORE BERTIS MITCHELL, *Professor of Zoology and Entomology.*
B.S., Massachusetts State College; M.S., N. C. State College; D.S., Harvard University.

REUBEN O. MOEN, *Professor of Business Administration.*
B.A., M.A., Ph.D., University of Iowa.

DANNIE JOSEPH MOFFIE, *Assistant Professor of Psychology.*
B.S., M.S., Ph.D., Pennsylvania State College.

ROBERT JAMES MONROE, *Instructor in Experimental Statistics.*
B.S., Iowa State College.

†PERRY EARL MOOSE, *Assistant Professor of Mechanical Engineering.*
B.S., N. C. State College; M.S. in C.E., Purdue University.

JOHN WESLEY MORGAN, *Instructor in Chemistry.*
A.B., A.M., Duke University.

†WILLIAM EDWIN MOSER, *Instructor in Textiles.*
B.S., N. C. State College.

CAREY GARDNER MUMFORD, *Professor of Mathematics.*
B.A., Wake Forest College; A.M., Ph.D., Duke University.

†HOWARD M. NAHIKIAN, *Assistant Professor of Mathematics.*
A.B., M.A., Ph.D., University of North Carolina.

THOMAS LEWIS NASH, *Instructor in Mechanical Engineering.*
Graduate, United States Naval Academy.

‡WILLIAM MCCORMICK NEALE, *Instructor in Mechanical Engineering.*
B.E., M.E., N. C. State College.

THOMAS NELSON, *Dean Emeritus of the School of Textiles.*
D.Sc., N. C. State College.

---

† On military leave.
‡ On leave.

JOHN PAUL NICKELL, *Instructor in English.*
A.B., Morehead (Ky.) State Teachers College; A.M., University of North Carolina.

‡RAY LEONARD OVERCASH, *Instructor in Chemical Engineering.*
B.Ch.E., N. C. State College; M.S., Michigan State College.

EDWIN HUGH PAGET, *Associate Professor of English.*
B.L., Northwestern; M.A., University of Pittsburgh.

ROBERT LEE PALMER, *Instructor in Military Science and Tactics.*
Master Sergeant, DEML, U. S. Army.

HUBERT VERN PARK, *Associate Professor of Mathematics.*
A.B., Lenoir Rhyne College; M.A., Ph.D., University of North Carolina.

†JOHN MASON PARKER, III, *Assistant Professor of Geology.*
A.B., A.M., Ph.D., Cornell University.

*LESLIE RENDALL PARKINSON, *Associate Professor of Aeronautical Engineering.*
B.S., Guggenheim School of Aeronautics, New York University.

JAMES WELCH PATTON, *Professor of History and Political Science.*
A.B., Vanderbilt University; M.A., Ph.D., University of North Carolina.

JEHU DEWITT PAULSON, *Professor of Architecture.*
B.F.A., Yale University.

ROBERT JAMES PEARSALL, *Assistant Professor of Electrical Engineering.*
B.E., N. C. State College.

FREDERICK THOMAS PEIRCE, *Director of Textile Research.*
B.S., D.S., University of Sydney (Australia).

WALTER JOHN PETERSON, *Professor of Animal Nutrition.*
B.S., M.S., Michigan State College; Ph.D., University of Iowa.

JAMES RODNEY PILAND, *Assistant Professor of Agronomy.*
B.S., Wake Forest College; M.S., N. C. State College.

JOSHUA PLUMMER PILLSBURY, *Professor of Landscape Architecture.*
B.S., Pennsylvania State College.

JOSEPH ALEXANDER PORTER, JR., *Assistant Professor of Weaving and Designing.*
B.S., N. C. State College.

GEORGE NEAL PRESTRIDGE, *Instructor in Military Science and Tactics.*
Master Sergeant, DEML, U. S. Army.

*EDMUND WESLEY PRICE, JR., *Instructor in Civil Engineering.*
B.C.E., N. C. State College.

GLENN ORVICE RANDALL, *Associate Professor of Horticulture.*
B.S., University of Arkansas; M.S., Iowa State College.

EDGAR EUGENE RANDOLPH, *Professor of Chemical Engineering.*
A.B., A.M., Ph.D., University of North Carolina.

ROBERT FRANKLIN RAUTENSTRAUCH, *Associate Professor of Aeronautical Engineering.*
B.S., Princeton University; M.S., New York University.

MARL ELLIS RAY, *Instructor in Civil Engineering.*
B.S., N. C. State College.

WILLIS ALTON REID, *Associate Professor of Chemistry.*
B.S., Wake Forest College; Ph.D., Wisconsin University.

ROBERT BARTON RICE, *Professor of Mechanical Engineering.*
B.S., Tufts College; A.M., Columbia University.

‡ On leave.
† On military leave.
* Resigned.

JACKSON ASHCRAFT RIGNEY, *Professor of Experimental Statistics. mental-Statistics.*
B.S., New Mexico State College; M.S., Iowa State College.

HAROLD FRANK ROBINSON, *Assistant Professor of Experimental Statistics.*
B.S., M.S., N. C. State College.

ROBERT HENRY RUFFNER, *Professor of Animal Husbandry and Dairying.*
B.S., University of Maryland; M.S., N. C. State College.

JAMES HARRY RYAN, *Instructor in Chemisrty.*
A.B., Tusculum College; M.S., Massachusetts State College.

GEORGE HOWARD SATTERFIELD, *Professor of Biochemistry.*
A.B., A.M., Duke University; B.S., N. C. State College.

IRA OBED SCHAUB, *Director of Agricultural Extension.*
B.S., N. C. State College; D.Sc., Clemson College.

†ROBERT SCHMIDT, *Associate Professor of Horticulture.*
B.Sc., Rutgers University.

EDWARD MARTIN SCHOENBORN, JR., *Professor of Chemical Engineering.*
B.Ch.E., M.S., Ph.D., Ohio State University.

†HERBERT FREDERICK SCHOOF, *Instructor in Zoology and Entomology.*
B.S., M.S., N. C. State College; Ph.D., University of Illinois.

WAYLAND PRITCHARD SEAGRAVES, *Assistant Professor of Mathematics.*
B.S., M.S., N. C. State College.

LOUIS WALTER SEEGERS, *Assistant Professor of History.*
A.B., Muhlenberg College; A.M., University of Pennsylvania.

JOHN FRANK SEELY, *Asssitant Professor of Chemical Engineering.*
B.S., M.S., N. C. State College.

WALTER EUGENE SELKINGHAUS, *Associate Professor of Mechanical Engineering.*
B.S., Newark College of Engineering; M.M.E., N. C. State College.

†JAMES ATKINS SHACKFORD, *Instructor in English.*
B.A., Emory and Henry College; M.A., Peabody College.

ALFRED BERNARD ROWLAND SHELLEY, *Assistant Professor of English.*
B.S., Tufts College; A.M., Harvard University.

WILLIAM EDWARD SHINN, *Professor in Charge of Knitting Section.*
B.S., M.S., N. C. State College.

MERLE FRANKLIN SHOWALTER, *Associate Professor of Chemistry.*
A.B., Indiana University; M.S., Purdue University.

CLARENCE BONNER SHULENBERGER, *Professor of Accounting.*
A.B., Roanoke College; A.M., Columbia University.

ROSS EDWARD SHUMAKER, *Professor of Architecture.*
B.Arch., Ohio State University; Registered Architect.

IVAN VAUGHAN DETWEILER SHUNK, *Professor of Botany.*
A.B., A.M., University of West Virginia; Ph.D., Rutgers University

GEORGE KELLOGG SLOCUM, *Associate Professor of Forestry.*
B.S., M.S., N. C. State College.

BENJAMIN WARFIELD SMITH, *Associate Professor of Agronomy.*
B.A., M.A., University of Virginia; Ph.D., University of Wisconsin.

CLYDE FUHRIMAN SMITH, *Associate Professor of Entomology.*
B.S., M.S., Utah State Agricultural College; Ph.D., Ohio State University.

GEORGE WALLACE SMITH, *Professor of Engineering Mechanics.*
B.S.E.E., University of North Carolina; M.S.E. in C.E., D.Sc., University of Michigan

‡ On leave.
† On military leave.

JOHN WARREN SMITH, *Professor of Industrial Education.*
B.S., Miami University, Oxford, Ohio; M.S., Columbia University.

†RAYMOND FRANKLIN STAINBACK, *Assistant Professor of Physics.*
S.B., M.S., University of North Carolina.

‡ROSS OLIVER STEVENS, *Professor of Zoology.*
B.S., M.S., University of Michigan.

ROBERT EDWARD STIEMKE, *Associate Professor of Civil Engineering.*
B.S. in C.E., M.S. in C.E., University of Wisconsin.

EDWARD HOYLE STINSON, *Instructor in Mechanical Engineering.*
B.S., N. C. State College.

‡ROBERT LEGRANDE STONE, *Associate Professor of Ceramic Engineering.*
B.S. in Cer.E., Missouri School of Mines and Metallurgy; M.S., N. C. State College.

CHARLES FREDERICK STROBEL, *Assistant Professor of Mathematics.*
A.B., A.M., University of Buffalo; Ph.D., University of Illinois.

ARCHIE DAVID STUART, *Associate Professor of Agronomy.*
B.S., M.S., N. C. State College.

JASPER LEONIDAS STUCKEY, *Professor of Geology.*
A.B., A.M., University of North Carolina; Ph.D., Cornell University.

PAUL PORTER SUTTON, *Assistant Professor of Chemistry.*
Ph.D., Johns Hopkins University.

HORACE CARTER THOMAS, *Instructor in Military Science and Tactics.*
Master Sergeant, DEML, U. S. Army.

†ROBERT WESLEY TRUITT, *Instructor in Aeronautical Engineering.*
A.B., Elon College.

WILLIAM GARDNER VAN NOTE, *Professor of Metallurgy and Assistant Director of the Engineering Experiment Station.*
Ch.E., Rensselaer Polytechnic Institute; M.S., University of Vermont; Ph.D., Pennsylvania State College.

LILLIAN LEE VAUGHAN, *Professor of Mechanical Engineering.*
B.S., N. C. State College; M.E., Columbia University.

HERMAN HUSBAND VESTAL, *Assistant Professor of Military Science and Tactics.*
Major, Infantry-Reserve; B.S., N. C. State College; Graduate, Infantry School, Company Officers Course.

†EDMUND MEREDITH WALLER, *Assistant Professor of Physical Education, and Assistant Coach.*
A.B., Vanderbilt University; M.A., Peabody College.

*ROBERT SULLIVAN WARREN, *Assistant Professor of Physical Education and Head Coach of Basketball.*
D.O., American School of Osteopathy; B.S., N. C. State College; M.A., University of North Carolina.

GEORGE CARSON WATSON, *Instructor in Mathematics.*
A.B., Randolph Macon College; M.A., University of Virginia.

DAVID STATHEM WEAVER, *Professor of Agricultural Engineering.*
B.S., Ohio State University; M.S., N. C. State College.

BERTRAM WHITTIER WELLS, *Professor of Botany.*
A.B., M.A., Ohio State University; Ph.D., University of Chicago.

FRED BARNETT WHEELER, *Professor of Practical Mechanics and Superintendent of Shops.*
B.S., M.E., N. C. State College.

RAYMOND CYRUS WHITE, *Assistant Professor of Chemistry.*
B.S., Davis Elkins College; M.S., Ph.D., West Virginia University.

† On military leave.
* Resigned.

†LARRY ALSTON WHITFORD, *Assistant Professor of Botany.*
B.S., M.S., N. C. State College; Ph.D., Ohio State University.

CHARLES BURGESS WILLIAMS, *Professor Emeritus of Agronomy.*
B.S., M.S., N. C. State College.

CHARLES WILEY WILLIAMS, *Instructor in Mathematics.*
A.B., Harvard University; M.A., University of Maryland.

†FRED CARTER WILLIAMS, *Assistant Professor of Architecture.*
B.S., N. C. State College; B.S., University of Illinois; Registered Architect.

HARVEY PAGE WILLIAMS, *Professor of Mathematics.*
B.A., William and Mary College; M.A., Duke University.

LEON FRANKLIN WILLIAMS, *Professor of Organic Chemistry.*
A.B., A.M., Trinity College; Ph.D., Johns Hopkins University.

NORWOOD WADE WILLIAMS, *Assistant Professor of Poultry Science.*
B.S., M.S., N. C. State College.

ARTHUR JOHN WILSON, *Professor of Analytical Chemistry.*
B.S., M.S., N. C. State College; Ph.D., Cornell University.

THOMAS LESLIE WILSON, *Assistant Professor of English.*
A.B., Catawba College; A.M., Wofford College.

‡MERLE WESLEY WING, *Instructor in Zoology.*
B.S., University of Maine.

EDWIN WEEMS WINKLER, *Assistant Professor of Electrical Engineering.*
S.B., Montana State College; M.S., University of North Carolina.

SANFORD RICHARD WINSTON, *Professor of Sociology.*
A.B., Western Reserve University; Ph.D., University of Minnesota.

†LOWELL SHERIDAN WINTON, *Associate Professor of Mathematics.*
B.S., Grove City College; M.A., Oberlin College; Ph.D., Duke University.

JACOB WOLFOWITZ, *Associate Professor of Experimental Statistics.*
B.S., College of the City of New York; M.A., Columbia University; Ph.D., New York University.

THOMAS WILMONT WOOD, *Associate Professor of Industry and Personnel Management.*
B.S., A.M., University of Alabama; Ph.D., University of North Carolina.

LENTHALL WYMAN, *Professor of Forestry.*
A.B., M.F., Harvard University.

WILLARD KENDALL WYNN, *Assistant Professor of English.*
A.B., Wofford College; M.A., Emory University; M.A., Columbia University.

ROBERT BAKER WYNNE, *Instructor in English.*
A.B., William and Mary.

NELSON PAUL YEARDLEY, *Instructor in Mathematics.*
A.B., M.S., Louisiana State University; M.A., Lehigh University.

HYMAN JOSEPH ZIMMERMAN, *Instructor in Mathematics.*
B.A., Brooklyn College; M.S., Ph.D., University of Chicago.

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† On military leave.
‡On leave.

GENERAL INFORMATION

THE COLLEGE

Establishment. The North Carolina State College of Agriculture and Engineering is one of the Land-Grant Colleges established under the provisions of the Morrill Act, passed by the Congress of the United States, June 2, 1862. The first session of the College was that of 1889-1890. Prior to that date, the funds received by the State under the Land-Grant Act had been used by the University of North Carolina, at Chapel Hill.

The name, The North Carolina College of Agriculture and Mechanic Arts, used in the establishment of the College, was changed by the General Assembly the Legislature of the State—in 1917 to its present form.

In its session of 1931, the General Assembly passed an Act, of which the following is the first section: "That the University of North Carolina, the North Carolina State College of Agriculture and Engineering, and the North Carolina College for Women are hereby consolidated and merged into 'The University of North Carolina'."

This Act placed the three institutions under one Board of Trustees and one President, the separate affairs of each institution being in charge of its own Administrative Dean. The effect of the Act, by correcting unnecessary duplication and focalizing the work of each of its members, has tended to create a strong, unified State University.

Location. State College Campus of one hundred twenty-five acres, lies within the limits of Raleigh, a mile and a quarter west of the State Capitol, on United States Highway, Route 1. Adjoining the Campus westward, occupying four hundred forty-five additional acres, are the College poultry yards, and the Central State Experiment Farms. A mile still farther westward, the College has acquired a tract of thirteen hundred acres, which is maintained as livestock farms by the Department of Animal Husbandry and Dairying. The part of this tract—about 500 acres—not adapted for these farms is being used by the Department of Forestry for demonstrations and development.

Organization.—The organization of State College has as its objectives Campus Teaching, Extension Teaching, and Research.

Campus Teaching occupies the School of Agriculture and Forestry, the School of Engineering, the Division of Teacher Education, the Textile School, the Graduate Division, the Basic Division, and the Summer Session. The Schools and the Basic Division are organized for teaching by Departments. The details of the organization, the equipment, and the work of each School and Department are given under the various headings in the later pages of this Catalog. The work of the Summer Session is set forth in a special issue of STATE COLLEGE RECORD published each year in December, a copy of which is sent on request.

The Department of Military Training, including as the Reserve Officers Training Corps students of all classes in all Schools, is placed immediately under the College Administration.

Extension Teaching is directed under the Division of College Extension. The work is closely coördinated with the work in the regular Departments of the College. In certain short courses, most of them in Agriculture and in Engineering, Extension overlaps with Campus Teaching. The whole State is covered in the activities of the Agricultural Extension Service.

Research is conducted, by individuals or by Departments, very generally at State College. Specially organized work is done through the Agricultural Experiment Station, the Engineering Experiment Station, and the Textile Research Department.

The Campus.—The Campus of State College presents an agreeably rolling terrain with adequate space west and south for expansion. Located on the eastern edge of the Piedmont Region of the State, within twenty-five miles of the Coastal Plain, opportunity is afforded for a pleasing variety of trees and shrubs in the landscaping. Fortunately, in the early years of the College a long-range plan for growth was made. This plan is now being intelligently followed.

Under the sections of the Catalog devoted to Schools and their Departments and to Divisions, are placed descriptions of buildings, laboratories, and facilities of each of these.

General Service Buildings. Holladay Hall, named for Colonel Alexander Quarles Holladay, first President of the College, 1889-1899, contains the general administrative offices of the College, and the offices and classrooms of the Military Department.

The D. H. Hill Library, named for Doctor Daniel Harvey Hill, President of the College, 1908-1916, was dedicated in 1926. It contains now over 62,000 volumes, exclusive of Government documents, and pamphlets.

The Y. M. C. A. building, the erection of which was made possible by a donation from the Rockefeller Foundation, serves the religious and social life of the College.

The Dining Hall, an H-shaped building, with kitchens, storage rooms, pantries, refrigerators, and other mechanical devices in the center and basement, has at each side, front and rear, a spacious dining hall. The service is on the cafeteria plan.

The Frank Thompson Gymnasium, named in honor of Frank Martin Thompson, distinguished athlete, graduate of State College, Class of 1910, killed in service during World War I, is thoroughly equipped and modern in all its appointments.

The Infirmary, recently enlarged and renovated, is a model of a small, special hospital.

Pullen Hall, named in honor of R. Stanhope Pullen, donor of first sixty acres of the College land, has classrooms on the first and basement floors, on the second floor, the College auditorium.

The Power Plant, recently erected, centrally located, furnishes heat, electric power, and hot water to all buildings on the Campus using these services.

Eleven College Dormitories now in use accommodate approximately 1400 students. Other students will room, as at present, in homes in the vicinity of the Campus and in fraternity houses. Full information in regard to dormitories is sent by the Registrar to applicants accepted for admission to the College, or by the Superintendent of Dormitories.

INFORMATION FOR APPLICANTS

I. Admission

1. The first step toward admission to State College is to get from the Registrar, who is to be addressed at State College Station, Raleigh, a certificate blank. After the blank has been filled out and signed by the principal or the superintendent of the high school or other preparatory school, the certificate is sent to the Registrar for his decision on admission, notice of which will be given promptly.

The certificate must contain a statement from the school last attended of the good moral character of the applicant.

2. Undergraduate students may be admitted as regular or special.
   (1) A regular student is one who is registered in a four-year curriculum.
   (2) Women may be admitted as regular students provided they register in one of the regular curricula.
   (3) A special student is a person of mature age already engaged in some vocation in which instruction is desired. Such person may, upon presenting a satisfactory record of education and upon recommendation of the Dean of the School concerned, be admitted without the usual entrance requirements.
   Special students are not eligible for a degree, nor does work done as a special student have value for credit toward a degree. A special student cannot represent the College in any intercollegiate contest nor become a member of a fraternity.

3. Requirements for admission of regular students.
   (1) Sixteen years is the minimum age for admission.
   (2) Graduation from a State accredited high school, or an approved preparatory school, and fifteen units of credit, specified and elective as indicated below, are required for admission to the freshman class of four-year courses.
   (3) Applicants graduated by nonaccredited four-year high schools may be admitted by passing successfully an entrance examination such as that prepared by the Examination Committee of the North Carolina College Conference.
   (4) In exceptional instances a person of mature age may be admitted by the Dean of a School on the basis of his ability to carry the regular work of a curriculum in that School.

(5) Subjects and units of credit (a unit is allowed for a subject pursued for a year, five periods a week, each period being at least forty minutes, and successfully passed in a high school accredited by the North Carolina State Department of Public Instruction or other preparatory school accredited by competent authority).

	Units of Credit
English: Grammar, Composition, Literature	4
†History: United States or equivalent	1
Algebra	1.5
Plane Geometry	1
*Solid Geometry	.5
Science	1

The remainder of the required fifteen units will be accepted from the academic record presented except that not more than a total of one unit will be accepted for activity courses such as physical education, music, band, and military science.

(7) Students admitted from other countries who do not have a satisfactory command of the English language will be required to attend a non-credit English course until they acquire a mastery of English. This course will include vocabulary training in the student's major field of study.

4. Advanced standing is allowed on work done in approved colleges upon presentation of a certificate or transcript, duly signed and sealed, to the Director of Registration. The transcript is evaluated in the Registration Office to determine the maximum amount of credit and is then sent to the Dean of the school concerned for a detailed evaluation of credits which can be used in the curriculum selected.

Each applicant for admission to N. C. State College as a transfer from another college or a university must send with her or his application for admission a remittance of five dollars, to be known as the application fee. This remittance must be drawn in favor of N. C. State College, Raleigh, and should be in the form of a check or money order. No transcript of record sent in support of an application for admission will be examined and evaluated until the remittance is received. If the record received is not satisfactory for the applicant's admission, the remittance will be returned; if the record is satisfactory and the application is approved, the remittance will be deposited with the Cashier and will be applied as a credit at the time of the applicant's first registration. If the record is satisfactory and the application is approved and the applicant fails to matriculate at N. C. State College, the deposit is forfeited by the applicant.

* Solid Geometry is required only in the School of Engineering and in Agricultural Engineering. A special course is offered in college for applicants who do not present this credit for entrance. No college credit is allowed for the course.

† A student not offering for credit History of the United States is required to take the subject in his College course.

Because of the scholastic requirements imposed upon resident students, advanced standing credit cannot be allowed for courses passed at other institutions with the lowest passing letter grade, or corresponding numerical grades. At least one year in residence is required for a degree.

II. Expenses

Undergraduate

1. The total College expenses of a student resident of North Carolina need not for the regular College year exceed $650.00, for a nonresident of this State, $820.00. These amounts include the cost of room and board, heat and lights, tuition, fees and deposits, books, drawing instruments, laundry, and necessary incidentals. They do not include clothing, pocket money, or other incidentals.

2. Nonresidents of North Carolina pay an additional tuition charge. The College Administration has defined a nonresident student as a person who comes into North Carolina from another state for the purpose of attending college.

In order to draw a clear line between resident and nonresident students, the Administration has ruled that all students whose parents have not been domiciled in North Carolina for more than six months immediately preceding the day of their first enrollment in the institution shall be termed nonresident students, with the following exceptions:

(1) Students twenty-one years of age at the time of their first matriculation who have resided in North Carolina for more than one year preceding the day of their first enrollment.

(2) Children of regular employees of the Federal Government stationed in the State of North Carolina.

(3) Children of regular employees of the Federal Government who are employed outside of the State, but who through law are permitted to retain their North Carolina citizenship.

Students cannot claim a change in their resident status after matriculating. Students furnishing incomplete or incorrect information in order to obtain the special State-resident status shall be liable for dishonorable dismissal.

3. Applications for credit must be made to the Business Office of the College prior to registration day. Applications made later, if granted, will require a special fee of $2 and possibly also the fee for late registration.

4. For each failure to meet deferred payments as scheduled, a fee of $5 is charged.

5. Tuition and fees for residents of North Carolina as regular undergraduates or as special students scheduled for twelve or more credit hours are as follows:

	Fall Quarter	Winter Quarter	Spring Quarter
Tuition	$30	$30	$30
College Fees	25	25	25
Student Activities	4	3	2
Athletic Fee	8	5	2
Students Fees	2	2	2
General Deposit	20		

Special Student Fees include subscription to student publications of the school in which registered.

Note.—Tuition and Fees are subject to change by the Board of Trustees without advance notice.

6. The general deposit, in case of first year men, will be charged with cost of necessary expendable Military Supplies, such as shoes, books, etc. The balance of this deposit, in the case of all students, is refundable at the end of the year, after covering loss of, or excessive breakage of College property, or other indebtedness to the College.

7. Nonresidents of North Carolina registered in Forestry or Textiles will pay an additional $38.00 Tuition per quarter. Nonresident students registered in other curricula will pay an additional $55.00 Tuition per quarter.

8. Expenses include also the following:

	Fall Quarter	Winter Quarter	Spring Quarter
Room Rent	$18.00 to $30.00	$18.00 to $30.00	$18.00 to $30.00
Books and Supplies	20.00 to 35.00	8.00	
Drawing Equipment for those taking Drawing	17.50 to 35.00		

9. College fees include those for registration, for hospital and medical attention, for library and lectures, for laboratories and classrooms, and for physical education.

10. Student-activities fees include those for student government, student publications, and general student activities.

11. Freshmen, unless living at home with their parents, are required to room in specified College dormitories. Students are not permitted to live in fraternity chapter houses during their freshman year.

12. Reservation of a room and the first payment of rent must be made before August 15 to obtain the most desirable room available. A reservation may be canceled and the payment refunded upon notice before September 1, not later. Information about rooms may be had by writing Superintendent of Dormitories.

13. Dormitory rooms have necessary furniture, but each student must bring his own blankets, bed linen, and towels.

14. Board at the College Cafeteria may be paid in cash for each meal, or in tickets sold at the Cafeteria in books of $5.00 value for the convenience of students.

15. Applicants who desire information regarding part-time employment should address their inquiries to the Self-Help Secretary, College Y.M.C.A.

16. A refund of the amount paid the College, less the registration fee and a reasonable charge for lodging and services, is made to a student withdrawing within ten days from the date of registration; on withdrawal later, no refund will be made except of the general deposit.

Graduate and Special Students

1. Graduate students in residence will pay a $2.00 registration fee for each registration, $3.00 per credit hour for all courses scheduled, and $10.00 for the diploma.

2. Special students will pay a $2.00 registration fee for each registration and $3.00 ($5.00 for non-residents) per credit hour for all courses scheduled totaling less than twelve hours. Those scheduling 12 hours or more will pay regular fees. Special students do not receive academic credit.

3. The candidate for a professional degree will pay $10.00 when he registers and $15.00 for his diploma.

III. Registration

1. Upon his arrival on the campus each candidate of the freshman class is given a schedule of the exercises of the first week, known as Freshman Week.

2. The Certificate of Admission approved beforehand by the Registrar for the School and the Department in which the applicant wishes to register must be ready for presentation.

3. The dates indicated in the College Calendar for the registration of freshmen, of those applying for advanced credit, and of sophomores, juniors, seniors, and graduate students. must be strictly observed.

4. For registration after the scheduled date, an extra fee of $2 is required for the first day and $1 for each additional day until a maximum of $10 is reached.

Special Note to Freshmen and Transfer Students

Because of the testing program given during freshman week to all new students (except those with forty-five or more term credits of advanced standing), it is essential that all new students report on time. Late admissions cause a great deal of extra labor and expense. Therefore, beginning with the fall term registration in September, 1945, all new students (except transfer students with forty-five or more term credits of advanced standing) will be charged a $2 fee for each test missed during freshman week. This

charge is made because of the extra time which must be given to late individuals. The regular late fee regulations will apply to transfer students having forty-five or more term credits of advanced standing, who do not begin their registration on the date indicated. New students should plan to arrive on the campus on the day preceding the registration date in order to be available at 8:00 a.m. on registration day.

5. Directions in detail for registration are furnished each student on entering the registration room—the Gymnasium.

6. Vaccination against smallpox is required at the time of registration unless the applicant furnishes a doctor's certificate indicating he has been successfully vaccinated within two years preceding his registration.

7. Inoculation against typhoid fever, though not compulsory, is urgently suggested for those entering the College. Free inoculation is offered by the College to all students.

8. All new students will be given the Tuberculin Skin Test unless they present a statement from their family physician indicating that such a test has been taken during the past year.

9. Admission to classes is permitted only after complete registration certified on the official card of the Registrar. All instructors will enforce this rule.

10. Students may drop and add courses during a specified period at the beginning of each term by filing in the Office of Registration a roster change slip signed by their Dean, Adviser, and the instructors concerned. There is a charge of fifty cents for such changes made after registration day. Credit is not allowed for changes unless made in this manner.

11. Students may change from one curriculum to another by filing in the Office of Registration a curriculum change card signed by the Dean or Deans concerned. Such changes are effective at the beginning of the following term.

IV. Grades and Honor Points

1. Grading System:
   A—Excellent, 90-100.
   B—Good, 80-89.
   C—Passing, 70-79.
   D—Passing (without credit points), 60-69.
   F—Failure, below 60. (Required courses failed must be repeated.)
   Abs.—Absent from examination. (Equivalent to failure unless excused.
   Inc.—Incomplete.

2. Honor or quality points are determined by the grade:
   A—3 points for each credit hour.
   B—2 points for each credit hour.
   C—1 point for each credit hour.
   D—No points.

3. Mid-term reports for students who are failing any subject enable advisers and deans so to adjust the work of these students that they make, if possible, passing grades by the end of the term.
4. Seniors who fail a course within three terms (summer school counts as one term) of their graduation, may, if they have failed only one course, apply to the Office of Registration for permission to remove the failure by taking a re-examination on that course.
   a. If, however, a senior fails more than one course during one term and removes all but one of these deficiencies by repeating the course or courses and if he has had no other re-examination that year, he may apply at the end of his last term in residence for permission to take a re-examination to remove that failure.
   b. Permission to take any re-examination must be obtained from the Office of Registration, and a fee of $3.00 must be paid to the Business Office for each re-examination.

V. Scholarship Rules

1. a. For the period comprising the first three terms in residence, a student will be dropped from the rolls of the college at the end of any term in which he fails to pass at least six hours of work. Furthermore, he will be dropped at the end of this three-term period if he fails to pass a total of at least thirty hours.
   b. For the periods comprising the fourth, fifth, and sixth terms in residence, a student will be dropped at the end of any term in which he fails to pass at least eight hours. Furthermore, he will be dropped at the end of this three-term period if he fails to pass a total of at least thirty-five hours.
   c. For the remaining periods comprising three terms each, a student will be dropped at the end of any term in which he fails to pass at least ten hours. Furthermore, he will be dropped at the end of any three-term period in which he fails to pass a total of at least forty hours.
2. a. The summer sessions will not be considered as a part of any of the above periods. However, hours passed in a summer session may be included in the total of hours for the preceding period only.
   b. Transfer students who have attended college for fewer than three terms (or equivalent) will be regarded as entering the first term for purposes of these rules; those who have attended college for three terms or more will be regarded as entering the fourth term.
   c. Students who have been dropped for poor scholarship may not re-enter for the fall term of any year.
   d. Veterans are excused from the operations of these rules for their first term in residence after being discharged. The rules shall apply thereafter, and the work of that term may be included in the total of hours earned for the first three-term period or re-entering.

3. The re-entrance, after the interval of at least one term, of a student who has failed, or the entrance, after the lapse of at least one term, of a student who has failed at another college, shall be determined by the Dean or Director of Instruction of his school upon the basis of maximum scholastic advantage to the student.

4. "C" Average Rule. Before allowing students to enter the third or fourth year, they shall have earned net credit points equal to or greater than the term credits earned. In case of repeated courses, the repeated grade only shall be considered. This rule is applied before the fall term registration only, thus giving students ample time to earn the required points. Any student may attend the summer session at this institution to make up any shortage in points, but may not earn such points through correspondence courses or attendance at other institutions.

5. Honors in Scholarship:
   a. Honors in scholarship for the year are awarded those students who earn twice as many credit points as credit hours during the first two terms.
   b. High honors in scholarship for the year are awarded those students who earn two and one-half times as many credit points as credit hours during the first two terms.
   c. Honors in scholarship at graduation are awarded those students who have earned during their entire residence at this institution twice as many credit points as credit hours.
   d. High honors in scholarship at graduation are awarded those students who have earned during their entire residence at this institution two and one-half times as many credit points as credit hours.
   e. Public announcement of honors and high honors for the year is made on Scholarship Day; of graduation with honors or high honors at Commencement. Graduation with honors or high honors is also published in the College Catalog and engrossed upon diplomas.
   f. Dean's List. Any junior or senior having a cumulative average of "B" or better shall be exempt from the college rule which places a student on probation for excessive absences, and his name shall be placed on a preferred list. Once placed on such preferred list a student must maintain an average of "B" or better during each term he remains in college thereafter, or his name shall be removed from such preferred list and not entered thereon again.
   g. Class Attendance Regulations. A student is expected to attend every meeting of each class. Any student who is absent from class three (3) times without a satisfactory reason will lose one (1) quality point. A student who is absent ten (10) times in any term without a satisfactory reason will be placed on probation.

      Copies of attendance regulations in detail are available to all students in the Office of Dean of Students.

VI. Classification of Students

1. For the convenience of the college administration and in keeping with custom, regular students are classified as Freshmen, Sophomores, Juniors, Seniors, and Graduates. This classification is made only at the opening of the fall term, or when a student enters for the first time. The following system of classification is used:

Freshman—Less than 45 term credits.
Sophomore 45 credits through 104 credits.
Junior—105 credits through 159 credits.
Senior—160 or more credits.
Graduate A student who has already received a baccalaureate degree from a recognized college.

This system permits students to skip classifications and graduate as soon as scholastic requirements have been satisfied.

2. Students are promoted from the Basic Division to technical schools when they have earned 105 or more credits, including credit for all freshman requirements, and have a "C" average. Students who have earned as many as 140 credits without completing all freshman requirements are promoted to technical schools but must complete the remaining freshman courses without credit toward graduation. Transfer students are allowed at least four terms in which to make up freshman deficiencies and still receive credit toward graduation.

VII. Degrees

Since in conferring a degree and awarding a diploma, the College recognizes a student's character as well as his scholarship, the College reserves the right to withhold the degree and diploma for reasons other than unsatisfactory scholarship.

No student may earn more than one baccalaureate degree at any one commencement. In order to be eligible for a second Bachelor's degree, a student must complete a minimum of 36 term credits above the requirements for the first degree. There are, however, no additional residence requirements.

Undergraduate students who transfer from some other institution must spend one year in residence at this institution before being eligible for a degree.

An undergraduate student while not in residence may earn towards a degree not more than fifty term credits by correspondence and not more than sixty by correspondence and extension. Not more than six credit hours may be earned towards graduation after a student's last residence at this institution. Correspondence courses cannot be taken by a resident student unless they are a part of his official schedule approved by his dean.

The college confers the following degrees:

1. The college confers a Bachelor's degree in the student's major field upon the undergraduate student who successfully completes in regular order any of the prescribed curricula.

2. Upon the student who has previously obtained the Bachelor's degree and who successfully completes in regular order at least one year of prescribed graduate work in residence, the College confers a Master's degree in that student's major field.

3. The degree of Doctor of Philosophy in certain specified departments is offered in cooperation with the University at Chapel Hill under supervision of the Graduate School of the Consolidated University of North Carolina.

4. A professional degree in the school concerned may be conferred upon a graduate of State College, after five years of professional practice and significant accomplishment, upon presentation of an acceptable thesis.

5. The honorary degree, Doctor of Science, may be conferred upon candidates recommended by the various schools when approved by the General Faculty and the Board of Trustees.

6. A certificate of Meritorious Service in Agriculture may be awarded at Commencement to a bona-fide farmer who has rendered notable service in the advancement of agriculture in his community.

VIII. Financial Aids and Scholarships

1. **The Self-Help Secretary** of the College Y. M. C. A. (see page 44) will assist those desiring employment to help pay expenses.

2. **A Student Loan Fund,** first established by the State College Alumni Association, amounting now to $34,000, renders assistance to needy students of talent and high character. The Fund includes the **Finley Loan Fund** of $1,000 (see below), the **Masonic Loan Fund,** $4,500, the **Frank M. Harper Loan Fund.** $200, and the **Escheats Loan Fund** of $15,000.

At present, loans, restricted largely to juniors and seniors, are made at 6 percent on good security. Since the fund is comparatively small, new loans are usually made only as old ones are repaid.

The Finley Loan Fund is a memorial to William Wilson Finley by the Southern Railway Company, of which Mr. Finley was, at the time of his death, president. It is designated for needy students in Agriculture.

3. **The John Gray Blount Scholarships** were endowed by Colonel W. B. Rodman, of Norfolk, Virginia, in memory of his great-grandfather. The maximum value of each of the two scholarships is $195.

4. **The Champion Paper and Fibre Company** provides a fund for a Fellowship to encourage graduate study and research in Chemical Engineering.

5. **The Syd Alexander Scholarship** was endowed by Mrs. Mary R. Alexander of Charlotte, North Carolina, in memory of her husband, the late

Sydenham B. Alexander, alumnus and trustee of State College. The returns from the endowment $5,000 are awarded to a student, a native and resident of Mecklenburg County, North Carolina, who is pursuing a course in the School of Textiles of State College.

6. **The Barrett Company**, Distributors of Arcadian American Nitrate of Soda, offers to 4-H Club members the following one-year scholarships:

(1) To the member with the most distinguished record with a Corn-Club project.

(2) To the member with the most distinguished record in Cotton-Club work.

(3) To the member with the best Tobacco-Club record.

(4) To the member with the best record in Horticulture.

7. **The Burpee Award in Horticulture**—An annual award of $100, established in 1945 by Mr. David Burpee, President, W. Atlee Burpee Company, to financially assist and recognize outstanding students in Holticulture. The award will be made at the end of the third term of the junior year and will be based upon "scholarship, interest in research and practical experience" of the student. Students majoring in Vegetable Gardening and Floriculture will be given preference.

7. **The North Carolina Cottonseed-Crushers Association** offers to 4-H Club members the following one-year scholarships:

(1) To the member making the best record in the Baby-Beef contest.

(2) To the member making the best record in a dairy project.

(3) To the member making the best Pig-Club record.

8. (1) **The Chilean Nitrate Educational Bureau** offers a four-year scholarship to the 4-H Club member in North Carolina making the best record for three or more years in 4-H Club work.

(2) **The Chilean Nitrate Educational Bureau** also offers a hundred scholarships of $5 each: one to the most distinguished Club boy from each of the hundred counties of North Carolina attending the 4-H Summer Short Course at State College.

10. **The Luther W. Cartwright, Jr., Memorial Scholarship.** Memorializing the late Luther W. Cartwright, Jr., who gave his life in the service of his country, his father, Lieutenant Commander Luther W. Cartwright, has established a trust fund at the North Carolina State College of Agriculture and Engineering to provide for the annual award of a scholarship to be awarded to a senior in the school of engineering.

11. **The Abraham and Charles Erlanger Textile Scholarships.** Memorializing the late Abraham and Charles Erlanger, members of their family have established a trust fund at North Carolina State College of Agriculture and Engineering to provide for the annual award of a four-year scholarship in textiles.

Any son or daughter of an employee of the Erlanger Mills, Inc., in Lexington, N. C., the North Carolina Finishing Company in Salisbury, N. C., the North Carolina Fabrics Company in Salisbury, N. C., and the Alexander Manufacturing Company in Forest City, N. C., on graduation from high school, is eligible to compete for the Erlanger Scholarship.

12. **The Pieters Memorial Graduate Scholarship** commemorates the life and work of Dr. Adrian J. Pieters, long a leader in agriculture and a pioneer in the development of lespedeza. It was initiated by his wife, Mary Burr Pieters, to carry forward through graduate study his work with lespedeza and other acid-tolerant legumes. The annual stipend is $200.

13. **The L. Reade Powers Scholarship Fund.** Established by his brother, Dr. F. P. Powers, for the aid of needy students, primarily orphan boys or girls. This is in the nature of a loan fund to needy boys or girls.

14. **Sperry Gyroscope Scholarships.** The Sperry Gyroscope Company, Inc., has granted the College $1,250 per school year for four years, beginning in September, 1945, for two scholarships each school year, or one fellowship each school year. A committee composed of the Dean of Engineering, the Dean of Students, and the Head of the Department of Aeronautical Engineering will select the persons to receive the awards. The selections will be made from students having junior class, or senior class, or graduate standing.

15. **Graduate Fellowships** are offered each year by State College, during the current year, thirty-three teaching, twenty-four research fellowships. As the number of these scholarships is limited, application should be made early to the Head of the Department concerned.

16. As need arises, assistants in various Departments are selected from upperclass or graduate students.

STUDENT ACTIVITIES

Student Government

Student Government, in accordance with an agreement between the students and the Board of Trustees of the College, undertakes "to handle all matters of student conduct, honor, and general student interest, and to promote in Campus life self-control, personal responsibility, and loyalty to the College and the student body."

The Student Council, the legislative-executive body for Student Government, is composed of one senior, one junior, and one sophomore from each of the Schools—Agriculture and Forestry, Engineering, and Textile, and the Division of Teacher Education and one member chosen at large from the freshman class at the beginning of the second term.

For guidance in its operation, the **Constitution and By-Laws for Student Government** has been adopted.

Student Publications

The Publications Board is composed of the editors and business managers of all student publications, the president and the past president of the junior class, the president of the Student Council, and five faculty members. The Board seeks to promote the interests of the College and of the publications, to insure coöperation among the publications, and to hold the loyal support of the faculty, the students, and the public.

The Technician, the student newspaper, is delivered to each student's mail box every Friday morning of the regular College session. The charge for the paper is included in the student's publications fee.

The Agromeck is the official annual published at the end of each scholastic year of the College. A copy of The Agromeck is also paid for by each student in his publications fee.

The Agriculturist, a monthly magazine in its field, was begun by the activities of the Alpha Zeta fraternity and the "Ag" Club. All students of the School of Agriculture and Forestry are concerned in this enterprise.

The Southern Engineer, the organ of the School of Engineering, is managed by the Board of Directors of the Southern Engineer. They plan to issue four numbers during the regular College session.

Pi-ne-tum is the annual of the Division of Forestry. Its contents constitute a record of persons, especially the graduating class, and of events of the year interesting to students of the Division and their friends.

The Textile Forum is published quarterly by the students in the Textile School.

Clubs and Societies

All clubs and societies endeavor to bring together students (some clubs include members of the faculty), with the same interests or professional objective, in order to cultivate close personal relations and fellowship. Their chief purpose is to inculcate high professional consciousness and *esprit de corps*. With a view toward the accomplishment of these ends, they afford to members an opportunity to hear and to participate in discussions of professional problems, to prepare and to present papers on current technical topics.

The Agricultural Club, besides the usual activities, sponsors an annual dance.

The Forestry Club, having the usual program through the year, publishes its own annual, *Pi-ne-tum* (described under "Student Publications," above).

La Société des Beaux Arts includes students in Architectural Engineering and those in Landscape Architecture.

The Agricultural Engineering Club is a student branch of the national organization, The American Society of Agricultural Engineers, and brings together students of this department to discuss all phases of their specialty.

The Agricultural Education Society devotes its attention to matters of interest to students who are preparing to become teachers of agriculture.

Student Chapters in Engineering at State College represent the following national organizations:

The American Ceramic Society
The American Institute of Chemical Engineers
The American Institute of Electrical Engineers
The American Institute of Mining and Metallurgical Engineers
The American Society of Civil Engineers
The American Society of Mechanical Engineers
The Associated General Contractors of America
The Institute of Aeronautical Sciences
The National Society for the Advancement of Management
Theta Tau, Rho Chapter (National Professional Engineering Fraternity).

The Engineers' Council, composed of three students and a professor from each Department of the School of Engineering, publishes quarterly *The Southern Engineer* and sponsors the Engineers' Fair and Exposition.

The Tompkins Textile Society endeavors to keep abreast of whatever affects the textile industry, state, national, or foreign.

The Pan American Club cultivates friendship among students of all nationalities and has regular addresses and discussions of international events and relationships.

The Monogram Club has as its purpose to develop the highest order of sportsmanship in all athletics.

Honor Fraternities and Societies

Honor Fraternities and Societies strive to encourage and reward high attainment in scholarship and character, and to instill lofty professional ideals, with leadership in contribution to existing knowledge and in service as prime objectives. The following national fraternities and societies have chapters or other organizations at State College:

Alpha Zeta: Agricultural
Eta Kappa Nu: Electrical Engineering
Gamma Sigma Epsilon: Chemical
Kappa Phi Kappa: Teaching
Keramos: Ceramic Engineering
Lambda Gamma Delta: Agricultural Judging
Mu Beta Psi: Musical
Phi Eta Sigma: Freshman, Scholarship
Phi Kappa Phi: Scholarship
Phi Psi: Textile
Pi Kappa Delta: Public Speaking
Pi Tau Sigma: Mechanical Engineering
Sigma Pi Alpha: Language

Tau Beta Pi: Engineering
Blue Key: Scholarship, Leadership, Student Activities
Xi Sigma Pi: Forestry, Honorary.

The following are organizations peculiar to State College:

The Golden Chain: Senior Citizenship
The Order of St. Patrick: Senior Engineering; Collegiate and Personal Distinction
The Order of 30 and 3: Sophomore Leadership
The Pine Burr Society: Scholarship and Extracurricular Activity
Sigma Tau Sigma: Textile, Scholarship

Social Fraternities

Following are the national Greek-Letter Fraternities having chapters at State College. Each chapter occupies a chapter house in the vicinity of the campus.

Alpha Gamma Rho*
Alpha Kappa Pi*
Alpha Lambda Tau
Delta Sigma Phi
Kappa Alpha*
Kappa Sigma
Lambda Chi Alpha
Phi Kappa Tau*
Pi Kappa Alpha
Pi Kappa Phi
Sigma Alpha Mu
Sigma Nu
Sigma Phi Epsilon
Sigma Pi
Sigma Chi

The Interfraternity Council, composed of two representatives from each chapter, has as its purposes to advance the interests of North Carolina State College; to promote the general interests and welfare of the associated fraternities as a body; and to insure cooperation between them in their relations with the faculty, the student body, and the public in general.

MEDALS AND PRIZES**

1. **The Alpha Zeta Cup** is awarded to the sophomore in Agriculture who during his freshman year made the highest scholastic average.

2. **The General Alumni Association of the College** presents annually a trophy to the member of the graduating class who during his College course has most distinguished himself in athletics.

3. **The American Institute of Chemical Engineers** presents annually its award to the sophomore who during his freshman year made the highest scholastic record.

4. **The Associated General Contractors of America Prize** is awarded each year by the Carolina Branch of this organization to the member of the graduating class in Construction Engineering who during his sophomore, junior, and senior years has made the highest scholastic record.

* Inactive for the duration.
** Several of the above medals and prizes have been discontinued temporarily due to war conditions but it is expected that they will be resumed after the war is over.

5. **The Elder P. D. Gold Citizenship Medal,** founded by the late C. W. Gold in memory of his father, and continued by his son, C. W. Gold, Jr.. of Greensboro, North Carolina, is awarded annually to the member of the graduating class who during his sophomore, junior. and senior years has most distinguished himself in Student Citizenship. The qualities determining the award—scholarship, student leadership, athletics, and public speaking are to be attested by the College Registrar, the Student Council, the Faculty Athletic Committee, and a committee composed of the Dean of Administration and Dean of Students.

6. **The Moland-Drysdale Corporation Scholarship Cup,** presented by Mr. George N. Moland, of Hendersonville, North Carolina, President of the Corporation, is awarded annually to the freshman in Ceramic Engineering who, during the two terms preceding Scholarship Day, has the highest scholastic record together with interest shown in the activities of the Department.

7. **The J. C. Steele Scholarship Cup,** presented by J. C. Steele and Sons, of Statesville, North Carolina, to commemorate the establishment by Mr. Steele of the first plant for the manufacture in the South of ceramic machinery, is awarded annually to the student of the three upper classes in the Department of Ceramic Engineering who has made during the three terms preceding Scholarship Day the highest scholastic record. In making the award, personality and interest in the activities of the Department are considered.

8. **The Sigma Tau Sigma Cup** is awarded annually to the senior in Textiles who has the highest scholastic record.

9. **The Textile Colorist Medal** is awarded annually to the senior who presents the best thesis on some subject in Textile Chemistry and Dyeing.

10. **The National Association of Textile Manufacturers Medal** is awarded annually to a senior in the State College Textile School. The award is based upon conditions outlined by the National Association.

11. **Phi Kappa Phi, Honorary Scholarship Society,** awards each year a gold medal to the senior who as a junior, a silver medal to the junior who as a sophomore, and a bronze medal to the sophomore who as a freshman, made respectively, the highest scholastic record.

12. **The Mu Beta Psi Cup** is awarded annually to the senior having rendered the most service to the State College musical organizations during his college career.

PHYSICAL EDUCATION AND ATHLETICS

Professor J. F. Miller, Head

Assistant Professor C. G. Doak, Physical Education and Intramurals.
Assistant Professor T. I. Hines, Physical Education and Swimming Coach.
J. L. VonGlahn, Business Manager Athletics.
Rudolph Pate, Director Athletic Publicity.

W. B. Feathers, Head Coach Football and Baseball.
Starr Wood, Assist. Football Coach.
I. M. Rich, Assist. Football Coach and Track Coach.
E. M. Johnson, Custodian Gymnasium and Athletic Equipment.
Helen C. Croom, Secretary.
Geraldine S. Wiggins, Secretary, Physical Education.

Aims. In general, the Department aims are: (a) to promote a higher standard of physical fitness through "big muscle" activities; (b) to develop habits, knowledge, appreciation, and skills in desirable sports, and athletic and gymnastic procedures; (c) to develop habits of safe recreative activities to continue after graduation.

Organization.—The Department of Physical Education and Athletics is in the Basic Division of the College. The program of service has three sections: Physical Education, offered in various curricula, for which college credit is given; Intramural Activities, for every interested student in the College; Intercollegiate Athletics, representative of the College.

Control. All activities of the Department are controlled by the College. Physical Education and Intramural Activities are under the supervision of the Dean of the Basic Division. Intercollegiate Athletic Activities are under the supervision of the Athletic Council. The Head of the Department seeks balance and coördination in the work of the three sections. He delegates the work of the staff and sees that policies of the Department are carried out by them. To the Business Manager of Athletics is delegated the responsibility for business, financial, and all other details connected with intercollegiate contests. The members of the staff are expected to give reasonable and capable assistance in any work of the Department insofar as it does not interfere with their main specialization. They are responsible to the Head of the Department for carrying out their duties.

Buildings and Fields.—The Department of Physical Education and Athletics is quartered in the Frank Thompson Gymnasium. An attractive feature of the gymnasium is a white-tiled swimming pool and natatorium, with modern filter and chlorinating systems. The new Field House, located at the south end of Riddick Stadium, is the headquarters of the football squad. Offices of the football coaching staff are located in this building. Riddick Stadium, with new concrete bleachers, seats 15,000 spectators. Freshman Field, adjacent to the Gymnasium, is used for freshman football, intramural games, physical-training classes, and varsity baseball. The new quarter-mile track, with its 220-yard straightaways is located south of the Freshman Field. It has concrete stands seating about 3,000 spectators. "Red Diamond" and "1911 Parade Field" are available for intramural contests. The College has ten excellent clay tennis courts, with some additional courts contemplated.

Activities.—The College requires all students to enroll in some type of physical activity for two years, or six full terms. The classes meet twice a week, one term credit being given for each term's work. All students are required to take a physical and a medical examination at registration and

a physical fitness test. Those who are subnormal in any way are placed on the recall list. Students may receive free medical advice at any time. All freshmen are required to take the course in Health Education which meets once a week for one term. Instruction in personal hygiene is given by members of the Physical Education Staff. A swimming requirement is also made for all freshmen. This requirement must be met before graduation.

The required physical training courses are so standardized that they are presented, instruction given, and examination required of each student on the same basis as all other college courses.

All students are required to take classification activities during their first term. At the close of the fall term an examination is given which, together with a physical fitness test and the student's medical examination, determines the future activities of the student. The better students will be permitted to elect controlled sports throughout the remainder of their physical education requirements. The normal group will remain in the fundamental activity program until such time as they qualify to enter the elective sports activity program. A restrictive group composed of those students who have physical defects of a permanent nature will be given selected activities. In general, the physical training activities fall into one of three groups: (a) Those developing condition and physical skills. (b) Those occupying recreative or leisure time, (c) Those of a corrective nature.

Intercollegiate Athletics. North Carolina State College is a member of the Southern Conference, and subscribes to its rules of eligibility for all intercollegiate contests. The program consists of the organization and training of representative varsity and freshman teams in the following sports: football, basketball, baseball, track, cross-country, wrestling, boxing, swimming, tennis, golf, and rifle competition.

Intramural Athletics.—Activities are fostered and promoted in many lines of athletic sports for the student body. Meets, tournaments, and leagues are seasonably organized in twelve separate sports. Participation in these activities is purely voluntary; it does not receive College credit. Sports used in this program are correlated with those used in the required class work in Physical Education. Instruction in the sports is given in the class work, and opportunity for competition is provided in the intramural program. Cups, shields, and trophies are awarded winners in these competitions.

MUSIC

Christian D. Kutschinski, Director

Students with previous musical experience are encouraged to continue their musical activities in campus musical organizations for which they can qualify. Qualified musicians may enroll in the R.O.T.C. Band for their required military drill.

The 80-piece R. O. T. C. Band and 50-piece Drum-and-Bugle Corps furnish martial music for all military parades by the R. O. T. C. Regiment. Their R. O. T. C. drill periods are devoted to both military and musical instruction.

The 90 piece **Red-Coat Band** plays and marches at football games, and at other campus and civic affairs. Its membership comprises select R. O. T. C. and non-R. O. T. C. bandsmen, who rehearse three hours a week independently of the R. O. T. C. Band.

At the conclusion of the football season the personnel is reduced to a 72-piece symphonic or concert band.

The band is also subdivided into smaller units which alternate in furnishing music at pep meetings, basketball games, and on other such occasions.

The Concert Band, composed of 72 of the most proficient musicians on the campus, concentrates on the study and performance of the finest in concert music. Its activities have greatly increased the cultural growth of those participating, and have done much toward increasing appreciation of music on the campus and in the community, in addition to providing wholesome entertainment.

The Drum-and-Bugle Corps, besides functioning as a separate unit, is also combined with the band on certain occasions, giving State College a marching musical unit of 140 men in red-and-white uniforms. The band uniforms were contributed by students and faculty and interested citizens of Raleigh through the efforts of The American Legion and the Junior Chamber of Commerce.

Credit.—Juniors and seniors in the band, who are not enrolled in the R. O. T. C., may obtain three term credits per year for Band when approved by the Director.

The Concert Orchestra is augmented by a number of the best musicians in Raleigh to round out a symphonic instrumentation. Besides preparing concert programs, the orchestra is divided into smaller units to provide music of a lighter nature for numerous College functions.

The Men's Glee Club rehearses three times a week, and alternates with the orchestra and bands in giving concerts throughout the year. It has proved to be a very popular extracurricular activity, and the group is in demand for concerts out of town and at civic functions, in addition to those on the campus.

A Male Quartet and small **Chamber Music** ensembles are encouraged.

COLLEGE PUBLICATIONS

The State College Record is the official publication of State College and is issued from time to time, giving results of special studies and of research by members of the college faculty. The March issue is the annual CATALOG with announcements for the following year. Announcements as to College Extension courses also are included in *The Record* series as is found necessary.

Technical and popular bulletins are issued by the Agricultural Experiment Station as research projects are completed or as they have progressed far enough to be of definite value. *Research and Farming* also is a quarterly publication of the Experiment Station. Both the bulletins of the Sta-

tion and the quarterly publication will be sent free to citizens of the State on request.

General publications, many of them interpreting the scientific findings of the Experiment Station or giving results of Extension demonstration, are compiled by members of the Agricultural Extension Staff and are printed as circulars, folders and pamphlets. Usually they are brief, written in simple style and designed for popular use. *The Extension Farm News*, published monthly, is the official house organ of the Extension Service. All of these publications also are available free to citizens of the State on request.

The College publishes the results of experimental and research projects by its Engineering Experiment Station and by the Textile and Enginering Schools. Information about thse publications may be obtained from the Director of the Engineering Experiment Station.

HEALTH OF STUDENTS

The authorities of the College strive to protect the health of students in every way. Unless the college medical examination blank is completed by the family physician, each student is given a thorough physical examination when he enters the College. If remedial defects are discovered, such as defective tonsils or eyes, he is advised to have these defects corrected. If the defect is such that it may be corrected by exercise, the student is placed in a special class under the supervision of the Director in the Physical Education Department of the College.

The infirmary, maintained by the College, has accommodations for 76 patients. There is a staff of eight: the College Physician, a Supervising Nurse, a Night Supervisor, four general duty nurses, and one full-time Laboratory and X ray Technician.

A modernly equipped First-Aid Department, and a Laboratory and X-Ray Department are valuable features of the Infirmary.

The College Physician visits the Infirmary regularly once daily and more often when necessary. The Infirmary is never closed. A graduate nurse is on duty day and night. Students have free access to the Infirmary at all times.

Parents or guardians will be notified immediately by the Dean of Students in case of accident or serious illness of their sons, and no surgical operation will be performed, except in cases of extreme emergency, without full consent of parents.

The medical fee provides for students' infirmary service, general medical treatment, and the services of nurses. It does not provide for surgical operations, outside hospital care, or the services of dentists or any other specialist.

THE GENERAL ALUMNI ASSOCIATION

H. W. Taylor, Alumni Secretary

Purpose. The purposes of this organization are: to promote the growth, progress, and general welfare of State College; to foster among its former

students a sentiment of regard for one another and continuing attachment to their Alma Mater; and, to interest prospective students in attending State College.

Membership.—Student Associate membership is available to every student for the nominal sum of $2.00, which covers membership for 12 months from date of payment and also includes subscription to State College News.

Active membership is available to all former students, regardless of length of stay at the college. The annual dues for active members is $3.00, which covers membership for 12 months from date of payment and also includes subscription to State College News.

Associate membership includes those members of the College Faculty, Staff, Extension Service, Teachers of Agriculture in high schools, Experiment Station workers, and others who are elected to such membership by the Association. The annual dues are $2.00 and include subscription to State College News.

Honorary members include such distinguished persons as are duly elected to honorary membership at the commencement meeting of the association.

Meetings.—The Association meets annually on Alumni Day in connection with commencement exercises.

Reunions.—Class reunions are held each year in connection with the annual meeting of the Association. They are scheduled so that each class has a reunion the first year, and subsequently, every five years after graduation.

Elections.—Officers of the association are elected by the active members between April 1 and May 15 each year. Ballots are printed in State College News.

State College Clubs.—Local clubs are organized in most of the counties in North Carolina and in a number of cities in other states, such as New York, Chicago, Pittsburgh, Washington, Norfolk, Newport News, Charleston, Richmond, and Atlanta. Most of them hold quarterly meetings and student associate members are invited to attend.

State College News.—State College News is published every month in the year by the General Alumni Association and is sent to all dues paying members. The purpose of this magazine is to keep Association members in touch with the college and with each other. It carries news about former and present students and about the college, and is well illustrated with pictures.

The Alumni Office. Records of both graduates and nongraduates are kept by the Alumni Office. The master file includes information on all former students; other files are arranged geographically and by classes. Biographical files are also kept.

Serving as a medium of communication between alumni and the College, the Alumni Offices, located on the second floor of Holladay Hall, are official headquarters for alumni when they visit the campus.

THE D. H. HILL LIBRARY

Harlan Craig Brown, Librarian, on military leave of absence.
A.B., B.S. in L.S., University of Minnesota; A.M. in L.S., University of Michigan.

Mrs. Reba Davis Clevenger, Acting Librarian.
B.L.S., University of Illinois.

Mrs. Elizabeth Valentine Crawford, Periodicals Librarian.
B.S., N. C. State College; A.B. in L.S., University of North Carolina.

Mrs. Katherine Alston Edsall, Circulation Librarian.
A.B., Randolph-Macon Woman's College; A.M., Columbia University; B.S., in L.S., Catholic University of America.

Miss Rachel Penn Lane, Librarian-Abstracter in charge of Textile Department Library of School of Textiles.
A.B., University of North Carolina.

Robert Mitchell Lightfoot, Jr. On military leave of absence.
B.S., N. C. State College; M.S., University of Virginia; B.S. in L.S., Syracuse University.

Miss Foy Lineberry, Catalog Librarian.
A.B., Meredith College; B.S. in L.S., University of North Carolina.

Miss Mary Elizabeth Poole, Reference and Document Librarian.
A.B., Duke University; B.S. in L.S., University of North Carolina.

Miss Anne Leach Turner, Order Librarian.
A.B., University of North Carolina; B.S. in L.S., Columbia University.

The D. H. Hill Library building was erected in 1926, and named in honor of a former president of North Carolina State College. It houses the main part of the book collection and provides a reading room for study and a recreational reading room where books of general interest are readily available.

This is a reference and circulating library open to all the college personnel. There is no limit to the number of books that may be borrowed at one time. Its resources are available, through interlibrary loan, to individuals and to other educational institutions of the city and state.

The library comprises over 75,000 volumes of books and journals, 9,000 volumes of bound federal, state and foreign documents, and a large number of unbound items. More than 900 periodicals and newspapers are received currently. The library's holdings are particularly well developed in the special fields of science and technology, which are covered in the curriculum and which are followed in the research programs of the graduate school and the Agricultural Experiment Station and the Engineering Experiment Station. In addition, the library offers recreational and general informational reading.

An Architecture Department Library, located in Daniels Hall, was established in 1941. The nucleus was a gift from the personal library of

Professor Shumaker and the collection now consists of more than 2400 volumes of books, journals, bibliographical materials and reference aids.

In 1945, there was established a department library in the School of Textiles. It contains over 1100 bound volumes of books and journals and a large collection of pamphlet material. It serves not only the student body but also the research staff, as it is well equipped with abstracting and bibliographical tools.

YOUNG MEN'S CHRISTIAN ASSOCIATION

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MRS. L. W. BISHOP, Office Secretary

Student Organization

The Student Cabinet

The cabinet is composed of the four officers of the association, President, Vice-President, Secretary, and Treasurer and the chairmen of all standing committees. The officers are elected annually by ballot. The committee chairmen are appointed by the President. The cabinet is in charge of the program of the association. The President and Treasurer are ex-officio members of the Board of Directors.

The objective of the Young Men's Christian Association is to help contribute whatever is lacking in the total educational situation to make the principles and the spirit of the Christian religion effective in personal life and in all social relations.

The Y. M. C. A. Building is the social and religious center of the campus. On the basement floor are a recreation room, a guest room, and the Student Supply Store. There is a spacious lobby, an auditorium, a reception room, the self-help office, and the service office on the first floor. The second floor provides space for the Faculty Club, a Conference Room, a committee room, the Y. M. C. A. Cabinet Room, and the office of the General Secretary.

The student-employment service is directed by the Assistant Secretary of the Association.

Student and faculty organizations of all kinds use the facilities of the building for meetings and social gatherings, entertainments and lectures.

The Y. M. C. A. program, directed by the Student Cabinet, includes, with other features not mentioned, work for new students; organizing a Fresh man Cabinet; planning socials with the students from nearby women's colleges; bringing to the campus eminent men to speak on such topics as men and-women relations, and present-day international, racial, and economic questions; conducting an annual religious-emphasis week under the leader ship of Christian ministers or laymen who understand student life; sending delegates to State, regional, and National Christian Student Conferences.

MILITARY TRAINING

The Military Department: The Reserve Officers Training Corps

The Reserve Officers Training Corps, the official designation of the military organization at State College, conducts the work in two courses of two years each.

The Basic Course.[1]—**The Basic Course** is a required course for all physi cally fit freshmen and sophomores.

The Advanced Course.—The Advanced Course is elective for juniors and seniors who have successfully completed the Basic Course. Satisfactory completion of the Advanced Course leads to a commission as a Second Lieutenant in the Officers Reserve Corps.

For detailed description of courses, see the courses listed under Military Science and Tactics.

Uniforms and Equipment

Army Officers. The Federal Government details officers of the Army as Instructors in the R. O. T. C. The senior instructor is designated by the War Department as Professor of Military Science and Tactics. Regular Army and or Reserve officers conduct classroom instruction and super vise the instruction of the corps on the drill fields.

Uniforms.—Uniforms for Basic Course students, and all instructional equipment are provided by the Federal Government. These are loaned to the Institution, which is accountable to the Federal Government for their proper care and use.

Financial Aid. Members of the Advanced Course are paid commutation of rations by the Federal Government. Each member is issued an officer type uniform.

Military Band. A **Military Band** is supervised by Military Staff and trained by the Director of Music of the College. Instruments are provided by

[1] All veterans in service as long as six months are excused from this course. Such men are eligible to compete for the advanced course if they so desire.

the Federal Government. Membership is open to all student musicians who can qualify. Time is given for instruction in concert music in addition to military-band music.

Credit. Credit is allowed for work at other institutions having an R. O. T. C. Unit established in accordance with the provisions of the National Defense Act and Army Regulations. Record of a student's prior training in R. O. T. C. is obtained by the Military Department from the institution concerned.

Educational Value. The mission of the R. O. T. C. is to qualify the student as a leader whether in peace or in war, to help prepare him to discharge his duties as a citizen and to awaken him to an appreciation of the obligations of citizenship. Primarily, it is an agency for the production of Reserve Officers for those arms which are restricted as to their sources of production, and it should produce for those arms the number of Reserve Officers required in the initial periods of general mobilization.

Students who complete the course, according to their own statements, secure personal benefits which are valuable to them in their occupations. They are better citizens because they have had inculcated an understanding of the responsibilities of citizenship. They realize more fully that the benefits their own generation enjoys were secured by sacrifices made by their predecessors. They learn the necessity for discipline, the responsibility of an individual to the group as a whole, and the methods by which discipline is developed and enforced. Finally, they learn the principles of leadership and have an opportunity to exercise this art to a greater extent than that which is available to them in any other phase of their scholastic instruction.

III. SCHOOLS, DIVISIONS AND DEPARTMENTS

THE BASIC DIVISION

Benjamin Franklin Brown, Dean

Organization.—Upon recommendation by President Graham, the Basic Division of the College was created by action of the Board of Trustees at its annual meeting on June 11, 1935. After considerable preliminary preparation, the organization of the Division became effective July 1, 1937, the first students being registered in the Division in September, 1938. For the first year it seemed advisable to include only the incoming freshmen. Beginning with the College year 1939-40, all freshmen and sophomores in the College are registered in the Basic Division.

Within its administration, the Basic Division includes the Departments of Economics, English, Ethics and Religion, History and Political Science, Modern Languages, Physical Education, and Sociology. The Heads of the Departments, or representatives from them, constituting the Administrative Board of the Division, together with the members of the several Departments are as follows:

Economics

Professor C. B. Shulenberger, Administrative Board Representative
Professors B. F. Brown, R. O. Moen, M. C. Leager; Associate Professors R. W. Green, T. W. Wood; Instructors L. J. Arrington, †R. L. McMillan

English

Professor Lodwick C. Hartley, Head of the Department
Professors J. D. Clark, Roger P. Marshall, T. P. Harrison. A. I. Ladu; Associate Professors A. M. Fountain, E. H. Paget; Assistant Professors P. H. Davis, H. G. Kincheloe, **F. H. Lyell, A. B. R. Shelley, T. L. Wilson, R. B. Wynne, W. K. Wynn; Instructors J. C. Drake, **A. N. Kruger, J. P. Nickell, J. A. Shackford.

Ethics and Religion

Professor W. N. Hicks, Head of the Department

History and Political Science

Professor James W. Patton, Head of the Department
Associate Professors, L. W. Barnhardt, Preston W. Edsall
Assistant Professor L. Walter Seegers

Modern Languages

Professor L. E. Hinkle, Head of the Department
Associate Professor S. T. Ballenger; Instructors †I. O. Garodnick, Mrs. Ruth B. Hall

† On leave.
* On leave with United States Navy.
** On leave with United States Army.

Physical Education and Athletics

Professor J. F. Miller, Head of the Department

Assistant Professors C. G. Doak, T. I. Hines

For names of Physical Education staff and athletic coaches see page 37.

Sociology

Professor Sanford R. Winston, Head of the Department

Student Personnel

Professor R. N. Anderson, Director

Guidance. The Student Personnel Program is to aid students in orientating themselves to their new College environment. Much of this is accomplished during Freshman Week. The purposes of this orientation week are: to make the new student feel welcome to the institution; to acquaint the student with the objectives, rules and regulations, and the campus and living accommodations of the College; to take the placement tests in Mathematics and in English and the Psychological examinations; to establish definite relations between students and counselors for later guidance; to perform the details of admission.

Each Freshman is assigned to a Counselor who will aid the student in solving his academic, personal, social and vocational problems.

Also, each Freshman is assigned to a Technical Adviser in the curriculum in which he is registered, to assist him in planning for his professional career.

The Department of Psychology operates a Psychological Service Center which provides an individual testing and counseling service for special problems in academic, personal, social and vocational areas to assist the Counselors and the Technical Advisers in the guidance of students. Tests of aptitudes, educational achievement, interests and personality are administered for individual diagnosis.

The Faculty of the Division

The faculty is composed of the staff members of the Departments named above and, in addition, the teachers of freshmen and sophomores from the Departments of Botany, Chemistry, Geology, Mathematics, Physics, Psychology, and Zoölogy.

Purposes.—Broadly speaking, the purposes of the Basic Division are (a) to provide the best possible preliminary training during the first two years of the student's college career so that he can during the last two years successfully pursue his professional education in agriculture and forestry, engineering, textiles, or vocational education; and (b) to provide effective guidance during the first two years, so that those students with well-chosen and fixed purposes can be well-advised in their educational careers, and also so that those students who have made an unsatisfactory choice of curriculum

or who have become uncertain of their careers, may receive helpful guidance and advice in finding themselves.

More specifically it is the function of the Basic Division:

First, to provide "two years of basic courses in the humanities, natural and exact sciences, and the social sciences as the foundation of the schools of agriculture and forestry, textiles, and engineering;"[1]

Second, "to provide in the curricula of the upper years of each technological school for a minimum of the more general cultural courses in the humanities, natural sciences, and social sciences."[2]

Promotion.—A student is promoted from the Basic Division upon earning with an average grade of at least C not fewer than 105 credits, including all of the work prescribed in his freshman year.

Those promoted may procure Certificates of Promotion upon application to the Dean of the Basic Division.

Student Loads. It is the policy of the Basic Division and the purpose of its scholarship rules to encourage students to take such a number of credit hours each term as they can carry well, depending upon previous preparation, ability, self-help duties, health, etc. With few exceptions, each student starts the first term of his first year with a normal average load; those who do exceptionally well are encouraged to make as good progress as possible by adding hours up to their capacity, while those whose records indicate lack of ability from any cause are urged to reduce their loads to a point where they can do work of a creditable quality. Judgment as to the load that a student should take in any term is based upon previous demonstration of scholarship.

PROGRAMS OF STUDY

Programs of Study.—The Basic Division grants no degrees. It provides two years of fundamental training in preparation for the special training of the last two years in the other divisions of the College:

The School of Agriculture and Forestry
The School of Engineering
The Division of Teacher Education
The School of Textiles

Its programs of study are as follows:

[1] President Graham's Report to the Board of Trustees, June 11, 1935, page 11.
[2] Ibid.

AGRICULTURE AND FORESTRY

A. General Curriculum in Agriculture

†Majors in:

Any department except Agricultural Engineering, Chemistry, Experimental Statistics and Forestry.

Courses	Terms and Credits F	W	S
Composition, Eng. 101, 102, 103	3	3	3
Alg., Trig., and Phys. Geol., Math. 111, 112, Geol. 120	4	4	4
U. S. Hist., and Am. Govt., Hist. 121, 122, Pol. Sc. 211	3	3	3
Gen. Bot., or Gen. Zool., Bot. 101, 102 or Zool. 101, 102	0	4	4
Gen. Field Crops or Int. to An. Ind., F.C. 101 or A.I. 101	4	0	0
Int. to An. Ind., or Gen. Field Crops, A.I. 101 or F.C. 101	0	4	0
Gen. Hort. or Gen. Poult., Hort. 101 or Poul. 101	0	0	4
Int. to Ag., Ag. 101	1	0	0
†Mil. Sc. I, Mil. 101, 102, 103	2	2	2
Physical Education and Hyg. P.E. 101, 102, 103	1	1	1
Gen. and Org. Chem., Chem. 201, 202, 203	5	5	5*
Gen. Zool., Gen. Bot., Physics, Zool. 101, 102, or Bot. 101, 102 and Phys. 115	4	4	5*
Gen. Poul., or Gen. Hort., Poul. 101 or Hort. 101	4	0	0
Rur. Soc., or Ag. Econ., Rur. Soc. 201, Ag. Econ. 202	3	0	0
Ag. Econ. or Rur. Soc., Ag. Econ. 202, Rur. Soc. 201	0	3	0
Pub. Spk., Eng. 231	0	0	3
Farm Equip., or Soils, Ag. Eng. 202 or Soils 202	0	4 or 5	0
Soils or Farm Equip., Soils 202 or Ag. Eng. 202	0	0	4 or 5*
†Mil. Sc. II, Mil. 201, 202, 203	2	2	2
Physical Education, P.E. 201, 202, 203	1	1	1

† Or six credits in one or two of the following deartments: Economics, Ethics and Religion, History and Political Science, Modern Languages, Psychology, and Sociology.

* Majors will be chosen at the end of the fifth term. Students anticipating the desire to take a full year of Organic Chemistry, or a full year of Physics, may omit either or both of these five-hour courses and schedule courses from the upper two years. Soils or Agricultural Engineering may be postponed to the upper two years if the major selected makes some other course nonessential at this point.

B. Specialized Curriculum in Agriculture

Majors in:

Agricultural Engineering, Agricultural Chemistry, Experimental Statistics (or any other department in the School of Agriculture).

Courses	Terms and Credits F	W	S
Composition, Eng. 101, 102, 103	3	3	3
†Gen. Chem., Chem. 101, 102, 103	4	4	4
Alg., Trig., Anal., Math. 101, 102, 103	6	6	6
**U. S. Hist., and Am. Govt., Hist. 121, 122, Pol. Sc. 211 or Eng. Dr. II and Des. Geom., M. E. 105, 106, 107	3	3	3
Int. to Ag., Ag. 101	1	0	0
*Mil. Sc. II, Mil. 101, 102, 103	2	2	2
Physical Education and Hyg. P.E. 201, 202, 203	1	1	1
Phys. for Eng. Phys. 201, 202, 203 or Chemistry elective	4	4	4
Gen. Bot., or Gen. Zool., and Phy. Geol., Bot. 101, 102 or Gen. Zool. 101, 102, and Geol. 102	4	4	4
Pub. Spk., Eng. 231, and Elective English	3	3	3
††Electives	7	7	7
*Mil. Sc. II, Mil. 201, 202, 203	2	2	2
Physical Education, P.E. 201, 202, 203	1	1	1

* Or six credits in one or two of the following departments: Economics, Ethics and Religion, History and Political Science, Modern Languages, Psychology, and Sociology.

** These three terms of History must be taken later if omitted at this time.

† Students who do not anticipate taking more than one year of Chemistry will take Chem. 201, 202, 203.

†† A minimum of 18 hours of technical agriculture must be taken among electives of the second, third and fourth years. In Agricultural Engineering five electives may be substituted for the foreign language. A minimum of 240 credits is required for graduation.

Major in Dairy Manufacturing

Courses	Terms and Credits F	W	S
Composition, Eng. 101, 102, 103	3	3	3
Alg., Trig., and Phys. Geol., Math. 111, 112, Geol. 120	4	4	4
U. S. Hist., and Am. Govt., Hist. 121, 122, Pol. Sc. 211	3	3	3
Gen. Bot., or Gen. Zool., Bot. 101, 102 or Zool. 101, 102	0	4	4
Gen. Field Crops or Int. to An. Ind., F.C. 101 or A.I. 101	4	0	0
Int. to An. Ind., or Gen. Field Crops, A.I. 101 or F.C. 101	0	4	0
Gen. Hort. or Gen. Poult., Hort. 101 or Poul. 101	0	0	4
Int. to Ag., Ag. 101	1	0	0
*Mil. Sc. I, Mil. 101, 102, 103	2	2	2
Physical Education and Hyg. P.E. 101, 102, 103	1	1	1
Pub. Spk. and elective English 231	0	3	3
Gen. and Org. Chemistry, Chem. 201, 202, 203	5	5	5
Gen. Econ., and Physics, Econ. 201, 202, and Phys. 115	3	3	5
Gen. Bot. or Gen. Zool. and Gen. Bact., Bot. 101 or Zool. 101, Bot. 312	4	0	4
Gen. Poul., or Gen. Hort., Poul. 101 or Hort. 101	4	0	0
Agric. Dr., Ag. Eng. 222	0	3	0
*Mil. Sc. II, Mil. 201, 202, 203	2	2	2
Physical Education, P.E. 201, 202, 203	1	1	1

* Or six credits in one or two of the following departments: Economics, Ethics and Religion, History and Political Science, Modern Languages, Psychology, and Sociology.

Major in Forestry

Courses	Terms and Credits F	W	S
Composition, Eng. 101, 102, 103	3	3	3
Alg., Trig., Math. of Fin., Math. 111, 112, 113	4	4	4
Gen. and Syst. Botany, Bot. 101, 102 203	4	4	3
Drawing, C.E. 101, 102, 103	1	1	1
El. Forestry, Gen. Zool., For. 101, Zool. 101, 102	3	4	4
Int. to Psych., Am. Govt., Psych. 200, Pol. Sc. 211	3	0	3
*Mil. Sc. I, Mil. 101, 102, 103	2	2	2
Physical Education and Hyg., P.E. 101, 102, 103	1	1	1
Physics, Gen. Econ. Phys. 115, Econ. 201, 202	5	3	3
Dendrology, Bot. 211, 213	3	0	3
Gen. and Org. Chem., Chem. 201, 202, 203	5	5	5
Wood Tech., Phy. Geol., English, For. 201, Geol. 120, Elec. Eng.	3	4	†3
Theo. Surv., C.E. 221, 222	0	3	3
Field Surv., Top. Dr., C.E. 225, 224	0	1	1
*Mil. Sc. II, Mil. 201, 202, 203	2	2	2
Physical Education, P.E. 201, 202, 203	1	1	1
Surv. and Maping, Dendrol., Mensur., Silviculture, Forest Prot., Imp., and Inf., C.E. s300, For. 214, 274, 204, 244	Summer		

* Or six credits in one or two of the following departments: Economics, Ethics and Religion, History and Political Science, Modern Languages, Psychology, and Sociology.

† Students who have been certified by the department of English as proficient in English may substitute a modern language.

Major in Landscape Architecture

Courses	Terms and Credits F	W	S
Composition, Eng. 101, 102, 103	3	3	3
Algebra, Trigonometry, Analytics, Math. 101, 102, 103	6	6	6
General Botany, Systematic Botany, Bot. 101, 102, 203	4	4	3
Engineering Drawing II, Descriptive Geometry, M. E. 105, 106, 107	3	3	3
Arboriculture, L. A. 101, 102, 103	1	1	1
Drawing, C. E. 101, 102, 103	1	1	1
Military Science I, Mil. 101, 102, 103 or Human Rel., Soc. 101, 2, 3	2	2	2
Physical Education and Hygiene, P. E. 101, 102, 103	1	1	1
Business English, Public Speaking, Eng. 211, 231	3	0	3
Physical Geology, Plant Physiology, Geol. 120, Bot. 221	0	4	5
Introduction to Psychology, Introduction to Economics, Psych. 200, Econ. 205	3	3	0
Introduction to Architecture, Elements of Architecture, Arch. 201, 202, 203	3	3	3
Pencil Sketching, Arch. 100	3	0	0
Theory of Landscape Design, L. A. 212, 213	0	3	3
Theoretical Surveying, C. E. 221, 222	3	3	0
Field Surveying, C. E. 225, 227	1	0	1
Plant Materials; Woody Plants, L. A. 201, 202, 203	2	2	2
Military Science II Mil. 201, 202, 203, or World Hist., Hist. 104	2	2	2
Physical Education, P. E. 201, 202, 203	1	1	1
Surveying, C. E. s310, 3 credits	Summer		

Major in Wildlife Conservation and Management

Composition, Eng. 101, 102, 103	3	3	3
General Inorganic Chemistry, Chem. 101, 102, 103	4	4	4
Algebra and Trigonometry, Math. 111, 112	0	4	4
U. S. Hist. and Am. Govt., Hist. 121, 122 and Pol. Sc. 211	3	3	3
General and Economic Zoology, Phys. Geology, Zool. 101, 102, Geol. 120	4	4	4
Elementary Wildlife Management, Zool. 111	1	0	0
Military Science I, Mil. 101, 102, 103	2	2	2
Physical Education and Hygiene, P. E. 101, 102, 103	1	1	1
Public Speaking, Eng. 231	3	0	0
Ornithology, Zool. 251, 252, 253	2	2	2
General Botany, Systematic Botany, Bot. 101, 102, 203	4	4	4
General Field Crops, Introduction to Organic Chemistry, F. C. 201, Chem. 203	0	4	5
Gen. Econ., 201, 202	3	3	0
Physics for Agricultural Students, Phys. 115	0	0	5
Theoretical Surveying, C. E. 221, 222	3	3	0
Field Surveying, C. E. 225	1	0	0
Comparative Anatomy, Zool. 223	0	0	5
*Military Science, Mil. 201, 202, 203	2	2	2
Physical Education, P. E. 201, 202, 203	1	1	1

* Or six credits in one or two of the following departments: Economics, Ethics and Religion, History and Political Science, Modern Languages, Psychology, Sociology.

ENGINEERING

Major in Aeronautical Engineering

Courses	Terms and Credits F	W	S
Composition, Eng. 101, 102, 103*	3	3	3
General Inorganic Chemistry, Chem. 101, 102, 103	4	4	4
Algebra, Trigonometry, Analytics, Math. 101, 102, 103	6	6	6
Engineering Drawing II, Descriptive Geometry, M. E. 105, 106, 107	3	3	3
*Military Science I, Mil. 101, 102, 103	2	2	2
Physical Education and Hygiene, P. E. 101, 102, 103	1	1	1
Surveying, C. E. s200, 3 credits	Summer		
†Business English, Public Speaking, Eng. 211, 231, and elective English	3	3	3
Calculus I, II, III, Math. 201, 202, 303	4	4	4
Physics for Engineers, Phys. 201, 202, 203	4	4	4
Mechanical Drawing, M. E. 211, 212, 213	2	2	2
Shopwork, M. E. 124, 125, 126	3	3	3
Engineering Mechanics, E. M. 311, 312	3	3	3
*Military Science II, Mil. 201, 202, 203	2	2	2
Physical Education, P. E. 201, 202, 203	1	1	1

Major in Architectural Engineering

Composition, Eng. 101, 102, 103	3	3	3
General Inorganic Chemistry, Chem. 101, 102, 103	4	4	4
Algebra, Trigonometry, Analytics, Math. 101, 102, 103	6	6	6
Engineering Drawing II, Descriptive Geometry, M. E. 105, 106, 107	3	3	3
*Military Science I, Mil. 101, 102, 103	2	2	2
Physical Education and Hygiene, P. E. 101, 102, 103	1	1	1
Surveying, C. E. s200, 3 credits	Summer		
†Business English, Public Speaking, Eng. 211, 231, and elective English	3	3	3
Calculus I, II, III, Math. 201, 202, 303	4	4	4
Physics for Engineers, Phys. 201, 202, 203	4	4	4
Pencil Sketching, Arch. 100	1	1	1
Elements of Architecture I, II, III, Arch. 201, 202, 203	3	3	3
Shades and Shadows, Arch. 205	2	0	0
Perspective Drawing, Arch. 206	1	0	0
Engineering Mechanics, E. M. 311, 312	0	3	3
*Military Science II, Mil. 201, 202, 203	2	2	2
Physical Education, P. E. 201, 202, 203	1	1	1

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* Or six credits in one or two of the following departments: Economics, Ethics and Religion, History and Political Science, Modern Languages, Psychology, Sociology.

† Students who have been certified by the Department of English as proficient in English may substitute Modern Language for the courses listed.

Major in Architecture

Courses	Terms and Credits F	W	S
Composition, Eng. 101, 102, 103	3	3	3
Algebra, Trigonometry, Analytics, Math. 101, 102, 103	6	6	6
French or Modern Language, M. L. 101, 102, 201 or equivalent	3	3	3
Pencil Sketching, Arch. 100	1	1	1
World History, Hist. 111, 112, 113	2	2	2
Architectural or Mechanical Drawing, Arch. 107 or M. E. 105, 106	3	3	0
Descriptive Geometry, M. E. 107	0	0	3
*Military Science I, Mil. 101, 102, 103	2	2	2
Physical Education and Hygiene, P. E. 101, 102, 103	1	1	1
Surveying, C. E. s200, 3 credits	Summer		
Calculus I, II, III, Math. 201, 202, 303	4	4	4
Background for Modern Thought or Elective	3	3	3
Physics for Engineers, Phys. 201, 202	4	4	0
History of Sculpture, Arch. 325	0	0	2
Working Drawings, Arch. 305	0	0	2
Shades and Shadows, Arch. 205	2	0	0
Perspective Drawing, Arch. 206	1	0	0
Engineering Mechanics, E. M. 301, 302	0	3	3
Elements of Architecture, Arch. 201, 202, 203	3	3	3
*Military Science II, Mil. 201, 202, 203	2	2	2
Physical Education, P. E. 201, 202, 203	1	1	1

Major in Ceramic Engineering

Composition, Eng. 101, 102, 103	3	3	3
General Inorganic Chemistry, Chem. 101, 102, 103	4	4	4
Algebra, Trigonometry, Analytics, Math. 101, 102, 103	6	6	6
Engineering Drawing II, Descriptive Geometry, M. E. 105, 106, 107	3	3	3
*Military Science I, Mil. 101, 102, 103	2	2	2
Physical Education and Hygiene, P. E. 101, 102, 103	1	1	1
Surveying, C. E. s200, 3 credits	Summer		
†Business English, Public Speaking, Eng. 211, 231, and elective English	3	3	3
Qualitative and Quantitative Analysis, Mineralogy, Chem. 211, 212, Geol. 230	4	4	3
Calculus I, II, III, Math. 201, 202, 303	4	4	4
Physics for Engineers, Phys. 201, 202, 203	4	4	4
Engineering Geology, Ceramic Materials, Ceramic and Mining Processes, Geol. 220, Cer. E. 202, 203	3	3	3
*Military Science II, Mil. 201, 202, 203	2	2	2
Physical Education, P. E. 201, 202, 203	1	1	1

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* Or six credits in one or two of the following departments: Economics, Ethics and Religion, History and Political Science, Modern Languages, Psychology, Sociology.

† Students who have been certified by the Department of English as proficient in English may substitute Modern Language for the courses listed.

Major in Chemical Engineering

Courses	Terms and Credits F	W	S
Composition, Eng. 101, 102, 103	3	3	3
General Inorganic Chemistry, Chem. 101, 102, 103	4	4	4
Algebra, Trigonometry, Analytics, Math. 101, 102, 103	6	6	6
Engineering Drawing II, Descriptive Geometry, M. E. 105, 106, 107	3	3	3
*Military Science I, Mil. 101, 102, 103	2	2	2
Physical Education and Hygiene, P. E. 101, 102, 103	1	1	1
†Business English, Public Speaking, Eng. 211, 231, and elective English	3	3	3
Qualitative and Quantitative Analysis, Chem. 211, 212, 213	4	4	4
Calculus I, II, III, Math. 201, 202, 303	4	4	4
Physics for Engineers, Phys. 201, 202, 203	4	4	4
Introduction to Chemical Engineering, Chem. E. 201, 202, 203	1	1	2
Shopwork, M. E. 122, 123	1	1	0
*Military Science II, Mil. 201, 202, 203	2	2	2
Physical Education, P. E. 201, 202, 203	1	1	1

Major in Civil Engineering

Composition, Eng. 101, 102, 103	3	3	3
General Inorganic Chemistry, Chem. 101, 102, 103	4	4	4
Algebra, Trigonometry, Analytics, Math. 101, 102, 103	6	6	6
Engineering Drawing II, Descriptive Geometry, M. E. 105, 106, 107	3	3	3
*Military Science I, Mil. 101, 102, 103	2	2	2
Physical Education and Hygiene, P. E. 101, 102, 103	1	1	1
**Business English, Public Speaking, Eng. 211, 231, and elective English	3	3	3
Calculus I, II, III, Math. 201, 202, 303	4	4	4
Physics for Engineers, Phys. 201, 202, 203	4	4	4
Engineering Geology, Engineering Mechanics, Geol. 220, E. M. 311, 312	3	3	3
Theoretical Surveying, C. E. 221, 222, 223	3	3	3
Field Surveying, C. E. 225, 227	1	0	1
Mapping, C. E. 226	0	1	0
*Military Science II, Mil. 201, 202, 203	2	2	2
Physical Education, P. E. 201, 202, 203	1	1	1
Surveying, C. E. s310, 3 credits	Summer		

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* Or six credits in one or two of the following departments: Economics, Ethics and Religion, History and Political Science, Modern Languages, Psychology, Sociology.

† Students who have been certified by the Department of English as proficient in English may substitute for the courses listed Elementary German, M. L. 103, 104, 203 or equivalent.

** Students who have been certified by the Department of English as proficient in English may substitute for the courses listed Elementary French, M. L. 101, 102, 201 or equivalent.

Major in Electrical Engineering

Courses	Terms and Credits F	W	S
Composition, Eng. 101, 102, 103	3	3	3
General Inorganic Chemistry, Chem. 101, 102, 103	4	4	4
Algebra, Trigonometry, Analytics, Math. 101, 102, 103	6	6	6
Engineering Drawing II, Descriptive Geometry, M. E. 105, 106, 107	3	3	3
*Military Science I, Mil. 101, 102, 103	2	2	2
Physical Education and Hygiene, P. E. 101, 102, 103	1	1	1
Surveying, C. E. s200, 3 credits	Summer		
†Business English, Public Speaking, Eng. 211, 231, and elective English	3	3	3
Calculus I, II, III, Math. 201, 202, 303	4	4	4
Physics for Engineers, Phys. 201, 202, 203	4	4	4
General Economics, Econ. 201, 202, 203	3	3	3
Electrical Engineering Fundamentals, Forge and Welding, E. E. 201, 202, M. E. 128	3	3	3
Military Science II, Mil. 201, 202, 203	2	2	2
Physical Education, P. E. 201, 202, 203	1	1	1

Major in General Engineering

Composition, Eng. 101, 102, 103	3	3	3
General Inorganic Chemistry, Chem. 101, 102, 103	4	4	4
Algebra, Trigonometry, Analytics, Math. 101, 102, 103	6	6	6
Engineering Drawing II, Descriptive Geometry, M. E. 105, 106, 107	3	3	3
*Military Science I, Mil. 101, 102, 103	2	2	2
Physical Education and Hygiene, P. E. 101, 102, 103	1	1	1
Surveying, C. E. s200, 3 credits	Summer		
†Business English, Public Speaking, Eng. 211, 231, and elective English	3	3	3
Calculus I, II, III, Math. 201, 202, 303	4	4	4
Physics for Engineers, Phys. 201, 202, 203	4	4	4
‡Electives	6	6	6
*Military Science II, Mil. 201, 202, 203	2	2	2
Physical Education, P. E. 201, 202, 203	1	1	1

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*Or six credits in one or two of the following departments: Economics, Ethics and Religion, History and Political Science, Modern Languages, Psychology, Sociology.

† Students who have been certified by the Department of English as proficient in English may substitute Modern Language for the courses listed.

‡ Free electives, except that not more than 39 term credits may be chosen from the technical or special technical courses in the School of Engineering.

Major in Geological Engineering

Courses	Terms and Credits F	W	S
Composition, Eng. 101, 102, 103	3	3	3
General Inorganic Chemistry, Chem. 101, 102, 103	4	4	4
Algebra, Trigonometry, Analytics, Math. 101, 102, 103	6	6	6
Engineering Drawing II, Descriptive Geometry, M. E. 105, 106, 107	3	3	3
*Military Science I, Mil. 101, 102, 103	2	2	2
Physical Education and Hygiene, P. E. 101, 102, 103	1	1	1
†Business English, Public Speaking, Eng. 211, 231, and elective English	3	3	3
Qualitative and Quantitative Analysis, Geomorphology, Chem. 211, 212, Geol. 223	4	4	3
Calculus I, II, III, Math. 201, 202, 303	4	4	4
Physics for Engineers, Phys. 201, 202, 203	4	4	4
Engineering and Historical Geology, Mineralogy, Geol. 220, 222, 230	3	3	3
*Military Science II, Mil. 201, 202, 203	2	2	2
Physical Education, P. E. 201, 202, 203	1	1	1

Major in Industrial Engineering

Composition, Eng. 101, 102, 103	3	3	3
General Inorganic Chemistry, Chem. 101, 102, 103	4	4	4
Algebra, Trigonometry, Analytics, Math. 101, 102, 103	6	6	6
Engineering Drawing II, Descriptive Geometry, M. E. 105, 106, 107	3	3	3
*Military Science I, Mil. 101, 102, 103	2	2	2
Physical Education and Hygiene, P. E. 101, 102, 103	1	1	1
†Business English, Public Speaking, Eng. 211, 231, and elective English	3	3	3
Calculus I, II, III, Math. 201, 202, 303	4	4	4
Physics for Engineers, Phys. 201, 202, 203	4	4	4
General Economics, Econ. 201, 202, 203	3	3	3
Shopwork, M. E. 124, 125, 126	2	2	2
Industrial Organization, I. E. 101, 102, 103	3	3	3
*Military Science II, Mil. 201, 202, 203	2	2	2
Physical Education, P. E. 201, 202, 203	1	1	

*Or six credits in one or two of the following departments: Economics, Ethics and Religion, History and Political Science, Modern Languages, Psychology, Sociology.

†Students who have been certified by the Department of English as proficient in English may substitute Modern Language for the courses listed.

Major in Industrial Engineering

(Furniture Option)

Courses	Terms and Credits F	W	S
Composition, Eng. 101, 102, 103	3	3	3
General Inorganic Chemistry, Chem. 101, 102, 103	4	4	4
Algebra, Trigonometry, Analytics, Math. 101, 102, 103	6	6	6
Engineering Drawing II, Descriptive Geometry, M. E. 105, 106, 107	3	3	3
*Military Science I, Mil. 101, 102, 103	2	2	2
Physical Education and Hygiene, P. E. 101, 102, 103	1	1	1
†Business English, Public Speaking, Eng. 211, 231, and elective English	3	3	3
Calculus I, II, III, Math. 201, 202, 303	4	4	4
Physics for Engineers, Phys. 201, 202, 203	4	4	4
General Economics, Econ. 201, 202, 203	3	3	3
Shopwork, M. E. 124, 125 ,126	2	2	2
Industrial Organization, I. E. 101, 102, 103	3	3	3
*Military Science II, Mil. 201, 202, 203	2	2	2
Physical Education, P. E. 201, 202, 203	1	1	1

* Or six credits in one or two of the following departments: Economics, Ethics and Religion, History and Political Science, Modern Languages, Psychology, and Sociology.

† Students who have been certified by the Department of English as proficient in English may substitute Modern Language for the courses listed.

Major in Mechanical Engineering

Courses	Terms and Credits F	W	S
Composition, Eng. 101, 102, 103	3	3	3
General Inorganic Chemistry, Chem. 101, 102, 103	4	4	4
Algebra, Trigonometry, Analytics, Math. 101, 102, 103	6	6	6
Engineering Drawing II, Descriptive Geometry, M. E. 105, 106, 107	3	3	3
*Military Science I, Mil. 101, 102, 103	2	2	2
Physical Education and Hygiene, P. E. 101, 102, 103	1	1	1
Surveying, C. E. s200, 3 credits	Summer		
†Business English, Public Speaking, Eng. 211, 231, and elective English	3	3	3
Calculus I, II, III, Math. 201, 202, 303	4	4	4
Physics for Engineers, Phys. 201, 202, 203	4	4	4
Mechanical Drawing, M. E. 211, 212, 213	2	2	2
Shopwork, M. E. 124, 125, 126	2	2	2
Engineering Mechanics, E. M. 311, 312	0	3	3
*Military Science II, Mil. 201, 202, 203	2	2	2
Physical Education, P. E. 201, 202, 203	1	1	1

* Or six credits in one or two of the following departments: Economics, Ethics and Religion, History and Political Science, Modern Languages, Psychology, Sociology.

† Students who have been certified by the Department of English as proficient in English may substitute Modern Language for the courses listed.

TEACHER EDUCATION

For Teachers of Vocational Agriculture

Courses	Terms and Credits F	W	S
Composition, Eng. 101, 102, 103	3	3	3
Alg., Trig., and Phys. Geol., Math. 111, 112, Geol. 120	4	4	4
U. S. Hist., and Am. Govt., Hist. 121, 122, Pol. Sc. 211	3	3	3
Gen. Bot., or Gen. Zool., Bot. 101, 102, or Zool. 101, 102	0	4	4
Gen. Field Crops or Int. to An. Ind., F. C. 101 or A. I. 101	4	0	0
Int. to An. Ind., or Gen. Field Crops, A. I. 101 or F. C. 101	0	4	0
Gen. Hort. or Gen. Poult., Hort. 101 or Poul. 101	0	0	4
Int. to Ag., Ag. 101	1	0	0
*Mil. Sc. I, Mil. 101, 102, 103	2	2	2
Physical Education and Hyg., P. E. 101, 102, 103	1	1	1
English, elective	0	3	3
Gen. and Org. Chem., Chem. 201, 202, 203	5	5	5
Gen. Zool., or Gen. Bot., Zool. 101, 102 or Gen. Bot. 101, 102	4	4	4
Gen. Poul. or Gen. Hort. and Physics, Poul. 101 or Hort. 101, Phys. 115	4	4	5
Rur. Soc., or Ag. Econ. or Eng. elec., Rur. Soc. 201, Ag. Ec. 202 or Eng. elec.	3	0	3
Ag. Econ. or Rur. Soc., Ag. Econ. 202 or Rur. Soc. 201	0	3	0
Ag. Eng. or Soils, Ag. Eng. 202 or Soils 202	0	4 or 5	0
Soils or Ag. Eng., Soils 202 or Ag. Eng. 202	4	0	4 or 5
*Mil. Sc. II, Mil. 201, 202, 203	2	2	2
Physical Education, P. E. 201, 202, 203	1	1	1

For Teachers of Industrial Arts and Teachers of Industrial Education

Courses	Terms and Credits F	W	S
Composition, Eng. 101, 102, 103	3	3	3
General Inorganic Chemistry, Chem. 101, 102, 103	4	4	4
Algebra, Trigonometry, Mathematics of Finance, Math. 111, 112, 113	4	4	4
Industrial Arts Drawing, Ed. (I. A.) 105a, b, c	3	3	3
Industrial Arts, Ed. (I. A.) 106a, b, c	3	3	3
*Military Science I, Mil. 101, 102, 103	2	2	2
Physical Education and Hygiene, P. E. 101, 102, 103	1	1	1
Business English, Public Speaking, English Elective, Eng. 211, 231	3	3	3
Physics for Textile Students, Phys. 111, 112, 113	4	4	4
Economic History, Hist. 101, 102, 103	3	3	3
General Sociology, Soc. 202, 203	3	3	0
Industrial Arts Design, Ed. (I. A.) 205	0	0	3
Laboratory Problems in Industrial Arts, Ed. (I. A.) 206a, b, c	3	3	3
*Military Science II, Mil. 201, 202, 203	2	2	2
Physical Education, P. E. 201, 202, 203	1	1	1

* Or six credits in one or two of the following departments: Economics, Ethics and Religion, History and Political Science, Modern Languages, Psychology, and Sociology.

TEXTILES

Majors in Textile Manufacturing, Textile Chemistry and Dyeing, Yarn Manufacturing, Tetxile Management, Weaving and Designing, Knitting.

Courses	Terms and Credits F	W	S
Composition, Eng. 101, 102, 103	3	3	3
Algebra, Trigonometry, Mathematics of Finance, Math. 111, 112, 113	4	4	4
Physics for Textile Students, Phys. 111, 112, 113	4	4	4
Shopwork, M. E. 121, 122, 123	1	1	1
Engineering Drawing I, M. E. 101, 102, 103	2	2	2
Textile Principles Laboratory, Tex. 101, 102, 103	1	1	1
Yarn Calculations, Cloth Calculations, Tex. 105, 131	1	0	2
Military Science I, World Hist., or Hum. Rel., Mil. 101, 102, 103 or Hist. 111, 112, 113 or Soc. 101, 102, 103	2	2	2
Physical Education and Hygiene, P. E. 101, 102, 103	1	1	1
General Inorganic Chemistry, Chem. 101, 102, 103	4	4	4
Economic History, Hist. 101, 102, 103	3	3	3
English or Mod. Language	0	3	3
Decorative Drawing, Light in Industry, Arch. 106, Phys. 311	3	0	3
Knitting Laboratory, Tex. 207, 208, 209	1	1	1
Knitting I, Tex. 211	2	0	0
Power Weaving, Tex. 234	0	2	0
Power Weaving Laboratory, Tex. 231, 232	1	1	0
Fabric. Struc., and Anal., Tex. 235, 236	2	0	0
Yarn Manufacturing, Tex. 205	0	0	3
Yarn Manufacturing Laboratory, Tex. 201, 202	1	1	0
*Military Science II, Mil. 201, 202, 203	2	2	2
Physical Education, P. E. 201, 202, 203	1	1	1

* Or six credits in one or two of the following departments: Economics, Ethics and Religion, History and Political Science, Modern Languages, Psychology, Sociology.

THE SCHOOL OF AGRICULTURE AND FORESTRY

Leonard David Baver, Dean and Director of Instruction and Director of the Agricultural Experiment Station

Carey H. Bostian, Assistant Director of Instruction

Organization. The School of Agriculture and Forestry is organized in three divisions—Resident Instruction, Agricultural Extension and the Agricultural Experiment Station—to carry on the functions of instruction, extension and research. These divisions are organized as departments as follows: (a) Agricultural Economics, including Farm Marketing and Farm Management; (b) Agricultural Engineering, including Farm Structures and Farm Machinery; (c) Agronomy, including Field Crops, Soils, and Plant Breeding; (d) Animal Industry, including Animal Husbandry, Animal Nutrition, Dairy Production, and Dairy Manufacturing; (e) Botany, including Bacteriology, Plant Physiology, and Plant Diseases; (f) Chemistry; (g) Experimental-Statistics; (h) Forestry, including Silviculture, Utilization, and Management; (i) Horticulture, including Pomology, Small-Fruit Culture, Floriculture, Truck Farming, and Landscape Architecture; (j) Poultry Science, including Poultry Diseases, Poultry Breeding, Poultry Feeding, and Poultry Management; (k) Rural Sociology; (l) Zoölogy, including Genetics, Entomology, Animal Physiology, and Wild Life Management.

Purpose.—The purpose of the School of Agriculture and Forestry is threefold: (1) To obtain through scientific research, experimentation, and demonstration accurate and reliable information relating to soils, plants, and animals, and to obtain from every available source reliable statistical, technical, and scientific data relating to every phase of agriculture that might be of advantage to the State; (2) to provide instruction in the College for young men who desire to enter the field of general agriculture, or wish to become professionals in agricultural education or specialists in any field of science related to agriculture; (3) to disseminate reliable information through publications and through extension agents, and by a wise use of this information to give instruction to agricultural workers in the scientific, experimental, and practical progress in the various lines of agriculture.

All effective instruction in agriculture is based on research and investigation; and the curricula are so organized that not only the subject matter for classroom instruction and extension work may be drawn from research, experimentation, and demonstration, but also that the students themselves shall have the opportunity to work under the direction of research specialists.

Admission; Advanced Standing. Regulations for admission and for advanced standing are stated under Information for Applicants. (See pages 22 26.)

Curricula.—The curricula of the School of Agriculture and Forestry are designed to meet both the practical and technical needs of the student. Moreover, the curricula provide for a broadened education by requiring

certain courses and making it possible to elect others in language, literature, social sciences and the humanities.

The following curricula are offered:

A. GENERAL CURRICULUM IN AGRICULTURE

This curriculum is designed to give the student a broad training in the field of agriculture and at the same time permit him to major in the field of a particular interest. The student choosing this curriculum may elect to major in any Department of the School of Agriculture and Forestry, except Agricultural Chemistry, Agricultural Engineering, Experimental Statistics, and Forestry.

Students taking this curriculum can find professional opportunities in agricultural extension work, on the staffs of State and Federal agricultural agencies, and as farmers, farm managers, inspectors of agricultural commodities, and specialists in agricultural industries and services.

The detailed requirements for the first two years and a summary of the requirements for the upper two years are shown below. A minimum of 233 term credits and 233 honor points is required for graduation. The term credits should be distributed as follows: A maximum of 50 hours, exclusive of the first two years, in the major department; a minimum of 18 in Language, 48 in natural and physical sciences, 24 in Social Science, 12 in Military Science or alternative and 6 in Physical Education.

A. GENERAL CURRICULUM IN AGRICULTURE

(For majors† in any department of the School of Agriculture except Agricultural Engineering, Chemistry, Experimental Statistics, and Forestry.)

Freshman Year

COURSES	Terms and Credits F	W	S
Composition, Eng. 101, 102, 103	3	3	3
Algebra and Trigonometry, Math. 111, 112	4	4	0
History of the U. S. and Am. Govt. and Pol. Science, Hist. 121, 122, 211	3	3	3
Physical Geology, Geol. 120	0	0	4
General Botany, Bot. 101, 102 or Gen. and Economic Zoology, 101, 102	0	4	4
General Field Crops, F. C. 101 or Intro. to Animal Indus., A. I. 101	1	0	0
Intro. to Animal Industry, 101 or Gen. Field Crops, F. C. 101	0	4	0
Gen. Horticulture, Hort. 101 or Gen. Poultry, Poul. 101	0	0	4
Intro. to Agriculture, Agric. 101	1	0	0
*Military Science I, Mil. 101, 102, 103	2	2	2
Fundamental Activities and Hygiene, P. E. 101, 102, 103	1	1	1
	18	21	21

Sophomore Year

COURSES	Terms and Credits F	W	S
General Inorganic and Organic Chemistry, Chem. 201, 202, 203	5	5	†5
General and Economic Zool., Zool. 101, 102 or General Botany, Bot. 101, 102	4	4	0
Physics for Agric. Students, Physics 115	0	0	†5
General Poultry, Poul. 101 or General Horticulture, Hort. 101	4	0	0
Public Speaking, English 231	0	0	3
Rural Sociology, Rural Soc. 201 or Agric. Economics, Agr. Econ. 202	3	0	0
Agric. Economics, Agric. Econ. 202 or Rural Sociology, Rural Soc. 201	0	3	0
Farm Equipment, Agr. Eng. 202 or Soils, Soils 202	0	4 or 5	0
Soils, Soils 202 or Farm Equipment, Agr. Eng. 202	0	0	†4 or 5
*Military Science II, Mil. 201, 202, 203	2	2	2
Sports Activities, P. E. 201, 202, 203	1	1	1
	19	19 or 20	20 or 21

* Or six credits in one or two of the following departments: Economics, Ethics and Religion, History and Political Science, Modern Languages, Psychology, and Sociology.

† Majors will be chosen at the end of the fifth term. Students anticipating the desire to take a full year of Organic Chemistry or a full year of Physics may omit either or both of these five-hour courses and schedule courses from the upper two years. Soils or Agricultural Engineering may be postponed to the upper two years if the major selected makes some other course more essential at this point.

Junior and Senior Years

COURSES	Credit Hours
Elective in Social Science or Humanities	3
General Economics, Econ. 201, 202	6
Elective English	6
Principles of Forestry, Forestry 111	3
Major field	30-50
Agricultural Electives	10-30
*Restricted Electives	18
Free Electives	18

(A minimum of 233 credits is required for graduation.)

* Military Science, Social Sciences, Humanities, Natural and Physical Sciences.

B. SPECIALIZED CURRICULUM IN AGRICULTURE

This curriculum is designed for the students who desire to major in Agricultural Chemistry, Agricultural Engineering or Experimental Statistics, those students who want highly specialized work in any of the other Departments, and those students who are looking forward towards graduate study in preparation for research and teaching positions. A maximum of science and a minimum of general agriculture are provided to achieve this specialization. The student choosing this curriculum may elect to major in any Department of the School of Agriculture and Forestry.

The detailed requirements for the first two years and a summary of the requirements for the upper two years are shown below. A minimum of 240 term credits and 240 honor points is required for graduation. The term credits should be distributed as follows: A maximum of 50 hours, exclusive

of the first two years, in the major Department; a minimum of 27 in Language (except for Agricultural Engineering where the minimum will be 18), 74 in natural and physical sciences, 27 in Social Sciences, 18 in technical agriculture, 12 in Military Science or alternative, and 6 in Physical Education.

B. SPECIALIZED CURRICULUM IN AGRICULTURE

Majors in Agricultural Engineering, Agricultural Chemistry, Experimental Statistics, or any other department in the School of Agriculture.

Freshman Year

COURSES	Terms and Credits F	W	S
Composition, English, 101, 102 103	3	3	3
General Inorganic Chemistry, Chem. 101, 102, 103	4	4	4
Algebra, Trigonometry, Analytics, Math. 101, 102, 103	6	6	6
†History of the U. S. and Am. Govt. and Pol. Science, Hist. 121, 122, 211 or Engineering Drawing II, Descriptive Geometry, M. E. 105, 106, 107	3	3	3
Introduction to Agriculture, Agric. 101	1	0	0
*Military Science I, Mil. 101, 102, 103	2	2	2
Fundamental Activities and Hygiene, P. E. 101, 102, 103	1	1	1
	20	19	19

Sophomore Year

	Terms and Credits F	W	S
Physics for Engineers, Phys. 201, 202, 203 or Elective Chemistry	4	4	4
Gen. Botany, Bot. 101, 102 or Gen. and Econ. Zool., Zool. 101, 102	4	4	0
Elective English and Public Speaking, English 231	3	3	3
Physical Geology, Geol. 120	0	0	4
Electives (see footnote following Junior and Senior years	7	7	7
*Military Science II, Mil. 201, 202, 203	2	2	2
Sports Activities, P. E. 201, 202, 203	1	1	1
	21	21	21

† Students who do not anticipate taking more than one year of Chemistry will take Chem. 201, 202, 203.

‡ These three terms of History must be taken later if omitted at this time.

* Or six hours in one or two of the following departments: Economics, Ethics and Religion, History and Political Science, Modern Languages, Psychology, and Sociology.

Junior and Senior Years*

	Credit Hours
Major Department	30-50
Natural Science (other than major)	20
Foreign Language	9
General Economics, Econ. 201, 202	6
Electives in Social Science	12
Free Electives	19-42
	116-119

* A minimum of 18 hours of technical agriculture must be taken among electives of second, third, and fourth years. In Agricultural Engineering free electives may be substituted for the foreign language. A minimum of 240 credits is required for graduation.

C. CURRICULUM IN DAIRY MANUFACTURING

(See Pages 72, 73.)

D. CURRICULUM IN FORESTRY

(See Page 77.)

E. CURRICULUM IN LANDSCAPE ARCHITECTURE

(See Pages 80, 81.)

F. CURRICULUM IN WILDLIFE CONSERVATION AND MANAGEMENT

(See Pages 85, 86.)

Degrees.—The degrees of Bachelor of Science in Agriculture and Bachelor of Science in Forestry are conferred upon the satisfactory completion of one of the curricula in this School.

The degree of Master of Science in Agriculture is offered for the satisfactory completion of one year of graduate study in residence. Candidates for this degree are enrolled as students in the Graduate School.

The professional degree of Master of Agriculture may be conferred upon graduates of State College after five years of service in agriculture, and upon the acceptance of a satisfactory thesis.

Short Courses.—These courses vary in length from a few days to eight weeks. They are designed for young people who desire some training in the principles of agriculture, but who find it impossible to take the regular college course, and for mature individuals who wish to become familiar with the most recent agricultural practices. It is the aim of these courses to make better farmers to help them produce better fruit, vegetables, livestock, and poultry, and to obtain greater satisfaction and profit from the time, energy, and money expended.

In these courses students will receive instruction from the best professors and will use all the facilities of the School of Agriculture. Most of the courses will be given during the winter months, and a bulletin will be issued each fall announcing the courses which will be offered during the following months. This bulletin and other information about the short courses may be secured by writing to the Director of Short Courses, College Extension Division, State College Station, Raleigh, N. C.

AGRICULTURAL ECONOMICS

Professor G. W. Forster, Head of Department
Professors Martin A. Abrahamsen, C. Horace Hamilton, H. Brooks James, Marc C. Leager; Associate Professors Richard L. Anderson, R. E. L. Greene; Research Assistant Professor W. Henry Pierce; Instructor, Margaret K. Fleming

The Department of Agricultural Economics is concerned with all of the economic problems of the farmer, such as organization and management of the farm, farm mechanization, marketing and the processing of farm products, farm credit, landlord tenant relations, and public policies affecting agriculture. To perform its various functions the Department is divided into two divisions farm organization and management, and farm marketing and farm finance. Each of these divisions is under the direction of a division chief, or leader, who supervises work in research, teaching, and extension.

Facilities.—The Department is located on the second floor of Patterson Hall. It is well equipped with calculating machines and other facilities used in preparing material for farmers' use. Charts on every phase of agricultural economics are available for use of students and for other purposes. A large number of maps of actual farms are used as a basis for studying and for illustrating the principles and practices of farm management. The results of research in marketing, agricultural finance, taxation, insurance, and soil conservation practices have made a large volume of statistical information constantly available for undergraduate and graduate students. Maintained for reference is an up to date file of bulletins and documents covering all phases of agricultural economics.

Specialization.—Students in Agricultural Economics may specialize in Farm Business Administraion, Marketing and Finance, or any other phase of farm economics, depending upon the need and desire of the student. A student may undertake specialization at the end of the sophomore year but his course of study must have the approval of the Head of the Department. Those who intend to pursue work in Agricultural Economics should, during their freshman and sophomore years, give special attention to courses in economics, accounting, statistics, and mathematics. Students may major in either the General Curriculum in Agriculture (see page 62) or the Specialized Curriculum in Agriculture. (See page 64).

Opportunities.—There is a wide range of opportunities for students in Agricultural Economics. Graduates of the Department are engaged in college teaching, research and extension work, commerce, finance, business, and diplomatic service. Specific information as to opportunities and salaries will be supplied on request.

AGRICULTURAL ENGINEERING

Professor David S. Weaver, Head of the Department

Professor G. Wallace Giles

Associate Professor Norman C. Teeter

Purpose.—This curriculum has been arranged to give its graduates fundamental training in engineering, basic training in the agricultural sciences, and a specialized study in courses involving the application of engineering knowledge to agricultural problems.

Breadth of Training.—Because of the great variety of work required of agricultural engineers, a number of subjects peculiar to other curricula are included, so that the student receives a considerable breadth of training. Engineering principles applied to agriculture have played an important part in the advancement and development of agricultural practices. Agricultural engineering as a profession, although of comparatively recent development, is rapidly becoming recognized as one of the more important of the engineering professions, since it is identified with the most important of industries agriculture. This course is especially suited to the student brought up on the farm who has mechanical inclination, as it prepares him for a profession, a business, or a career in farming, and enables him to capitalize on his farm experience.

Divisions.—Subdivided on the basis of engineering technique. Agricultural Engineering embraces three general fields: (1) Power and Machinery, including Rural Electrification; (2) Rural Structures, which includes materials and methods of construction sanitation and building equipment; (3) Land Improvement, which includes Irrigation, Drainage, Soil-Erosion Control, and other forms of mechanical improvement of agricultural lands.

Occupations Open to Graduates.—Teaching, experiment station and extension-service positions with colleges and the Government; engineers in land reclamation, drainage, or irrigation enterprises; designing, advertising, sales and production work with manufacturers of farm machinery, equipment, and building mtaerials; rural electrification work; editorial work with publishers; appraisal; and agricultural-engineering consultant service.

Equipment.—The offices, classrooms, and shops used in Agricultural Engineering are in the Agricultural Engineering Building. The laboratories have the latest labor-saving farm equipment for seedbed preparation, planting, cultivating, harvesting, and crop preparation. These machines are furnished by the leading farm-machinery manufacturers, and are replaced from time to time as improvements are developed. Special effort is made to have on hand all types of equipment for use in the best practices in the production of farm crops.

The Farm Buildings Laboratory is equipped with drawing tables, supply cabinets, and models of various types of farm-buildings construction.

Laboratory Equipment for Land Improvement consists of sets of surveying instruments, drafting tables, calculating equipment and field machines for this type of work.

Practice.—Field areas in crops, vineyards, orchards and pastures are available for practice in the use of farm equipment, and in drainage and erosion control.

A Bulletin Library of Agricultural Engineering is maintained for student reference.

CURRICULUM IN AGRICULTURAL ENGINEERING

The curriculum for Freshman and Sophomore Years in Agricultural Engineering is shown under "Curriculum B" given on page 64 of this catalog.

Junior and Senior Curricula

Prior to registration for the Junior Year, the student must select one of the following four Options into which the work of the Junior and Senior Years has been divided: Rural Structures, Land Improvements, Power and Machinery, and General.

The Following Courses Are Required Of All Students Majoring in This Department Regardless of the Option:

Junior Year

COURSES	Credit
General Economics, Economics 201, 202	6
Agricultural Economics, Ag. Economics 202	3
Terracing and Drainage, Ag. Engineering 303	3
Farm Shop, Ag. Engineering 331, 332	6
General Field Crops, Field Crops 101	3
General Horticulture, Horticulture 101	3
Farm Buildings, Ag. Engineering 322	3

Senior Year

COURSES	Credit
Rural Electrification, Ag. Engineering 432	3
Special Problems in Agricultural Engineering, Ag. Engineering 481	3
Senior Seminar, Ag. Engineering 491, 492, 493	3
Farm Management I, Ag. Economics 303	3
Technical Writing I, English 321	3
Rural Sociology, Rural Sociology 201	3

A list of the other courses necessary to complete the curriculum so as to fulfill the requirements shown on page 64 may be obtained by writing the Head of the Department of Agricultural Engineering and specifying the Option in which the student is interested. A minimum of 240 credits is required for graduation.

AGRONOMY

Professor R. W. Cummings, Head of the Department

Professor Emeritus C. B. Williams

The teaching in this department is divided into two sections: Field Crops Section and Soils Section. Its objective is to provide a well-rounded practical as well as technical training for students in field crops, plant breeding, soils, fertilizers and other closely related subjects.

The combined facilities of the Consolidated University and of the Experiment Station provide excellent opportunities for advanced training leading to M.S. and Ph.D. degrees in Agronomy.

The advanced courses offered fulfill the needs of graduate work in all phases of Agronomy.

FIELD CROPS SECTION

Professor G. K. Middleton, Head of Section

Professors R. L. Lovvorn, J. A. Rigney; Associate Professor B. W. Smith;

Assistant Professor W. C. Gregory

Field crops are of importance in North Carolina as a major source of farm income, as feed for livestock, and for use in soil conservation and soil improvement practices. Soil and climatic variations are such that a wide diversity of crops is grown, making this an ideal state in which to study crop production.

Opportunities in plant improvement are also recognized and the curriculum is set up to give instruction in both crop production and plant breeding. The curriculum is flexible, making it possible for students to elect sufficient courses in other departments for a general training in agriculture or for specialization in preparation for graduate work in Agronomy.

The more general training will equip students for work with the Agricultural Extension Service or with one of the several agencies administered by the United States Department of Agriculture; or as better farmers. Students interested in preparing themselves for one of these fields of endeavor should take the General Curriculum in Agriculture given on page 62 during the first two years.

Advanced training is provided for those who desire to go into the more technical phases of crop production or plant breeding, such as teaching or research in State or Federal institutions. Students who know before entering college that they plan to take this advanced training should follow the Specialized Curriculum in Agriculture given on page 64.

Junior and Senior Curricula

See pages 62 or 64 for Freshman and Sophomore curricula*

The following courses will be required of students in either the General or Specialized Curriculum:

COURSES	Credit
Southern Field Crops, F. C. 303	5
Plant Breeding, F. C. 102	3
Pastures and Forage Crops, F. C. 403	5
Soil Fertility and Fertilizers, Soils 301	5
Soil Classification, Soils 302	3
Genetics, Zool. 411	5
Plant Physiology, Bot. 221	5
Diseases of Field Crops, Bot. 301	3

Additional courses must be selected from a list approved by the department to satisfy the requirements listed on pages 62 and 64 for the curriculum in General or Specialized Agriculture, respectively.

SOILS SECTION

Professor J. F. Lutz, Head of Section

Professor R. W. Cummings; Associate Professors E. R. Collins, W. D. Lee; Assistant Professor J. R. Piland

The soil is a natural body composed of mineral and organic matter, air, water, and living micro-organisms. The reactions of and changes in these components extend into the fields of chemistry, geology, physics and biology, which sciences are fundamentals to soils. No state in the Union offers better opportunities for soil and fertilizer studies than North Carolina for within her borders are soils derived from a large variety of parent materials and developed under climatic conditions varying from a subtropical climate in the southeastern part of the state to the cooler climates of the mountains. This state has been one of the few which has steadily pushed forward her soil-survey work so that now county soil-survey reports and maps are available for practically all the counties of the entire state.

The importance of soils in North Carolina agriculture is evidenced by the fact (1) that more fertilizer is used in North Carolina than in any other state in the Union and (2) that North Carolina ranks third among the states in cash income derived from farm crops.

The curriculum in Soils is made flexible, through a sufficient number of optional courses, to enable the student to prepare for (1) general agricultural work such as farmers, county agents, soil conservationists, and similar work, or (2) technical soils work such as teaching or research in State or Federal institutions. Those interested in the more technical phases should take the Specialized Curriculum in Agriculture given on page 64.

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* Students interested in graduate study or technical work in Field Crops should take the Specialized Curriculum in Agriculture.

Junior and Senior Curricula

See pages 62 or 64 for Freshman and Sophomore Curricula*

The following courses will be required of students in either the General or Specialized Curriculum:

COURSES	Credit
Soils 301, Soil Fertility and Fertilizers	5
Soils 312, Soil Classification	3
F. C. 303, Southern Field Crops	5
F. C. 403, Pastures and Forage Crops	5
Bot. 221, Plant Physiology	5
Zool. 411, Genetics	5

Additional courses must be selected, from a list approved by the Department, to satisfy the requirements listed on pages 62 and 64 for the curriculum in General or Technical Agriculture, respectively.

ANIMAL INDUSTRY

Professor J. H. Hilton, Head of the Department

Professors R. H. Ruffner, E. H. Hostetler, W. J. Peterson, W. L. Clevenger, J. E. Foster, D. E. Brady, F. M. Haig, C. D. Grinnells; Research Associate Professors W. M. Roberts, H. A. Stewart; Assistant Professors T. N. Blumer, J. C. Pierce, Jr.; Research Assistant Professor J. P. Ammerman, Jr.; Instructor M. L. Shumaker.

The curriculum in Animal Industry is designed to train students in various phases of animal husbandry and dairying. The department is housed in Polk Hall, a three story building, which was designed to meet the needs of college teaching, research, and extension work in animal production and dairy manufacturing.

In the basement of Polk Hall are two wings, one of which is devoted to Dairy Manufacturing, and the other to Farm Meats and Food Processing. The dairy laboratories have recently been remodeled and equipped with the most modern machinery available for teaching and research in the processing and distribution of market milk, ice cream, butter, cheese and other dairy products.

The Farm Meats and Food Processing laboratories have just been remodeled and expanded, making them among the most modern and up-to-date of any in the country.

The upper floors of the building contain offices, classrooms, library and laboratories, in dairy bacteriology, dairy chemistry, animal nutrition, animal breeding and meats. Extension specialists in swine, dairy, beef cattle, and sheep have offices in this building.

In addition, the Department of Animal Industry maintains three livestock farms located a few miles from the college.

* Students interested in graduate study or technical work in Soils should take the Specialized Curriculum in Agriculture listed on page 64.

The dairy farm contains 600 acres. Two fire-proof, completely equipped dairy barns house 140 registered Jerseys, Guernseys, and Holsteins. A herd of registered Ayrshires is maintained in the College Experiment Station Dairy nearby. The animal husbandry farm, adjoining the dairy farm, contains 1100 acres. Here, registered and commercial herds of swine, sheep, horses, and beef cattle are maintained for research and teaching.

Studnts wishing to specialize in Animal Industry may do so after completing either Curriculum A or Curriculum B in the Basic Division. Two curricula are offered in the department—one in Animal Industry, the other in Dairy Manufacturing. Students specializing in Animal Industry after completing Curriculum A in the Basic Division will be required to take not less than 36 hours of course work in the Animal Industry curriculum. These include: Types and Market Classes of Livestock; Judging and Selection (dairy cattle); Judging and Selection (general livestock); Animal Nutrition I and II; Livestock Production I, II, and III; Animal Breeding; and Livestock Practicums.

Students completing Curriculum B and wishing to specialize in some phase of Animal Science will elect courses in the Department of Animal Industry under the supervision of a faculty committee. Since this curriculum is very flexible, it makes it possible for students to specialize in preparation for graduate work in Animal Breeding, Nutrition, and other animal sciences.

Students wishing to specialize in Dairy Manufacturing will be required to take the courses listed in the special curriculum designed for Dairy Manufacturing, which is shown below.

C. CURRICULUM IN DAIRY MANUFACTURING

Freshman Year

Same as General Curriculum in Agriculture (See page 62).

Sophomore Year

COURSES	Terms and Credits F	W	S
Elective English and Public Speaking, Eng. 231	0	3	3
General Inorganic and Organic Chemistry C.hem. 201, 202, 203	5	5	5
General Economics, Econ. 201, 202	3	3	0
General Botany, Bot. 101 or General Zoology, Zool. 101	4	0	0
General Bacteriology, Bot. 312	0	0	4
General Poultry, Poul. 101 or General Horticulture, Hort. 101	4	0	0
Physics for Agric. Students, Physics 115	0	0	5
Agricultural Drawing, Agr. Eng. 222	0	3	0
*Military Science II, Mil. 201, 202, 203	2	2	2
Sports Activities, P. E. 201, 202, 203	1	1	1
	19	17	20

* Or six credits in one or two of the following departments: Economics, Ethics and Religion, History and Political Science, Modern Languages, Psychology, and Sociology.

Junior and Senior Years

COURSES	Credit
Elective in Social Science or Humanities	3
English Elective	3
Major Department	30-50
Agricultural Electives	10-30
*Restricted Electives	18
Free Electives	17
**Other Required Courses	16
	117

* Military Science, Social Science, Humanities, Natural and Physical Sciences.

** Accounting, Marketing, Animal Nutrition I, Livestock Production III, and Diseases of Farm Animals.

A minimum of 233 credits is required for graduation.

BOTANY

Professor B. W. Wells, Head of the Department

Professors D. B. Anderson, J. H. Jensen, S. G. Lehman, I. V. Shunk; Research Associate Professors C. N. Clayton, D. E. Ellis; Assistant Professors M. F. Buell, L. A. Whitford.

Equipment and Facilities

Location.—The Department of Botany occupies the second floor of Winston Hall.

Laboratories.—The laboratories are all equipped with projection lanterns. A well-organized herbarium supports the work in systematic botany and dendrology.

Greenhouses.—Ample greenhouse facilities are available for work in physiology and pathology.

Purpose.—The Department emphasizes those phases of plant science which are foundational for the work in Agriculture and Forestry.

Curricula.—In this department students may major in either the General Curriculum in Agriculture (see page 62) or the Specialized Curriculum in Agriculture (see page 64).

CHEMISTRY

Professor A. J. Wilson, Head of the Department
Professors L. F. Williams, G. H. Satterfield
Associate Professors W. E. Jordan, M. F. Showalter, W. A. Reid
Assistant Professors H. L. Caveness, P. P. Sutton, R. H. Loeppert, R. C. White
Instructors R. E. Gee, W. P. Ingram, J. W. Morgan, J. H. Ryan, J. W. Marek

Curriculum.—The Department of Chemistry does not offer a Bachelor of Science degree in Chemistry. However, a student may register in the School of Agriculture with a major in Agricultural Chemistry. This curriculum

affords extended courses of chemical training which will fit a graduate for positions such as those in State Experiment Stations, and in State and Federal laboratories for the inspection and control of fertilizers, feeds, foods, and other commodities, and as chemist in industrial plants.

Students planning to major in Agricultural Chemistry will select the Specialized Curriculum in Agriculture (see page 64). During the sophomore year Mathematics 201, 202, and 203 will be taken as part of the electives and Chemistry 211, 212, and 213 will be taken instead of Physics. During the Junior and Senior Years courses taken must include Physics for Engineers, Physics 201, 202, and 203, and Organic and Physical Chemistry. A minimum of 240 credits is required for graduation.

EXPERIMENTAL-STATISTICS

Professor Gertrude M. Cox, Head of the Department

Professors W. G. Cochran, J. A. Rigney; Associate Professors R. L. Anderson, J. M. Clarkson, H. L. Lucas, Paul Peach, J. Wolfowitz; Assistant Professors R. J. Monroe, H. F. Robinson; Instructors Margaret Fleming, Sarah Porter.

The extension of the use of statistics to more and more diverse fields of application has steadily increased since the first World War. Industry is placing increasing reliance on statistical methods to control the quality of goods in the process of manufacture and to determine the acceptability of goods already produced. Statistical procedures are becoming basic tools for making weather forecasts, crop and livestock estimates, business trend predictions, opinion polls and the like. Furthermore, all fields of research are fast realizing the importance of statistical aids in planning, analyzing and interpreting the results of investigations.

Organization.—The Department of Experimental-Statistics is a part of the Institute of Statistics. It provides instruction, consultation and computational service for all other departments of all schools in the college. The Agricultural Experiment Station receives assistance in designing experiments, analyzing, and interpreting results. Governmental agencies and other institutions use the facilities of the Department. The range and quantity of data handled furnish an excellent background for training students in the use of statistical procedures in such fields as the plant, animal and social sciences and industrial engineering.

Laboratory.—A laboratory equipped with the best faciilties available is maintained. Calculating machines, comptometers and International Business Machines are used constantly. Students have an opportunity to get actual experience in the use of these machines and to learn the types of data for which each is best suited.

Curriculum.—The curriculum in Experimental-Statistics is based on the Specialized Curriculum in Agriculture as shown on page 64 and provides for options in Plant Science, Animal Science, Agricultural Economics, and Rural Sociology.

FORESTRY

Professor J. V. Hofmann, Director of the Division
Professor L. Wyman
Associate Professors W. D. Miller, G. K. Slocum, J. W. Chalfant
Research Associate Professor C. M. Kaufman

Areas for Field Work.—Some of the field work of the Department of Forestry is now carried on at the **Camp Polk Prison Farm**, near the State Fair Grounds, which has 300 acres of timber land.

The George Watts Hill Demonstration Forest, near Durham, is a tract of 1,400 acres. It contains stands of short leaf and loblolly pine, oaks, gum, tulip, dogwood, and all of these species in different associations. A rolling terrain, it serves admirably for the study of forest problems in the Piedmont Section.

The Hofmann Forest.—A large tract of land in Jones and Onslow Counties, in the southeastern part of the State, consists of more than 80,000 acres and has the various types of timber found in this region. The large areas of virgin timber make a very complete laboratory for studying forest development and succession.

Total Areas.—In all, the Forestry Department has available about 82,000 acres on which to do field work, demonstration, and research. These areas include the various types found in North Carolina except those of the Mountain Region.

The Arboretum area of seventy acres near Raleigh is being developed to contain all of the tree species and associated shrubs that grow in this climatic condition. It contains swamp and upland which adapts it for this use. More than a hundred species have been planted in this area.

The Wood Technology Laboratory contains a representative collection of the more common woods and will be gradually extended.

The Timber-Testing Laboratory contains the machines for its work.

Greenhouse space is available for special problems in forest research.

Purposes of the Curriculum. The aims of the curriculum in Forestry are: (1) to train young men for work in the technical and applied fields of forestry on public or private forest land; (2) to give special training in fields of research; (3) to advance the knowledge of the entire profession.

Forestry as a Profession.—The profession of forestry is comparatively young in North Carolina. It began some forty years ago and has made remarkable progress during its first four decades of existence. The next decade promises more advancement and achievement than all the past, as the foundation has been laid; the building of the superstructure will depend upon the expertness of the builders. In the ranks of the builders are

included the United States Forest Service; State Forest Departments in a large number of States; corporations and lumber companies; individual land owners; last but by no means least, the farm woodlands.

Occupations. Students completing the Forestry course may look to the following fields of employment: United States Forest Service, the State Service, including not only North Carolina but especially the Southern States, and other State organizations; the lumber companies, timber-holding companies, corporations, and individuals. The forestry program in the State of North Carolina is very materially strengthened by the presence of the National Forests and the Appalachian Forest Experiment Station. These will be of direct aid in the study of forest-research problems, management problems and the organization and work of the National Forest Service.

Forest Management aims to make a forest property a permanent producing unit. All forestry is now being built on this basis.

Forest Utilization requires special courses dealing with the value and various uses of the products of the forest. During the third term of the senior year, field studies of woodworking industries, logging operations, paper and pulp mills, and problems in forest management take up most of the time.

Silviculture deals with the problems of producing a forest, such as selection of species, methods of reproduction, cutting systems. The work is becoming increasingly important as our virgin timber supply is depleted.

Research in Forestry is being recognized as important by all agencies in the fields of forestry. Men trained in research methods are needed in the Government Experiment Stations, State Experiment Stations, and private laboratories.

Graduation.—A minimum of 240 term credits with at least 240 honor points are required for graduation in Forestry.

The spring term of the junior year will be given on the Hofmann Forest, and will include timber measurement, timber cruising, and utilization.

Summer Instruction in Forestry.—The regular summer instruction in forestry for sophomores is given during the ten weeks immediately following the Commencement.

The expenses for the entire period are as follows:

Registration fee	$ 5.00
For each credit scheduled	3.00
Room and board (estimated)	50.00
Bus fee	22.00
Camp fee	5.00

The courses listed below for summer camp are required and carry the regular college credit as indicated. The work is carried on entirely in the field and the class is responsible for its own program of camp routine. The

students furnish their own board and any facilities other than the beds and housing. The registration in these courses is restricted to regularly enrolled students, unless a student is admitted as a special student under the same conditions that a special student would be allowed to take work in the regular courses.

D. CURRICULUM IN FORESTRY

Freshman Year

COURSES	Terms and Credits F	W	S
Composition, Eng. 101, 102, 103	3	3	3
Algebra, Trigonometry, Math. of Finance, Math. 111, 112, 113	4	4	4
General and Systematic Botany, Bot. 101, 102, 103	4	4	3
Drawing, C. E. 101, 102, 103	1	1	1
Elementary Forestry, For. 101		0	0
Introduction to Psychology, Psychol. 200	3	0	0
American Government and Political Science, Hist. 211	0	0	3
General and Economic Zoology, Zool. 101, 102	0	4	4
*Military Science I, Mil. 101, 102, 103	2	2	2
Fundamental Activities and Hygiene, P. E. 101, 102, 103	1		1
	21	18	21

Sophomore Year

COURSES	Terms and Credits F	W	S
General Economics, Econ. 201, 202	3	3	3
Physics for Agric. Students, Physics 115	3	0	0
Dendrology, Bot. 211, 213	3	0	3
General Inorganic and Organic Chemistry, Chem. 201, 2 2, 203	5	5	5
Wood Technology, For. 201 and Physical Geology, Geol. 120	3	4	0
Theoretical Surveying, C. E. 221, 222	0	3	3
Field Surveying, C. E. 225, and Topographic Drawing, C. E. 224	0	1	1
†Elective English	3	3	3
*Military Science II, Mil. 201, 202, 203	2	2	2
Sports Activities, P. E. 201, 202, 203	1	1	1
	19	19	21

Summer Camp

(Ten weeks at Hill Forest)

COURSES	Credits
Surveying and Mapping, C. E. s300	3
Dendrology, For. s214	2
Mensuration, For. s274	2
Silviculture, For. s204	3
For. Protection, Improvements, and Influences I, For. s244	2
	12

Junior and Senior Years

(Spring term of Junior Year at Hofmann Forest)

COURSES	Credits
†Elective English	6
Plant Physiology, Bot. 321 and Plant Ecology, Bot. 441	8
Economic Entomology, Zool. 213	4
Soils, Soils 202	5
Introduction to Exp. Statistics, Stat. 311	3
Land Economics, Agr. Econ. 212	3
Diseases of Forest Trees, Bot. 311	3
Electives in Social Science	6
Non-Forestry electives	21
Forestry courses	49
	108

* Or six credits in one or two of the following departments: Economics, Ethics and Religion, History and Political Science, Modern Languages, Psychology, and Sociology.

† Students who have been certified by the Department of English as proficient in English may substitute for the courses listed a modern language.

A minimum of 240 credits is required for graduation.

HORTICULTURE

Professor M. E. Gardner, Head of the Department

Professor G. O. Randall; Research Professor I. D. Jones; Associate Professor Robert Schmidt; Research Associate Professors E. B. Morrow, Otto Veerhoff, C. F. Williams; Extension Assistant Professor J. H. Harris.

The Field.—The production of tree fruits and nuts, small fruits and grapes, and floral crops, including bulbs, under glass and in the open requires intensive methods and suitable conditions from the standpoint of favorable sites, soils and climate. Since North Carolina extends from the Atlantic Ocean to the highest peak east of the Rockies, it is not difficult to find, somewhere within the borders of the state, almost ideal conditions for the production of practically all of the Horticultural crops grown in the temperate zone. In addition to these natural advantages, the nearness of large eastern markets and rapid transportation facilities place the state in an enviable position among the states of the Nation.

The Facilities. The department operates four greenhouses and two propagating houses with a total of thirteen thousand square feet under glass. A number of research projects with fruits, vegetables and ornamental plants are being conducted at the McCullers branch station near Raleigh and are available to students for observation and study. The same is true of floral and other crops grown in the greenhouses. The department library contains approximately twenty-five thousand technical and popular bulletins and periodicals covering all phases of Horticulture, and complete bound volumes of the Proceedings of the American Society for Horticultural Science, Horticultural Abstracts, Journal of Agricultural Research and others.

Land has recently been made available for the establishment of a new horticultural farm and student laboratory. Plans are being developed and planting and construction will begin in 1946. A modern laboratory for fruit and vegetable processing and utilization is under construction which will include quick-freezing facilities.

The Opportunities.—Students will have the choice of one of three options: Pomology, Vegetable Gardening or Floriculture. The curriculum in each will be flexible enough to permit the student to prepare himself for work in General Agriculture or Technical Agriculture. Those students who are interested in general agriculture should elect the General Curriculum in Agriculture outlined on page 62. This curriculum will provide training for those who are interested in becoming County Agents, fruit and vegetable growers, nurserymen, or in the production of greenhouse crops. A student interested in the more technical phases of Horticulture should register for the Specialized Curriculum in Agriculture on page 64. This will give a better background for graduate work and will lead to teaching and research positions with State Experiment Stations and Colleges, Federal agencies, or industries.

Juniors and Seniors

The following courses will be required of all students in either the General or Specialized curriculum:

COURSES	Credits
Zool. 411, Genetics	5
F. C. 402, Plant Breeding	3
Bot. 221, Plant Physiology	5
Soils 301, Soil Fertility and Fertilizers	5
Bot. 302, Diseases of Fruit Crops	3
or	
Bot. 303, Diseases of Vegetable Crops	3

Each student will have the privilege of specialization in Fruit, Vegetable or Flower growing at the beginning of the junior year. In addition to the courses listed as required, the student will schedule, with the approval of the Department, courses which will satisfy the requirements for specialization in his chosen field.

LANDSCAPE ARCHITECTURE

Professor J. P. Pillsbury, Head of the Division
Professor G. O. Randall

A comparative study of Landscape Architecture with architecture, the oldest art of design, will disclose the fact that distinct parallelism exists between these two fields of human endeavor. Not only in the character and extent of the training required in each case is this shown, but also in the division of work which takes place, and in the relations existing among those responsible for various parts of the work in the practice of these two closely associated professional fields.

Training in Landscape Architecture is a composite derived from the fine arts, certain branches of engineering, and ornamental horticulture. Properly, it is dominated by the principles of design, and therefore may be correctly classified as a fine art. Its province is the design of landscapes, the preparation of plans and specifications for them, and supervision during construction.

The Curriculum in Landscape Architecture is strictly undergraduate. Its purpose is to provide a broad and thorough foundation for the additional postgraduate training which the profession requires of those desiring to enter its ranks. It also presents an open door to the professional fields of city or regional planning as the student may elect when undertaking graduate work. The soundness of the curriculum here presented is attested not only by the fact that at no time has the demand for the services of its graduates been fully satisfied, but also by the successes of those who have pursued graduate training and attained to full rank in the professional field of Landscape Design.

Training in Landscape Construction is similar to that in Landscape Architecture, but with emphasis upon materials and methods of construction employed in engineering and ornamental horticulture.

Training in Landscape Gardening is essentially ornamental horticulture. In neither case is graduate work required, since their provinces will not include the design of landscape, but only the execution of plans under supervision in the one case, and the maintenance of the constructed landscape in the other. Students electing either of these two lines of study will, during their first two years, pursue the **Basic Curriculum in General Agriculture,** with two or three substitutions from other curricula, as indicated.

General Equipment and Special Facilities for instruction are ample in the combined resources of Civil and Architectural Engineering, Horticulture, and Landscape Architecture.

Plant Materials in extensive collections on the College grounds and at various points elsewhere within a short distance, furnish an ample supply of all kinds for both study and use. In addition, several notable collections are available for occasional visits and study.

The Material for **Landscape Design and Construction** available on College grounds, private properties, and numerous public and semipublic areas and institutions in and about Raleigh, provide a wide range of subjects for study and practice. The City of Raleigh itself is a most interesting city-planning study, since it is one of the very few existing examples of a capital city which was planned in advance of its building.

CURRICULUM IN LANDSCAPE ARCHITECTURE

Freshman Year

COURSES	CREDITS First Term	Second Term	Third Term
Algebra, Trigonometry, Analytical Geometry, Math. 101, 102, 103	6	6	6
Composition, Eng. 101, 102, 103	3	3	3
Botany, General and Systematic, Bot. 101, 102, 203	4	4	3
Engineering Drawing II, and Descriptive Geometry, M.E. 105, 106, 107	3	3	3
Arboriculture, L.A. 101, 102, 103	1	1	1
Drawing, C.E. 101, 102, 103	1	1	1
Military Science I, Mil. 101, 102, 103, or Human Relations, Soc. 101, 102, 103	2	2	2
Fundamental Activities and Hygiene, P.E. 101, 102, 103	1	1	1
	21	21	20

Sophomore Year

Business English and Public Speaking, Eng. 211, 231	3	0	3
Plant Physiology, Bot. 221	0	0	5
Pencil Sketching, Arch. 100	3	0	0
Physical Geology, Geol. 120	0	4	0
Introduction to Economics, Econ. 205	0	3	0
Introduction to Psychology, Psychol. 200	3	0	0
Introduction to Architecture, Arch. 201	3	0	0
Elements of Architecture, Arch. 202, 203	0	3	3
Surveying, Theoretical, C.E. 221, 222	3	3	0
Field Surveying, C.E. 225, 227	1	0	1
Plant Materials: Woody Plants, L.A. 201, 202, 203	2	2	2
Theory of Landscape Design, L.A. 212, 213	0	3	3
Military Science II, Mil. 201, 202, 203, or World History, Hist. 104	2	2	2
Sport Activities, P.E. 201, 202, 203	1	1	1
	21	21	20

Surveying, C.E. s310, concurrent with Summer School, 3 credits, or
Surveying, C.E. s310, a, b, c, Junior Year, 3 credits.

Junior Year

Plant Materials: Herbaceous Plants, L.A. 303	0	0	2
Plant Ecology, Bot. 441	3	0	0
History of Landscape Design, L.A. 311, 312	3	3	0
Landscape Design I, L.A. 321, 322, 323	4	4	4
Technical Writing, Eng. 321	0	0	3
Shade and Shadows, Arch. 205	2	0	0
Freehand Drawing I, Pen and Pencil Drawing, Arch. 102	0	2	0
Freehand Drawing II, Water Color, Arch. 101	2	0	0
Freehand Drawing III, Charcoal, Arch. 103	0	0	2
Surveying, C.E. s310 a, b, c	1	1	1
Economic Zoology and Entomology, Zool. 102, 213	0	4	4
History of Architecture, Arch. 321, 322	3	3	0
*Electives	3	3	3
	21	20	19

* Elective credit must include 12 credits in Social Science.

Senior Year

COURSES	CREDITS First Term	Second Term	Third Term
Planting Design, L.A. 411, 412, 413	3	3	3
Landscape Design II, L.A. 421, 422, 423	4	4	4
City Planning, L.A. 432	0	3	0
Landscape Construction, L.A. 451, 452, 453	2	2	2
Perspective Drawing, Arch. 206	1	0	0
Accounting for Engineers, Econ. 212	3	0	0
Appreciation of Fine Arts, Arch. 111, 112, 113	3	3	3
Business Law, Econ. 307	0	0	3
*Electives	3	3	3
	19	18	18

POULTRY SCIENCE

Professor R. S. Dearstyne, Head of the Department
Associate Professors H. C. Gauger, J. W. Kelly
Assistant Professors R. E. Greaves and N. W. Williams

Laboratories. The Poultry Department is housed on the second floor of Ricks Hall. It embraces the Disease Diagnostic, the Anatomy-Hematolo gy, and Disease Research Laboratories, the Incubaor Room, and two Live Bird Laboratories. The laboratories are well equipped for teaching and research.

The Seminar Room.—Affording access to technical and to popular publications, to preserved pathological specimens, is open to the students at all times.

Purposes and Scope.—The Poultry Department, as a major division of the School of Agriculture and Forestry, serves North Carolina through teaching, research, and extension. Its research personnel embraces the field of avian genetics, parasitology, sero-bacteriology, histology, pathology and hematology. It has two poultry farms (chickens and turkeys) near the campus and two Experiment Station farms in the eastern and western parts of the state. The staff devotes its full time to poultry problems of the student, the poultryman and the industry. It serves a chicken and turkey farm industry of nearly 10,000,000 birds in North Carolina valued at approximately $30,000,000. It cooperates with the commercial concerns allied with poultry.

Central Poultry Plant.—Consists of forty buildings located on seventeen acres. Six laying houses and sixteen mating pens house approximately 250 breeders and 1,500 layers. All layers of three breeds of chickens are pedigreed and trap-nested. About 4,000 chicks are produced each year, all of these being pedigreed. An 18,000 capacity incubaor is used for teaching commercial incubation.

Central Turkey Plant. Consists of five new buildings located on twenty-five acres. One laying house and six mating pens house approximately 250 large bronze turkeys, all pedigreed and trap-nested. One 1,500-capacity incubator is used.

These two Plants provide abundant material for teaching and demonstrating principles of poultry management, breeding, judging and sanitation.

Disease Diagnostic Laboratory.—Serves directly and indirectly the poultrymen of the State. Approximately 30,000 birds have been autopsied since 1923; 3,000 are now autopsied annually. One thousand or more poultrymen are reached each year by correspondence and 250 receive personal attention in the laboratory. The birds received serve as excellent material for teaching, for laboratory material in the courses in anatomy and poultry diseases, and for investigational work in avian bacteriology, sero-bacteriology, anatomy, histology, pathology, hematology and parasitology.

Research.—A substantial research program is pursued in genetics, sero-bacteriology, histology, pathology, hematology and parasitology.

CURRICULUM A

(See page 62.)

Students majoring in Poultry Science will be required to take the following courses in Poultry Science: Poultry Anatomy, Poultry Judging, Poultry Nutrition, Commercial Poultry Production, Incubation and Brooding, Poultry Diseases (2 terms), Sero-diagnosis in Poultry Diseases, Preparation and

Grading of Poultry Products, Poultry Breeding, Turkey Production, and Poultry Seminar.

Other required courses in junior and senior years are Animal Physiology, Genetics, Bacteriology, General Economics (2 terms), and Statistics.

CURRICULUM B

(See page 64.)

The entire program for the junior and senior years for students majoring in Poultry Science will be developed in each instance by a committee of the Poultry Department.

RURAL SOCIOLOGY

Professor C. Horace Hamilton, Head of the Department
Professors G. W. Forster, Sanford Winston, William McGehee
Associate Professor Selz C. Mayo
Assistant Professor L. Walter Seegers

Objectives.—The principal objectives of this department are: (1) to give all students an appreciation of the human and social values in agriculture and rural life; (2) to give the future farmer and rural citizens an understanding of the social problems of the rural community; (3) to train rural leaders in methods of group organization and social control; (4) to train a few exceptional young men in rural sociological research and extension methods.

Relation to Other Departments.—The Department of Rural Sociology is closely related to and dependent upon Social Science Departments in the College and in the Consolidated University. Students specializing in rural sociology will be expected to take courses in such departments as: Sociology, Psychology, Statistics, Agricultural Economics, History, and Political Science. The Department of Rural Sociology functions also in a service capacity to Agricultural Departments and other rural agencies. Students taking courses in technical agriculture may take one or more courses in Rural Sociology as an elective Social Science.

Laboratory and Research Facilities.—The Department of Rural Sociology is constantly engaged in statistical and sociological studies of rural population, rural standards of living, rural communities, and related problems. Funds, laboratory equipment, and other facilities for this work are provided by the Agricultural Experiment Station and are available for the use of advanced students specializing in the field of Rural Sociology.

In a broader sense, the entire State is a laboratory for the study of rural social problems. Field trips and extended surveys may be carried out by advanced students during the summer months.

New Opportunities.—The field of rural social work offers new opportunities for agricultural graduates who have specialized in rural sociology. There is a great need now for men particularly, to fill administrative positions in all kinds of social security and welfare organizations, public and private. The rural sociology curriculum is designed to prepare agricultural college graduates for advanced professional training in social work and administration.

Curricula.—In the Department of Rural Sociology students may major in either the General Curriculum in Agriculture (page 62) or the Specialized Curriculum in Agriculture (page 64).

ZOOLOGY AND ENTOMOLOGY

Professor Z. P. Metcalf, Head of the Department

Professors C. H. Bostian, T. B. Mitchell, B. B. Fulton, F. H. McCutcheon, R. O. Stevens; Associate Professor R. Harkema, C. F. Smith; Assistant Professor W. M. Kulash; Instructors M. W. Wing, H. F. Schoof.

Teaching and Research.—The space devoted to Zoölogy is equipped to present the various subjects and to carry on research in its own and related fields. The Entomology Laboratory has a large Insectary with the usual equipment, and has an especially large collection of breeding animals for research and instruction in the field.

Beekeeping. The Beekeeping Laboratory is well provided with apparatus to illustrate all phases of beekeeping. A small apiary is maintained on the College grounds.

Graduate Work. The Technique and Graduate Laboratories are especially well equipped for the teaching of graduate work. The Museum contains a synoptic collection illustrating most groups of animals.

Curricula. The Department of Zoölogy offers curricula in Entomology and in Wildlife Conservation and Management set forth as follows. In Entomology students may major in either the General Curriculum in Agriculture (page 62) or the Specialized Curriculum in Agriculture (page 64).

WILDLIFE CONSERVATION AND MANAGEMENT

Principles. The Wildlife Management Curriculum is based on the following fundamental principles: (1) All forms of wild animal life must be considered in any extensive system of wildlife management; (2) the animal life of any given area is in close relationship to the vegetation existing in that area; (3) in favorable environment, the species of wildlife will normally produce a surplus, a part of which can be harvested each year in a manner similar to the harvesting of other crops.

Conservative Approach.—Since wildlife management is just getting under way in this country, it would not seem advisable to encourage too rapid expansion of this profession at the present time, although there is a distinct need for a moderate number of well-trained men to promote and supervise wildlife management in the many sections of the country.

Positions.—The curriculum is designed to furnish a technical and practical background for the following types of positions: (1) Wildlife-Management Technicians in State Game and Fish Departments; (2) Biologists in the United States Biological Survey, Forest Service, Soil Conservation Service, National Park Service, and other Federal Land-Use Departments; (3) Game Managers on private preserves or leased areas, State game refuges, and on other land areas which are being developed primarily for wildlife.

Research. Because of the great need for research and experimental work in this field, the required courses in the curriculum are also designed to give the basic technique necessary to students who may desire to enter this phase of wildlife management. Several elective courses will be available for junior and senior students to enable them to specialize in some particular phase of the work.

State Advantages.—Unusual advantages are offered to competent students by the wide range of natural environments in the North Carolina Coastal Plain, Piedmont, and Mountain Regions. Further advantages are available by reason of close coöperation with the State Division of Game and Inland Fisheries, and the opportunity to observe developments in wildlife management on the following areas: Mount Mitchell Game Preserve, Sandhill Land-Use Project, Soil Conservation Service Projects, Mattamuskeet Water Fowl Preserve, The Nantahala and Pisgah National Forests, The Great Smoky Mountain National Park. and private preserves in the Piedmont and on the Coastal Plain.

CURRICULUM IN WILDLIFE CONSERVATION AND MANAGEMENT

Freshman Year

COURSES	CREDITS First Term	Second Term	Third Term
Composition, Eng. 101, 102, 103	3	3	3
General Inorganic Chemistry, Chem. 101, 102, 103	4	4	4
Mathematical Analysis, Math. 111, 112	0	4	4
General Zoology, Zool. 101	4	0	0
Economic Zoology, Zool. 102	0	4	0
Physical Geology, Geol. 120	0	0	4
History of the U. S. and Am. Govt. and Political Science, Hist. 121, 122, 211	3	3	3
Elementary Wildlife Management, Zool. 111	1	0	0
Military Science I, Mil. 101, 102, 103, or alternate	2	2	2
Fundamental Activities and Hygiene, P.E. 101, 102, 103	1	1	1
	18	21	21

Sophomore Year

COURSES	CREDITS First Term	Second Term	Third Term
Agricultural Physics, Phys. 115	0	0	5
Botany, General and Systematic, Bot. 101, 102, 203	4	4	3
Introduction to Organic Chemistry, Chem. 203	0	0	5
General Economics, Econ. 201, 202	3	3	0
Land Economics, Agr. Econ. 212	0	3	0
Public Speaking, Eng. 231	3	0	0
Comparative Anatomy, Zool. 223	0	0	5
General Field Crops, F. C. 201	0	4	0
Ornithology, Zool. 251, 252, 253	2	2	2
Surveying, Theoretical, C.E. 221, 222	3	3	0
Surveying, Field, C.E. 225	1	0	0
Military Science II, Mil. 201, 202, 203, or alternate	2	2	2
Sport Activities, P.E. 201, 202, 203	1	1	1
	19	19	23

Junior Year

Plant Propagation, Hort. 301	0	0	3
Dendrology, Bot. 211, 213	3	0	3
Plant Ecology, Bot. 441	3	0	0
Field Zoology, Zool. 431	3	0	0
General Bacteriology, Bot. 312	0	4	0
Economic Entomology, Zool. 213	0	0	4
Animal Physiology, Zool. 201	5	0	0
Wildlife Conservation, Zool. 321, 322, 323	3	3	3
Soils, Soils 202	0	5	0
Principles of Forestry, For. 111	0	0	3
Land Economics, Agr. Econ. 212	0	3	0
Electives	3	6	3
	20	21	19

Senior Year

Aquatic Biology, Bot. 473	0	0	3
Elective Social Science	3	0	0
Elective English	3	0	0
Wildlife Management, Zool. 451, 452, 453	3	3	3
Soil Classification, Soils 312	0	3	0
Advanced Animal Ecology, Zool. 462, 463	0	3	3
Parasitology, Zool. 492, 493	0	3	3
Technical Writing II, 323	0	0	3
Electives	9	6	5
	18	18	20

THE AGRICULTURAL EXPERIMENT STATION

L. D. Baver, Director

R. W. Cummings, Assistant Director

Establishment. The Agricultural Experiment Station was established in accordance with an Act of the General Assembly of 1877. Its progress has been enhanced by different Acts of Congress giving to the Station additional funds in 1887, 1906, 1925, and 1935. These are known as the Hatch, the Adams, the Purnell, and the Bankhead-Jones acts, respectively. The General Assembly has allocated to the Station annually certain funds from the general fund.

Purpose.—The purpose of the Agricultural Experiment Station is to study methods for economic production of the highest grades of livestock, poultry, and plants on the many soil types and varied conditions existing throughout the commonwealth; to study methods for the control of parasitic insects and organisms that cause serious economic losses of animals, poultry, and plants; to find and develop varieties of animals, poultry, and plants, new, and resistant to diseases and the changeable conditions prevailing in this State; and to perfect better marketing for all agricultural products.

Work.—The staff of the Agricultural Experiment Station conducts experiments throughout the State on areas owned by farmers, on six strategically located test farms, on farms rented for short periods, and in the greenhouses and laboratories of the College.

Research.—The agricultural research aims, through the discovery of new facts, to improve the well being of farmers throughout the State; to strengthen the regulatory work of the State Department of Agriculture; to develop new and necessary facts for the teaching of sound agricultural principles by vocational agricultural instructors, agricultural extension agents, and agricultural instructors in the College.

Experts.—The Agricultural Experiment Station staff brings to the College many experts, whose teachings in many specialized fields of agriculture assure the maintenance of curricula of high standards. It contributes much to the advanced training of students who are destined to become the leaders, teachers, and investigators so necessary in the maintenance of agriculture on sound and economic planes.

Publications.—The Agricultural Experiment Station publishes many bul letins and scientific papers on results of research conducted by the staff. These are free and sent upon request of anyone in the State.

Problems.—The staff diagnoses and interprets many problems for the farmers of this State; holds council with farmers and others interested in the agricultural industry; discusses farming procedures over the radio, and writes many letters on the more specific problems of agriculture at the request of farmers, members of garden clubs, and of fertilizer, fungicide, and insecticide manufacturers. It takes part in many of the administrative functions of the College.

COOPERATIVE AGRICULTURAL EXTENSION WORK

Dr. I. O. Schaub, Director
John W. Goodman, Assistant Director
Dr. Jane S. McKimmon, Assistant Director
Ruth Current, State Home Demonstration Agent

Support.—The Agricultural Extension Service of State College is conducted coöperatively with the United States Department of Agriculture and the one hundred counties of the State. The work is supported by Federal funds derived from the Smith Lever Act of 1914, the Capper-Ketcham Act of 1928, and the Bankhead-Jones Act of 1935, from State appropriations and county appropriations. The Federal and State appropriations are used to maintain an administrative and specialist staff, and to supplement salaries and travel expenses of county Extension agents.

Purpose.—The purpose of the Extension Service is to teach by demonstration. In carrying out this purpose, the College maintains a staff of trained specialists, a system of county agents and assistant agents, and a corps of home-demonstration agents. Instruction is given at group meetings by method and result demonstrations, and by the written word, by training leaders, and through organized effort with clubs of men, women, and young people. In all of these activities, the plan is to carry the rural people of North Carolina the latest and best information obtainable for building a more prosperous and satisfying life on the farm. The Extension Service holds a number of short courses, both on the College campus and elsewhere over the State, that the greatest number of rural leaders may be trained for building better homes and better farms, in the use of more efficient practices, thus creating a more satisfying way of life.

THE SCHOOL OF ENGINEERING

John Harold Lampe, Dean of the School of Engineering

Organization

The School of Engineering of the North Carolina State College of Agriculture and Engineering of the University of North Carolina is organized for purposes of administration into the following Departments:

Line Departments

	Administrative Officer
Aeronautical Engineering	
Architectural Engineering	Professor Ross Shumaker
Ceramic Engineering	Professor A. F. Greaves-Walker
Chemical Engineering	Professor E. M. Schoenborn, Jr.
Civil Engineering	Professor C. L. Mann
Electrical Engineering	Professor C. G. Brennecke
General Engineering	Professor G. Wallace Smith
Geological Engineering	Professor J. L. Stuckey
Industrial Engineering	
Mechanical Engineering	Professor L. L. Vaughan

Service Departments

Engineering Experiment Station	Professor W. G. Van Note
Engineering Mechanics	Professor G. Wallace Smith
Mathematics	Professor H. A. Fisher
Physics	Professor C. M. Heck

The School of Engineering is organized to offer technical and professional engineering instruction on the higher levels, undergraduate and graduate, vocational and professional, to meet the needs of the people of North Carolina. It is also organized and equipped to conduct research in the fundamentals of Engineering, and it coöperates with the College Extension Division in offering extension courses in Engineering and its allied fields.

Effective July 1, 1938, the consolidation of Engineering instruction at the University Unit in Raleigh was consummated, and the instructional staff and laboratory facilities were enhanced by additions from the Engineering College formerly maintained by the Unit at Chapel Hill. This gives the School of Engineering in Raleigh the largest and most extensive engineering staff and equipment in this section of the country, and offers to the young men of North Carolina excellent facilities for securing an undergraduate education in Engineering.

The excellence of the instruction in the School of Engineering is attested by the fact that the Engineers' Council for Professional Development has accredited its curricula in Ceramic, Civil, Electrical, and Mechanical Engineering. It is the policy of the School of Engineering to have all of its curricula meet the standards of this nationally recognized accrediting agency. Engineering education requires extensive laboratory facilities, and as rapidly as funds are available all of its laboratories are being brought into shape to meet the highest standards attained in any technological institution of higher learning.

Location and Facilities

Raleigh is a particularly favorable place for the study of Engineering. It is not only the State Capital where are located many State Departments of interest to engineers, such as the State Highway Commission, State Board of Health, State Geologist, Department of Conservation and Development, and important State institutions, but it is a rapidly growing city marked by modern developments in residential, commercial, and municipal construction. The local building and engineering go on the year round and afford excellent opportunities for observation and study. Raleigh is so situated geographically that it is within easy distance for inspection trips to commercial chemical works, woodworking mills, railway shops, machine shops, airports, and manufacturing industries.

Raleigh is also a center from which electric power is distributed to a large section of the State. A transformer and meter substation adjoins the campus, and from it high-tension lines radiate in four directions. Hydro-electric and steam-electric plants on the Cape Fear River are within easy reach. The important systems of highways centering in Raleigh are exceptionally valuable for the observation and study of the construction, use, and maintenance of roads.

On the State College campus are six large buildings devoted exclusively to engineering instruction and research. These buildings contain much laboratory equipment which can be inspected at any time, but is best seen during the Engineers' Fair, which is held each year in March or April.

Purposes of the School

The purposes of the School of Engineering are: to educate men for professional service in Aeronautical, Architectural, Ceramic, Chemical, Civil, Construction and Building Materials, Electrical, Geological, Industrial, Mechanical, Sanitary, and Transportation Engineering; to equip them to participate in commercial and public affairs; to develop their capacities for intelligent leadership; to aid in the development of commerce and industry through research and experimentation; to investigate natural resources and demonstrate their value to the people of the State; to coöperate with private companies, municipalities, public authorities, and commercial and industrial organizations through scientific research, thus increasing technical skill, improving the value of manufactured products, and eliminating waste.

Occupations Open to Graduates

Those who graduate and receive a bachelor's degree in some specialized branch of engineering are equipped to assume at once the duties and responsibilities usually given Junior Engineers. The graduates of the School of Engineering are found in many technical fields, but most of them find employment in some one of the following: Aeronautical, Architectural and Structural Engineering; the Ceramic, the Chemical industries; and Private Professional Practice, Consulting Engineers; Hydro-electric Engineering, Electrical Manufacturing, Contracting, Central Steam-Electric Station Design and Construction, Telephone Service, Maintenance and Operation of Electrically-driven Mill Equipment, Lighting, Illumination, and Railway Signaling; Construction, Maintenance, and Operation of Steam and Electric Railways; the Design and Manufacture of Machinery, the Operation of Shops, and the Furniture Industry; Geological Engineering, Highway Engineering, Industrial Engineering, and the Management of Industries, Municipal Engineering, Sanitary Engineering; as City Managers, Public-Utility and Health-Service Officials; Sales Engineering, Research and Development.

Curricula

Besides a curriculum leading to the Bachelor of Science degree in General Engineering, the School of Engineering offers curricula which lead to the Bachelor's degree in the following specialized fields of Engineering:

Aeronautical Engineering
Architectural Engineering
Architecture
Ceramic Engineering
Chemical Engineering
Civil Engineering, with options in:
- (a) Construction and Building Materials
- (b) General Civil
- (c) Sanitary
- (d) Transportation

Electrical Engineering, with options in:
- (a) Power Generation and Distribution
- (b) Electrical Communication

Geological Engineering
Industrial Engineering
- (a) Furniture Option

Mechanical Engineering, with options in:
- (a) General
- (b) Heating and Air Conditioning
- (c) Metals

All of the curricula contain courses of general educational value which prepare students for the duties of citizenship in a democracy. However, the

curricula are primarily technical and practical, and designed to prepare young men for professional practice and for definite vocations as well as for leadership in the industrial advancement of the State.

The instruction is such as will foster the individual talent, imagination, and initiative of students, and instill in them ideals of accomplishment, service, and good citizenship, while assuring to them that scientific education and practical training which will prepare them for professional service and leadership in engineering and in industry. In this way the School of Engineering aids in the advancement of commerce and industry and furthers the development and economic utilization of the State's resources for the general welfare.

All the engineering curricula emphasizes thoroughness in the study of English and of the sciences—Mathematics, Physics, and Chemistry with a thorough drill in the application of fundamental principles to engineering and industrial problems. Engineering is a profession, and the students come to realize that it is both honorable and learned, and that it offers exceptional opportunities for service.

The several engineering curricula have a common freshman year and differ only slightly in the sophomore year, in which years the students study English, Mathematics, Drawing, Shopwork, Physics, and Chemistry. In the junior and senior years the students are directed definitely to the professional aims in carefully considered and well-balanced curricula.

Summer Work.—At least six weeks of summer employment, approved by the Head of the Department in which the student is enrolled, preferably in the summer following the junior year, is a specific requirement for graduation in Engineering.

The purpose of this is to have every student, before graduation, acquire the valuable experience of actual work with responsibility and pay in the field of his vocation. Departmental advisers will aid students in getting summer employment.

*** Inspection Trips.**—In order to familiarize himself with the practice of his profession, each senior in Engineering is required as a part of his curriculum to take the departmental inspection trips. None will be excused except for grave reasons.

These inspection trips are arranged by the Head of the Department in which the student takes his major work. The cost of such trips vary from $25.00 to $60.00 per student, depending on the time and distance traveled.

Degrees. Six different types of degrees may be secured through the School of Engineering. These are:

1. **Bachelor of Science** (B.S.). This degree can be obtained only through completion of the curriculum in General Engineering. This is a course of study founded upon the fundamentals of engineering with no specialized courses but with liberal allowances for electives in the cultural courses. It is an earned undergraduate degree and can be obtained by four years of undergraduate work.

2. **Bachelor of a Specialized Branch of Engineering.** for example, B.C.E. Bachelor of Civil Engineering. This is an earned undergraduate degree which includes in the last two years some specialized courses in the particular branch of engineering in which the student is studying. This course is planned for four years of study; but due to the fact that it is very difficult, only the very best prepared and most diligent students can successfully complete it in the time allotted.

3. **Master of Science** (M.S.) in a specialized branch of engineering. This is an earned graduate degree which can be obtained only after the Bachelor's degree. It requires at least one year of graduate work, a reading knowledge of at least one foreign language, and a thesis showing ability to pursue independent research. The core of graduate courses taken must emphasize a scientific objective. Further information concerning the requirements for this degree may be obtained by addressing Dr. Z. P. Metcalf, **Director of Graduate Studies, State College, Raleigh, N. C.**

4. **Master of a Specialized Branch of Engineering,** for example, (M.C.E.) Master of Civil Engineering. This is an earned graduate degree which can be obtained only after the specialized Bachelor's degree and requires one year of graduate work which emphasizes the technical and specialized professional engineering courses, and a thesis along professional engineering lines indicating ability to carry on independent professional investigations. For further information concerning this degree address Dr. Z. P. Metcalf, **Director of Graduate Studies, State College, Raleigh, N. C.**

5. **The Professional degree,** for example, Architectural Engineer, Ceramic Engineer, Chemical Engineer, Civil Engineer, Electrical Engineer, Mechanical Engineer.

This is an earned degree which is conferred only upon the graduates of some branch of the University of North Carolina, after five years of professional engineering practice in responsible charge of important work, the acceptance of a thesis on a subject related to the professional engineering practice in which the applicant is engaged, and the passing of an examination upon the candidate's professional experience. For further information concerning this degree address Dr. Z. P. Metcalf, **Director of Graduate Studies, State College, Raleigh, N. C.**

6. **The Honorary Degree of Doctor of Engineering** (D.Eng.). This degree is purely an honorary degree conferred upon men of extraordinarily high professional engineering attainments who are graduates of one of the branches of the University of North Carolina, or upon professional engineers who have rendered distinguished services to the State of North Carolina.

Graduation.—The requirements for graduation in a specialized branch of Engineering are the satisfactory completion of all the courses in one of the prescribed curricula (see tabulation of curricula on the pages following), a total of not less than 240 term credits, with not less than 240 honor points.

Of the minimum of 240 term credits required for graduation in Engineering, 117 are common to all curricula: 30 term credits in Mathematics, 18

in Language, 9 in Economics, 12 in Chemistry, 12 in Physics, 9 in Mechanics, 9 in Drawing and Descriptive Geometry, 12 in Military Training, and 6 in Hygiene and Physical Education.

Each of the curricula permits election of at least 18 term credits and contains not more than 72 special technical term credits.

Graduates in Liberal Arts. An increasing number of graduates of liberal-arts colleges and universities are seeking an engineering degree. The policy of the School of Engineering is to allow as liberal an arrangement of courses as possible to suit the individual student's needs so that the degree in engineering may be obtained in the briefest time possible. However, the liberal-arts courses are distinctly different from those offered in an engineering school even when they have the same name and deal with the same subject matter. Students are therefore advised that the best economy of their time and money will be attained if they enroll at the beginning of their college careers as freshmen in an engineering curriculum.

A graduate with an A.B. degree will normally require two years additional work to obtain a Bachelor's degree in engineering.

A graduate with a B.S. degree may obtain a degree in engineering with from one to two years of additional study. A final decision in each case can be made only after an evaluation of the transcript of the student's record in the college from which he has received his degree.

Short Courses; Institutes. The School of Engineering coöperates with the College Extension Division in offering short courses and institutes for adults and graduate engineers. These courses vary in length from one day to one week; each year the courses covered are different and vary according to the public demand. The faculty of the School of Engineering usually furnishes a large portion of the instruction offered in these courses, which in the past have been for Electrical Metermen, Gas Plant Operators, Waterworks Operators, Heating and Plumbing Contractors, Surveyors and Engineers. These short courses are usually held in Raleigh because the School of Engineering has unusual laboratory and classroom facilities which offer a decided advantage to those who desire to "brush up" on their specialty and bring themselves abreast of the times by attending such short courses. For information concerning any short course, address inquiry to Mr. Edward Ruggles, Director, Extension Division, State College, Raleigh.

SERVICE DEPARTMENTS

An explanation of the purposes, and a listing of the personnel engaged in the three Service Departments in the School of Engineering follow:

ENGINEERING MECHANICS

Professor G. Wallace Smith, Head of the Department

Professor N. W. Conner; Associate Professor A. Mitchell;

Assistant Professor C. E. Feltner*

Instructors J. T. Massey,* J. N. Farlow*

The Department of Engineering Mechanics, which is housed in the Civil Engineering Building, teaches and administers the courses in theoretical and applied mechanics, strength of materials, and fluid mechanics. These courses have been grouped under an independent Department, which is the custom in most large engineering schools, for two reasons: first, to economize by preventing duplications and overlapping; second, because the mechanics courses are basic, required courses in all the engineering curricula, and here all engineering students meet on an equal footing. The best and most uniform results are thus obtained when such courses are taught in a Department completely separated from the bias of any particular type of specialization.

THE DEPARTMENT OF MATHEMATICS

Professor H. A. Fisher, Head of the Department

Professors C. G. Mumford, H. Page Williams, J. M. Clarkson; Associate Professors J. W. Cell, R. C. Bullock, J. Levine, L. S. Winton, H. V. Park; Assistant Professors H. M. Nahikian, C. F. Strobel, Robert Hooke, W. P. Seagraves; Instructors H. C. Cooke, H. J. Zimmerberg, G. C. Watson, N. P. Yeardley, C. W. Williams, E. P. Miles, Jr.

Mathematics is one of the basic sciences in Engineering. At State College the large and competent Mathematics Department not only teaches the subject as a science but gives also a large amount of drill and practice to the students so that, upon completion of the courses, the students not only know the subject matter but are skilled and rapid in its use when applied to the problems of technology.

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* On leave to U. S. Army.

THE PHYSICS DEPARTMENT

Professor C. M. Heck, Head of the Department

Professor J. B. Derieux; Associate Professors J. S. Meares,* F. W. Lancaster; Assistant Professors R. F. Stainback,* G. W. Bartlett, J. I. Hopkins, E. J. Brown, J. T. Lynn; Instructor G. W. Charles.**

Physics is another of the basic sciences upon which Engineering and Agriculture are founded.

Facilities.—The Department of Physics occupies the northern half of Daniels Hall three floors, with six laboratories and six lecture rooms. The basement is devoted to research laboratories, shops, dark rooms, battery room, and power center. The two floors above comprise laboratories, lecture rooms, offices, and apparatus rooms.

Equipment. The Department is equipped with laboratory apparatus in a sufficient number of sets to permit all students in a laboratory to work during the same period on the same experiment. All lectures are demonstrated with a large assortment of equipment and apparatus collected through many years.

On the roof of the building is located the astronomical observatory and the radio-research laboratory. The five inch telescope is equatorially mounted and driven by clock work.

The Department is equipped for research and engineering students desirous of using Physics as a minor in their work for an advanced degree may use these facilities.

THE ENGINEERING EXPERIMENT STATION

Professor W. G. Van Note, Assistant Director

Room 112, Civil Engineering Building, State College Station, Raleigh.

Establishment.—The Engineering Experiment Station of North Carolina State College of Agriculture and Engineering was established in 1923, as provided by the General Assembly of that year. It is an integral part of the School of Engineering, and is engaged in an organized program of research, the purposes for which are:

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* On military leave.
** On leave.

(a) The investigation of resources and processes, through experimentation and tests, with the object of opening and developing wider fields for the use of the natural resources of the State.

(b) Cooperation with industrial organizations in the solution of technical problems, and the development of new products.

(c) To seek further knowledge, through fundamental research, in the field of the natural sciences.

The station endeavors to coordinate the research work undertaken within the Engineering School, and publishes the results of the sponsored projects upon their completion.

Publications.—The Experiment Station has, since its organization, cooperated with various organizations and industries in the State in the investigation of problems peculiar to North Carolina. The results of such investigations have, from time to time, been issued in the form of Bulletins. The following is at present a complete list of the publications of the Station:

Bulletin No. 1. "County Roads: Organization, Construction and Maintenance," by Harry Tucker. James Fontaine, and L. D. Bell.

Bulletin No. 2. "Tests of Face and Common Brick Manufactured in North Carolina," by A. F. Greaves-Walker and James Fontaine.

Bulletin No. 3. "Poles from North Carolina Forests," by Wm. Hand Browne, Jr., and James Fontaine.

Bulletin No. 4. "Motor Vehicle Accidents in North Carolina," by Harry Tucker.

Bulletin No. 5. "Occurrence and Physical Properties of North Carolina Marble," by Jasper L. Stuckey and James Fontaine. Price twenty cents.

Bulletin No. 6. "The Occurrence, Properties, and Uses of the Commercial Clays and Shales of North Carolina," by A. F. Greaves-Walker, N. H. Stolte, and W. L. Fabianic. Price fifty cents.

Bulletin No. 7. "Highway Grades and Motor Vehicle Costs," by Howard Burton Shaw and James Fontaine. Price twenty cents.

Bulletin No. 8. "Financial Management for Highways," by Marc C. Leager. Price one dollar.

Bulletin No. 9. "Highway Accidents in North Carolina and Guides to Safety," by Harry Tucker. Price fifty cents.

Bulletin No. 10. "North Carolina Building Code," by the North Carolina Building Code Council. Price one dollar.

Bulletin No. 11. "The Production of an Insulating Brick Using North Carolina Shales," by A. F. Greaves-Walker, W. C. Cole, Jr., and S. C. Davis. Price twenty cents.

Bulletin No. 12. "The Development of Pyrophyllite Refractories and Refractory Cements," by A. F. Greaves-Walker, C. W. Owens, Jr., T. L. Hurst, and R. L. Stone. Price fifty cents.

Bulletin No. 13. "The Preparation of Concrete Using North Carolina Materials," by Harry Tucker and W. G. Geile.

Bulletin No. 14. "The Location and Distribution of the Ceramic Mineral Deposits of North Carolina," by A. F. Greaves-Walker and S. G. Riggs, Jr. Price twenty-five cents.

Bulletin No. 15. "A Study of Courses in Technical Writing," by A. M. Fountain. Price one dollar.

Bulletin No. 16. "The Production of Unfired and Fired Forsterite Refractories from North Carolina Dunites," by A. F. Greaves-Walker and R. L. Stone. Price fifty cents.

Bulletin No. 17. "Papers Presented at School for Street Superintendents, 1939," compiled by Harry Tucker.

Bulletin No. 18. "Net Revenue Method of Comparing Distribution Transformers," by R. R. Brown.

Bulletin No. 19. "The Origin, Mineralogy and Distribution of the Refractory Clays of the United States," by A. F. Greaves-Walker.

Bulletin No. 20. "Papers Presented at School for Street Superintendents, 1940," compiled by Harry Tucker.

Bulletin No. 21. "Drafting Room Practices," by T. C. Brown and P. E. Moose. Price twenty-five cents.

Bulletin No. 22. "The Development of an Unfired Pyrophyllite Refractory," by A. F. Greaves-Walker and J. J. Amero. Price fifty cents.

Bulletin No. 23. "The Suitability of North Carolina Shales and Clays for Mortar Mixes," by A. F. Greaves-Walker and W. A. Lambertson. Price twenty-five cents.

Bulletin No. 24. "The Development of Light Weight Concretes from North Carolina Vermiculites," by William A. Scholes, A. F. Greaves-Walker, E. R. Todd, and D. F. Cox. Price fifty cents.

Bulletin No. 25. "Ceramic Dielectric and Insulator Materials for Radio and Radar Instruments," by R. L. Stone. Price fifty cents.

Bulletin No. 26. "Suitability of North Carolina Trees for Chemical Conversion Products and for Certain Other Uses," by E. E. Randolph. Price fifty cents.

Bulletin No. 27. "Investigation of Factors Affecting the Firing Shrinkage of Dry-Pressed Steatite Bodies," by R. L. Stone. Price thirty-five cents.

Bulletin No. 28. "Part I. Investigation of Binders for Dry-Pressed Steatite Porcelains. Part II. The Development of Systems of Shrinkage Control for Dry-Pressed Steatite Porcelains," by R. L. Stone. Price thirty-five cents.

Bulletin No. 29. "Part I. The Development of a System of Shrinkage Control for Extruded Steatite Bodies (Chapters I and II). Part II. The Development of Special Bodies for Production of Electron Tube Spacers (Chapters III and IV)," by R. L. Stone. Price thirty-five cents.

Bulletin No. 30. "An Investigation of the Design and Capacity of Gutter Inlets," by N. W. Conner. Price twenty-five cents.

Current Activities.—The Experiment Station is now assisting in the following investigations that are being conducted by the several Departments of the Engineering School:

1. In cooperation with the North Carolina State Highway and Public Works Commission: Investigation of steel-beam bridges with concrete floors.
2. In cooperation with the North Carolina State Board of Health: The efficiency of small sewage-treatment plants.
3. A study of the effects of inertia, viscous, elastic, and surface tension forces on small scale models of fluid flow.
4. The development of electroplating processes.
5. A study of the electrical properties of North Carolina micas at 3000 megacycles.
6. A theoretical and experimental investigation of the responses of non-linear circuit elements.

CURRICULA OFFERED IN THE SCHOOL OF ENGINEERING

Each of the following curricula is not only well balanced, but offers a liberal course of study in a technical and professional field. Each conforms to what is regarded by engineering educators as the best modern practice.

Also offered in the School of Engineering is a curriculum leading to the Bachelor of Science degree in Engineering (see page 129). This curriculum **has no specialization and requires but 238 term credits with at least 238 honor points. It is recommended to those who desire a broad general training in the basic principles of Engineering.**

FRESHMAN YEAR of ALL CURRICULA in ENGINEERING

COURSES	CREDITS First Term	Second Term	Third Term
Algebra, Trigonometry, Analytical Geometry, Math. 101, 102, 103	6	6	6
Composition, Eng. 101, 102, 103	3	3	3
General Inorganic Chemistry, Chem. 101, 102, 103	4	4	4
Engineering Drawing II, M.E. 105, 106	3	3	0
Descriptive Geometry, M.E. 107	0	0	3
Military Science I, Mil. 101, 102, 103, or World History, Hist. 104	2	2	2
Fundamental Activities and Hygiene, P.E. 101, 102, 103	1	1	1
	19	19	19

Summer requirement following the freshman year in Aeronautical, Architectural, Ceramic, Electrical, General, and Mechanical Engineering: Surveying, C.E. s200, 3 credits.

*Citizenship Requirement for All Curricula in Engineering

In order that every graduate of the School of Engineering may have a working knowledge of the fundamentals of American Government, all students in the School of Engineering are required to take prior to the end of their sophomore year a citizenship test, and in the event a student fails to pass this comprehensive examination, he will be required to take American Government (Political Science 211) 3 or 3 or 3. Students may elect to take the course in lieu of the examination, and students taking the course will be permitted to apply the credit earned in partial satisfaction of their social science electives. A student must pass the comprehensive examination or the course in American Government before he can graduate from the School of Engineering.

* Waived for the duration of the war.

AERONAUTICAL ENGINEERING

(Under supervision of Mechanical Engineering Department until further notice.)

Associate Professor R. F. Rautenstrauch; Instructor R. W. Truitt.*

Building and Equipment—

The Department of Aeronautical Engineering has a new building centrally located on the campus. It contains the offices of the aeronautical engineering faculty and the aeronautical laboratory.

The Aeronautical Laboratory provides for the testing of component parts of aircraft. The latest machines and instruments are available for use in this connection. A Luscombe monoplane of all metal construction, completely equipped with instruments, is used for purposes of study and flight testing.

Curriculum—

Since the trend of airplane design changes quite rapidly, no attempt is made to produce specialists in any phase of aeronautical engineering. The course of study is intended to give the student a well rounded knowledge of fundamentals. Upon graduation most students find positions in aircraft industry or the aviation services where they may receive further training of more specialized nature. Thus a student may prepare himself for any one of the many ground and flying positions available in the aviation industry today. In view of the present war requirements more time is being devoted to aircraft production subjects. Courses in Air Transportation are normally offered.

* On military leave.

CURRICULUM IN AERONAUTICAL ENGINEERING

(Under supervision of Mechanical Engineering Department until further notice.)

Due to the present untable conditions brought about by postwar reaction on engineering developments, this curriculum will be effective until further notice.

For the Freshman Year, refer to page 106.

Summer requirement following the freshman year: Surveying, C. E. s200, 3 credits.

Sophomore Year

COURSES	Terms and Credits F	W	S
Calculus I, II, III, Math. 201, 202, 305	4	4	4
†Business English, Pub. Speaking, Eng. 211, 231 and Elective English	3	3	3
Physics for Engineers, Phys. 201, 202, 203	4	4	4
Mechanical Drawing, M. E. 211, 212, 213	2	2	2
Shopwork, M. E. 124, 125, 126	2	2	2
Engineering Mechanics, E. M. 311, 312	0	3	3
*Military Science, Mil. 201, 202, 203	2	2	2
Physical Education, P. E. 201, 202, 203	1	1	1
	18	21	21

Junior Year

Engineering Mechanics, E. M. 313	3	0	0
Engr. Thermo., M. E. 307, 308, 309	3	3	3
Thermo. Lab., M. E. 313, 314, 315	1	1	1
Elementary Mechanism, M. E. 215, 216, 217	1	1	1
General Aeronautics, Aero. E. 300	0	3	0
Elementary Aeronautics, Aero. E. 310	0	0	3
Metallurgy, M. E. 321, 322	3	3	0
Str. of Materials, C. E. 321, 322	0	3	3
Fluid Mechanics, E. M. 330	0	0	3
Technical Writing, Eng. 321	3	0	0
Elements of E. E., E. E. 320, 321, 322	3	3	3
**Electives	3	3	3
	20	20	20

Senior Year

General Economics, Econ. 201, 202, 203	3	3	3
Internal Comb. Engines, M. E. 421, 422, 423	3	3	3
Airplane Design, Aero. E. 421, 422, 423	3	3	3
Aerodynamics, Aero. E. 431, 432, 433	3	3	3
Aero. Lab., Aero. E. 441, 442, 443	1	1	1
Business Law, Econ. 307	0	3	0
Aircraft Engines, Aero. E. 451	0	0	3
Industrial Management, Econ. 325, 326	3	3	0
**Electives	3	3	3
	19	22	19

† Students who have been certified by the Department of English as proficient in English may substitute Modern Language for the courses listed.

* Or 6 credits in one or two of the following departments: Economics, Psychology, History and Political Science, Modern Languages, Sociology.

** To be selected from the following fields: Humanities, Military Science III and IV, Language and Literature, Pure Mathematics, Pure Natural Science, and Social Science.

ARCHITECTURE AND ARCHITECTURAL ENGINEERING

Professor Ross Shumaker, Head of Department
Professor J. D. Paulson
Assistant Professors F. Carter Williams*, W. L. Baumgarten,
James H. Grady

The courses in Architecture and Architectural Engineering have been arranged after careful study of the best curricula offered by the leading educational institutions in the United States. These studies and many years of practical experience on the part of the faculty—both in the profession and in teaching, enable this Department to offer two allied courses of merit, proved by the very high proportion of graduates of this Department who successfully follow the profession of architect.

The first three years of study in Architecture and in Architectural Engineering are very similar—so arranged that a student may transfer from one curriculum to the other until the end of the junior year—with a minimum loss of credits. After the third year, however, there is a wide divergence in the courses.

Architecture is one of the most valuable and constructive professions in modern civilization. While an art, it must be firmly rooted in science; and the greater the project, the more positively this is true. Consequently, a student who is ambitious to be a great architect must master the artistic scope of architecture and also such science as is pertinent. To compress such a course into four years would necessarily eliminate some essential studies or reduce the content of all. Therefore the curriculum in Architecture is presented as a five-year course of study.

Architectural Engineering is designed to prepare students for the pursuit of engineering as allied with architecture. Modern architecture has so many engineering aspects as in construction, fabrication and use of materials. provision of conveniences, that a student may well plan to specialize in some one of these fields. This four-year course provides a thorough training in the theoretical engineering of architecture and a sufficient knowledge of architecture as an art to enable the graduate to pursue any specialized branch he may select. Also it is possible for him to continue in the field of architecture and eventually obtain registration as a licensed architect.

Equipment.—The Department of Architecture and Architectural Engineering occupies the third floor of Daniels Hall, an excellent location providing adequate space in well-lighted and comfortable rooms. Large drawing rooms, library, lecture rooms, photographic dark room, and offices, overlooking the entire State College Campus, constitute an ideal physical layout for the Department. Drawing tables, stools, lockers, and essential furniture are all provided.

Alumni.—Graduates of this department have little difficulty in normal times in finding employment and experience such that in a few years they can obtain registration as licensed architects. Many graduates have been conspicuously successful, and it is worthy of note that a very large proportion remain in the State of North Carolina or adjacent territory.

* On military leave.

CURRICULUM IN ARCHITECTURAL ENGINEERING

For the Freshman Year, refer to page 106.

Surveying, C.E. s200, 3 credits, is required in the summer immediately following the freshman year.

Sophomore Year

COURSES	CREDITS First Term	Second Term	Third Term
Calculus I, II, III, Math. 201, 202, 303	4	4	4
*Business English, Public Speaking, Eng. 211, 231, and Elective English	3	3	3
Physics for Engineers, Phys. 201, 202, 203	4	4	4
Engineering Mechanics, E.M. 311, 312	0	3	3
Elements of Architecture I, II, III, Arch. 201, 202, 203	2	3	3
Shades and Shadows, Arch. 205	2	0	0
Pencil Sketching, Arch. 100	1	1	1
Perspective Drawing, Arch. 206	1	0	0
Military Science II, Mil. 201, 202, 203 (or elective†)	2	2	2
Sport Activities, P.E. 201, 202, 203	1	1	1
Sophomore Year	21	21	21

Junior Year

Engineering Mechanics, E.M. 313	3	0	0
Strength of Materials, E.M. 321, 322	0	3	3
Materials Testing Laboratory, C.E. 322	0	1	0
Materials of Construction, C.E. 321	1	0	3
Sanitary and Mech. Equipment of Buildings, C.E. 365, 366	3	3	0
General Economics, Econ. 201, 202, 203	3	3	3
Freehand Drawing 1, 2, 3, Arch. 101, 102, 103	2	2	2
Intermediate Design B-1, B-2, B-3, Arch. 301, 302, 303	3	3	3
History of Architecture 1, 2, 3, Arch. 321, 322, 323	3	3	3
**Electives	3	3	3
Junior Year	20	21	20

Summer Requirements: Six Weeks Industrial Employment.

Senior Year

Reinforced Concrete, C.E. 421, 422	3	3	0
Graphic Statics, C.E. 423, 424, 425	1	1	1
Theory of Structures, C.E. 431a, 432a	3	3	0
Photographic Practice, Arch. 304	0	0	1
Specifications, Arch. 416	0	0	3
Building Materials I, Arch. 409	2	0	0
Electrical Equipment of Buildings, E.E. 343	0	0	3
Business Law, Econ. 307	2	0	0
Architectural Design, E-1, E-2, Arch. 351, 352	3	3	0
Architectural Office Practice, Arch. 411, 412	0	3	3
Architectural Estimates, Arch. 408	0	0	2
Structural Design, C.E. 426, 427	0	3	3
**Electives	3	3	3
Senior Year	19	19	19

Total credits required for completion of course: 241. Degree: Bachelor of Architectural Engineering.

All seniors will be required to go on the inspection trip as part of their curriculum.

* Students who have been certified by the Department of English as proficient in English may substitute for the course listed French, M.L. 101.

† Or six credits in one or two of the following Departments: Economics, Psychology, History and Political Science, Modern Languages, Sociology.

** To be selected from the following fields: Humanities, Military Science III and IV, Language and Literature, Pure Mathematics, Pure Natural Science, and Social Science.

CURRICULUM IN ARCHITECTURE

Freshman or First Year

COURSES	CREDITS First Term	Second Term	Third Term
Mathematics 101, 102, 103	6	6	6
Composition, Eng. 101, 102, 103	3	3	3
French, or Modern Language, M.L. 101, 102, 201, or Equiv.	3	3	3
Pencil Sketching, Arch. 100	1	1	1
World History, Hist. 104	2	2	2
Architectural Drawing, Arch. 107 (or M.E. Equivalent)	3	3	0
Descriptive Geometry, M.E. 107	0	0	3
Military Science I, Mil. 101, 102, 103 (or elective†)	2	2	2
Fundamental Activities and Hygiene, P.E. 101, 102, 103	1	1	1
Freshman or First Year	21	21	21

Summer Requirements: Surveying, C.E. s200, 3 credits.

Sophomore or Second Year

Calculus I, II, III, Math. 201, 202, 303	4	4	4
Background for Modern Thought (or Elective)	3	3	3
Physics for Engineers, Phys. 201, 202	4	4	0
Shades and Shadows, Arch. 205	2	0	0
Engineering Mechanics, E.M. 301, 302	0	3	3
Elements of Architecture I, II, III, Arch. 201, 202, 203	3	3	3
History of Sculpture and Mural Decoration, Arch. 325	0	0	2
Working Drawings, Arch. 305	0	0	2
Perspective Drawing, Arch. 206	1	0	0
Military Science II, Mil. 201, 202, 203 (or elective†)	2	2	2
Sport Activities, P.E. 201, 202, 203	1	1	1
Sophomore or Second Year	20	20	20

Junior or Third Year

Business English, Pub. Speaking, Eng. 211, 231, and Elective English (or M.L.)	3	3	3
Strength of Materials, E.M. 321, 322	0	3	3
Materials Testing Laboratory, C.E. 322	0	1	0
Materials of Construction, C.E. 321	3	0	0
Sanitary and Mech. Equip. of Buildings, C.E. 365	3	0	0
Freehand Drawing 1, 2, 3, Arch. 101, 102, 103	2	2	2
Architectural Office Practice, Arch. 411, 412	1	3	3
Intermediate Design B-1, B-2, B-3, Arch. 301, 302, 303	3	3	3
History of Architecture 1, 2, 3, Arch. 321, 322, 323	3	3	3
**Electives	3	3	3
Junior or Third Year	20	21	20

Summer Requirements: Six Weeks Industrial Employment.

Senior or Fourth Year

General Economics, Econ. 201, 202, 203	3	3	3
Reinforced Concrete, C.E. 421, 422	3	3	0
Graphic Statics, C.E. 423, 424, 425	1	1	1
Electrical Equipment of Buildings, E.E. 343	0	0	3
Architectural Design B-4, B-5, B-6, Arch. 353, 354, 355	6	6	6
History of Architecture 4, Arch. 421	0	3	0
Building Materials I, Arch. 409	3	0	0
Professional Practice, Arch. 414	0	0	1
Clay Modeling, Arch. 114	1	1	1
Photographic Practice, Arch. 304	0	0	1
**Electives	3	3	3
Senior or Fourth Year	20	20	19

† Or six credits in one or two of the following Departments: Economics, Psychology, History and Political Science, Modern Languages, Sociology.

** To be selected from the following fields: Humanities, Military Science III and IV, Language and Literature, Pure Mathematics, Pure Natural Science, and Social Science.

Professional or Fifth Year

COURSES	CREDITS First Term	Second Term	Third Term
Business Law, Econ. 307	3	0	0
Specifications, Arch. 416	0	0	3
Theory of Structures, C.E. 431a, 432a	3	3	0
Architectural Design A-1, A-2, A-3, Arch. 401, 402, 403	6	6	6
Freehand Drawing 4, 5, 6, Arch. 211, 212, 213	3	3	3
Architectural Composition, Arch. 407	2	0	0
City Planning, Arch. 415	0	2	0
Architectural Estimates, Arch. 408	0	0	2
**Electives	3	6	6
Fifth Year	20	20	20

Total Credits: 306. Completion of the course to be recognized by granting the degree of Bachelor of Architecture.

CERAMIC ENGINEERING

Professor A. F. Greaves-Walker, Head of the Department; Associate Professors W. W. Kreigel, R. L. Stone.*

The Department of Ceramic Engineering occupies its own building, which contains classrooms, a design room, a chemical laboratory, an equipment laboratory, and a kiln laboratory.

The Equipment Laboratory contains an adequate variety of machines for preparing and processing ceramic bodies of all kinds and making ceramic products on a laboratory scale. It also contains the necessary equipment for carrying on ceramic research, and the testing of materials and products.

The Kiln Laboratory contains twelve kilns and furnaces of different types, which provide for the firing or testing of all ceramic materials and products.

Ceramic Engineering includes those phases of engineering which have to do with the study of the nonmetallic, inorganic minerals, except fuels and ores as such, and the manufacture of products therefrom. The nonmetallic minerals compose over 90 per cent of the earth's surface, and the industries based on them rank above the automobile, and the iron and steel industries, in value of product. Principal among these products are those made of clay and associated minerals, such as building brick, hollow tile, sewer pipe, refractories, wall and floor tile, tableware, pottery, electrical porcelain, chemical and sanitary stoneware, flat glass, chemical and table glassware, enameled iron and steel, portland and hydraulic cements, and limes.

North Carolina has enormous deposits of shale, clay, kaolin, feldspar, sand, limestone, and other ceramic minerals, equal in quality to any others in the United States; with the introduction of modern processes and methods will produce in future quantities of ceramic products and adequately develop its ceramic industries.

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* On leave.

** To be selected from the following fields: Humanities, Military Science III and IV, Language and Literature, Pure Mathematics, Pure Natural Science, and Social Science.

The demand for ceramic engineers has far exceeded the supply for a number of years past, there being fewer than 100 ceramic engineers graduated in the United States each year. It is with the idea of supplying this demand and developing the latent resources of North Carolina that a four-year curriculum in Ceramic Engineering, leading to the degree of Bachelor of Ceramic Engineering, is offered.

The instruction in Ceramic Engineering is enriched by the intensive investigation of ceramic resources and manufactures constantly under way in connection with the Engineering Experiment Station. Students will have the great advantage of these investigations along with other instruction.

Courses in advanced subjects for graduate students are offered in Advanced Refractories and Furnaces, Industrial Adaptability of Clays, Designing of Ceramic Equipment and Plants, Advanced Silicate Technology, Glass Technology, and Ceramic Research.

The curriculum in Ceramic Engineering, which has been accredited by the Engineers Council for Professional Development, contains fundamental courses, and courses in Ceramic, Geological, Civil, Electrical, and Mechanical Engineering, as well as in Economics, to provide for the general training in engineering with the particular study of Ceramic Engineering. The Ceramic Engineering courses consist of the theoretical and practical study of the mining, manufacturing, and testing of ceramic materials and products as well as the design of ceramic equipment and plants.

Graduates in Ceramic Engineering are employed in the ceramic industries as plant executives, research engineers, plant-control engineers, sales engineers, product-control engineers, plant designers and constructors, equipment manufacturers, consulting engineers, and ceramic chemists and technologists. Graduates of the Department at State College, which ranks fourth in registration in the United States, are successfully holding positions in all of these branches.

CURRICULUM IN CERAMIC ENGINEERING

For the Freshman Year, refer to page 106.

Surveying, C.E. s200, 3 credits, is required in the summer immediately following the freshman year.

Sophomore Year

COURSES	CREDITS First Term	Second Term	Third Term
Calculus I, II, III, Math. 201, 202, 303	4	4	4
Qualitative Analysis, Chem. 211	4	0	0
Quantitative Analysis, Chem. 212	0	4	0
Physics for Engineers, Phys. 201, 202, 203	4	4	4
Engineering Geology, Geol. 220	3	0	0
Mineralogy, Geol. 230	0	0	3
*Business English, Public Speaking, Eng. 211, 231, and Elective English	3	3	3
Ceramic Materials, Cer. E. 202	3	3	0
Ceramic and Mining Processes, Cer. E. 203	3	3	3
†Military Science II, Mil. 201, 202, 203	2	2	2
Sport Activities, P.E. 201, 202, 203	1	1	1
	21	21	20

* Students who have been certified by the Department of English as proficient in English may substitute for the courses listed Elementary German, M.L. 102.

† Or six credits in one or two of the following Departments: Economics, Psychology, History and Political Science, Modern Languages, Sociology.

Junior Year

COURSES	CREDITS First Term	Second Term	Third Term
Engineering Mechanics, E.M. 311, 312, 313	3	3	3
Strength of Materials, E.M. 321	0	0	3
General Economics, Econ. 201, 202, 203	3	3	3
Drying Fundamentals and Practice, Cer. E. 301	3	0	0
Firing Fundamentals and Practice, Cer. E. 302	0	3	0
Ceramic Calculations, Cer. E. 303	0	0	3
Ceramic Products, Cer. E. 305	0	0	2
Engineering Thermodynamics, M.E. 307, 308	3	3	0
Mechanical Engineering Laboratory I, M.E. 313, 314	1	1	0
Materials Testing Laboratory, C.E. 322	0	1	0
Thermal Mineralogy, Geol. 338	0	3	0
Physical Chemistry, Chem. 331	5	0	0
Business Law, Econ. 307	0	0	3
**Electives	3	3	3
	21	20	21

Summer requirements: Six weeks industrial employment.

Senior Year

Refractories, Cer. E. 405	0	0	3
Silicates, I and II, Cer. E. 403, 404	3	3	0
Ceramic Laboratory, Cer. E. 411, 412, 413	3	3	3
Ceramic Designing, Cer. E. 414, 415	0	4	4
Pyrometry, Cer. E. 401	1	0	0
Technical Writing I, Eng. 321	3	0	0
Elements of Electrical Engineering I, E.E. 320, 321	0	3	3
Strength of Materials, E.M. 322	3	0	0
Optical Mineralogy, Geol. 431, 432, 433	3	3	3
**Electives	3	3	3
	19	19	19

All seniors are required to go on the inspection trip as part of their curriculum.

CHEMICAL ENGINEERING

Professor E. M. Schoenborn, Head of the Department

Professors B. E. Lauer, T. C. Doody, E. E. Randolph; Associate Professor R. Bright; Assistant Professor J. F. Seely; Instructor R. L. Overcash.†

Facilities. The laboratories of the Department of Chemical Engineering are in Winston Hall. They consist of a Unit Operations laboratory; an exhibit study room; Water and Engineering-Materials Laboratory; Electrochemical Engineering Laboratory; Fuel- and Gas-Technology Room; Experimental Rayon outfit; Destructive Distillation Installation; Dark Room for metallographic and micro-photographic study; the Graduate Research Laboratory; Unit-Processes Laboratory; Plant- and Equipment-Design Laboratory; Cellulose Laboratory.

The Chemical Engineering laboratories have suitable equipment, much of it specially designed. for the study of the main processes and plant prob-

† On leave.

* On leave to U. S. Army.

** To be selected from the following fields: Humanities, Military Science III and IV, Language and Literature, Pure Mathematics, Pure Natural Science, and Social Science.

lems of the chemical engineering industries. They are supplied with direct and alternating current, gas, water, steam, compressed air, electric motors, generators, and storage batteries. They are equipped with precision and control instruments, such as refractometer, surface-tension apparatus, polariscope, potentiometer, microscopes, colorimeter, calorimeters, tint-photometer, thermocouples, and optical pyrometer. They are equipped also with filter presses, centrifuges, crushers, grinders and pulverizers, vacuum pan, stills, autoclave, jacketed kettle, gas, water, and electrical meters, equipment designed and built, such as double-effect evaporators, heat exchangers, flow-of-fluid experimental equipment for orifices, venturi meters, pitot tubes, weir, and gauges, column still, absorption tower, crystallizer, rotary, vacuum and tunnel driers, gas furnace, resistance and arc electric furnace, rotary vacuum filter, and humidifier. An experimental refinery and hydrogenation plant for vegetable and other oils has been installed. A complete permutit softening equipment forms a unit of an experimental water-purification and -treatment system. In addition the nearby industrial plants offer opportunity for study of plant operation and problems.

Recently added to the Department of Chemical Engineering is a valuable exhibit room, where products of many chemical engineering industries are exhibited and used for instruction. They are arranged in the form of flow sheets showing the various steps in manufacturing processes.

The Department Shop is supplied with machines and tools for building and repairing equipment.

Curriculum. This curriculum provides thorough training in unit operations and unit processes, and in the methods of manufacturing industrial chemical products on a large scale. It includes basic courses in Chemistry, Physics, Mathematics, and fundamental Engineering as a background for the professional Chemical Engineering training of this Department, so that the graduate is prepared to enter any field of applied chemical work as a junior engineer.

The Chemical Engineer is expected to determine the process, the material, the design, and the economic capacity of the equipment needed. Efficient production requires exact control in every stage of the process. He must devise efficient and economical methods, discover sources of loss and the remedy, recover by-products, convert waste products, and make industrial calculations of input, output, efficiency, quality, and cost.

North Carolina is a center of chemical industries in the South, with an annual output estimated at approximately one-fourth billion dollars. Some of the largest chemical industries of the country are located in this State, manufacturing such products as paper, fertilizers, vegetable oils, food products, leather, bromine, aluminum, metallurgical products, paints and varnishes. Such industries require properly trained Chemical Engineers. Chemical Engineering offers therefore inviting opportunities to render distinct service to the welfare and comfort of the people.

Graduates find employment in such fields as control work and industrial research; as plant operators, superintendents of chemical industries, municipal engineers, engineers in the State and Federal health service, consulting chemical engineers, manufacturers of chemicals and of chemical equipment, chemical salesmen and representatives, developers of new chemical industries.

Ninety-three percent of the graduates of this Department are successfully engaged in Chemical Engineering work. Because chemical problems are intricate, and scientific chemical-control work in industries is required, salaries for Chemical Engineering graduates are inviting. Many graduates of this Department now hold very responsible positions.

The Department coöperates with the State Departments in their chemical problems. Facilities are available for graduate work, upon which emphasis is placed.

CURRICULUM IN CHEMICAL ENGINEERING

For the Freshman Year, refer to page 106.

Sophomore Year

COURSES	CREDITS First Term	Second Term	Third Term
Calculus I, II, III, Math. 201, 202, 303	4	4	4
*Business English, Public Speaking, Eng. 211, 231, and Elective English	3	3	3
Introduction to Chemical Engineering, Chem. E. 201, 202, 203	1	1	2
Physics for Engineers, Phys. 201, 202, 203	4	4	4
Qualitative Analysis, Chem. 211	4	0	0
Quantitative Analysis, Chem. 212, 213	0	4	4
Shopwork, M.E. 122, 123	1	1	0
†Military Science II, Mil. 201, 202, 203	2	2	2
Sport Activities, P.E. 201, 202, 203	1	1	1
	20	20	20

Junior Year

Engineering Mechanics, E.M. 311, 312, 313	3	3	3
Strength of Materials, E.M. 321	0	0	3
Organic Chemistry, Chem. 421, 422, 423	4	4	4
Chemical Engineering I, Chem. E. 311, 312, 313	3	3	3
Industrial Stoichiometry, Chem. E. 331	0	0	3
Chemical Engineering Laboratory I, Chem. E. 321, 322, 323	1	1	1
Physical Chemistry, Chem. 431, 432	4	4	0
Elements of Electrical Engineering I, E.E. 320, 321	3	3	0
Machine Shop I, M.E. 225, 226	1	1	0
Electives	3	3	3
	22	22	20

Summer requirements: Six weeks industrial employment.

**Pilot Plant Practice—3 credits.

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* Students who have been certified by the Department of English as proficient in English may substitute for the courses listed German, M.L. 102, 103, 104, 203 or equivalent.

† Or six credits in one or two of the following Departments: Economics, Psychology, History, Modern Language, Sociology.

** Elective Summer of 1946.

Senior Year

COURSES	CREDITS First Term	Second Term	Third Term
Principles of Chemical Engineering, Chem. E. 411, 412, 413	3	3	3
Water Treatment, Chem. E. 421	3	0	0
Chemistry of Engineering Materials, Chem. E. 422	1	3	0
Electrochemical Engineering, Chem. E. 423	0	0	3
Chemical Engineering Lab. and Design II, Chem. E. 431, 432, 433	2	2	2
Engineering Thermodynamics, M.E. 307, 308	3	3	0
Mineralogy, Geol. 230	0	0	3
General Economics, Econ. 201, 202, 203	3	3	3
Elementary Modern Physics, Phys. 407	3	0	0
Technical Writing I, Eng. 321	0	3	0
Business Law, Econ. 307	0	0	3
Electives	3	3	3
	20	20	20

CIVIL ENGINEERING

Due to the present unstable conditions brought about by postwar reaction on engineering developments, the consolidated curriculum in Civil Engineering will be the only one offered until further notice.

Professor C. L. Mann, Head of the Department

Professor T. S. Johnson*

Associate Professors C. R. Bramer, R. E. Stiemke

Assistant Professors C. M. Lambe, W. F. Babcock

Instructor M. E. Ray

The Department of Civil Engineering is located in the Civil Engineering Building in which the offices, classrooms, laboratories, and instrument rooms were designed and built to provide suitable facilities for efficient teaching and laboratory demonstrations.

The equipment common to general civil engineering includes surveying instruments, transits, levels, plane tables, current meters, sextants, planimeters, calculating machines, blueprint apparatus, lantern slides, and moving-picture machine. Special equipment includes precise surveying instruments and such equipment as Beggs deformeter, contour finder and other of this class.

The equipment in the Physical-Testing Laboratory, in the Cement- and Bituminous-Materials-Testing Laboratory, and in the Sanitary Laboratory, fully meets the present-day requirements for laboratory instruction.

The Soil Mechanics Laboratory has been furnished and equipped with the newest apparatus now used in laboratories engaged in the study of the action of soils relative to engineering problems dealing with structures, foundations, highway subgrades, and soil stabilization.

Civil Engineering is the oldest and most general of all the branches of modern engineering; in fact, from it all of the others have developed. The usefulness of Civil Engineering is so well recognized that a student who does not have a strong predilection for some other special branch may be safely advised to study Civil Engineering.

* On leave.

The Civil Engineering curriculum in the School of Engineering has been accredited by the Engineers' Council for Professional Development. It is a well-balanced course of study, upon the completion of which the graduate is equipped to assume the duties of junior engineer in any of the following important fields: design, construction, operation, or testing of water-power developments, railroads, highways, water supplies, sewerage systems.

The Civil Engineering Department offers a student the choice of the following options:

General Civil
Construction and Building Materials
Sanitary
Transportation

The first two years of these curricula are the same. They begin to differentiate slightly in the junior year and more decidedly in the senior year; essentially, however, they are the same and are designed to develop in the student engineer a well-trained mind, one which reasons logically, accurately, quickly. This is accomplished by a thorough training in applied mathematics and physics, which is supplemented with practical work in the field, drafting rooms, and laboratories.

More men are practicing Civil Engineering in North Carolina than any other branch of engineering, and it is to train young men to serve under those already in the profession and subsequently to follow in their footsteps that the Civil Engineering curricula are offered.

City Management.—Students in Civil Engineering may by proper selection of their electives during the junior and senior years prepare themselves for work eventually leading to the position of City Manager.

CONSTRUCTION & BUILDING MATERIALS ENGINEERING

Professor C. R. Bramer, Faculty Adviser

North Carolina's progress indicates great increase in building and general construction. Construction needs more and better-trained men to meet the immediate demands as well as to anticipate the increased demands of the future. The contractor, to be successful, must conduct his business systematically and economically. Therefore, he must learn not only general engineering technique, but also something of architecture and business methods and practices; he must delve further into construction and learn the principles involved, the methods, practices, and successful policies in use.

The contents of the curriculum in this option represent a thorough study of the needs of the industries operating in this field. This curriculum, combining construction with building materials, has been adopted to replace the former option in Construction Engineering given in the Department of Civil Engineering. It is believed that this will result in improving the training for men entering the field of contracting and construction and it also has the advantage of including subjects essential to those entering the building materials industry.

Combined into this curriculum are the fundamental courses in the Civil Engineering curriculum, courses in Architecture, courses dealing with business, and special courses covering construction and building materials in the junior and senior years.

The classroom work in this option is supplemented by frequent inspection trips to projects under construction; particular emphasis is placed upon estimating, modern methods, and management of operations.

SANITARY ENGINEERING

Professor R. E. Stiemke, Faculty Adviser

Because Sanitary Engineering so vitally concerns the health of the people, and because of the progress in North Carolina in this field, the demand for men trained in Sanitary Engineering has increased.

The Sanitary Engineering option is offered to meet this need. In the main it is the curriculum in General Civil Engineering with selected courses in Bacteriology, Chemical Engineering, and Sanitary Engineering.

As there is a large demand in this State for men familiar with the design and operation of water and sewage plants, special attention is given to the actual design and practical operation of water-purification and sewage-disposal plants.

The Sanitary Engineering Laboratory equipment is similar to that used in water- and sewage-plant laboratories; the student makes the same tests, using standard methods, as are made in water- and sewage-plant laboratories.

The City of Raleigh water-purification plant and the College gymnasium swimming-pool filter plant are available for practical demonstration and instruction. Through the coöperation of the Bureau of Sanitary Engineering, State Board of Health, located in Raleigh, the student has an opportunity to study all phases of its works, not only in Sanitary Engineering, but also in the broad field of public health.

Upon graduation, students are prepared to hold positions as water and sewage-plant operators, assistant resident engineers with private consulting engineers, junior engineers with state boards of health, and with the United States Public Health Service. After a few years of experience, graduates may be expected to advance to positions as superintendents of waterworks, city engineers and city managers, consulting engineers, state sanitary engineers, and senior engineers with the United States Public Health Service.

The curriculum of the Sanitary Engineering Option has been reviewed and the Laboratory and equipment inspected by the Engineers' Council for Professional Development. The Council has indicated its approval by accrediting this option.

TRANSPORTATION ENGINEERING

Professor W. F. Babcock, Faculty Adviser

Advancement in study and improvements in construction in the ways and means of modern-day travel have progessed so rapidly in the last decade

that each division presents a field of study and investigation of its own. The railways, the highways, the inland waterways, and the airways, each performing to some extent a specific purpose, have covered our country with a transportation system far superior to any other in the world.

In order that young engineers may be trained to carry on and continue this expansion, specialized training in colleges must be available to students who wish to follow in this field.

Among the first college curriculum subdivision in the civil engineering profession was railroad engineering; this was followed by highway engineering; now that airplane travel has become so essential, it is found necessary to associate this means of travel with railroads and highways. With this in mind, the Department of Civil Engineering is offering the option Transportation Engineering, which includes a study of railroad maintenance of way, highway location and pavement design, economics of locations, waterways, airports, public relations and regulations, coordination of the different forms of transportation.

The curriculum of this option replaces the option formerly offered in Highway Engineering and follows along the same lines, broadening the scope of study to cover the field of transportation. The curriculum for the first two years is identical with and for the third year is practically the same as the regular Civil Engineering curriculum. In the fourth year, however, the student who specializes in Transportation Engineering is given more specific instructions in those subjects pertaining to the various means of transportation.

CURRICULUM IN CIVIL ENGINEERING

General Civil Engineering — Construction and Building
Sanitary Engineering — Materials Engineering
Transportation Engineering

For the Freshman Year, refer to page 106.

Sophomore Year

COURSES	CREDITS First Term	Second Term	Third Term
Calculus I, II, III, Math. 201, 202, 303	4	4	4
*Business English, Public Speaking, Eng. 211, 231, and Elective English	3	3	3
Physics for Engineers, Phys. 201, 202, 203	4	4	4
Engineering Geology, Geol. 220	3	0	0
Theoretical Surveying, C.E. 221, 222, 223	3	3	3
Field Surveying, C.E. 225, 227	1	0	1
Mapping, C.E. 226	0	1	0
Engineering Mechanics, E.M. 311, 312	0	3	3
†Military Science II, Mil. 201, 202, 203	2	2	2
Sport Activities, P.E. 201, 202, 203	1	1	1
	21	21	21

Surveying, C.E. s310, concurrent with Summer School, 3 credits.

* Students who have been certified by the Department of English as proficient in English may substitute for the courses listed Elementary French, M.L. 101, 102, 201, or equivalent.

† Or six credits in one or two of the following Departments: Economics, Psychology, History and Political Science, Modern Languages, Sociology.

Junior Year

Required

COURSES	CREDITS First Term	Second Term	Third Term
Engineering Mechanics, E.M. 313	3	0	0
Strength of Materials, E.M. 321, 322	0	3	3
Materials of Construction, C.E. 321	3	0	0
General Economics, Econ. 201, 202, 203	3	3	3
	9	6	6

Choice must be made of one of the following:

GENERAL CIVIL OPTION

Elements of Electrical Engineering, E.E. 320, 321	3	3	0
Technical Writing I, Eng. 321	3	0	0
Transportation Engineering I, C.E. 372, 373	0	3	3
Fluid Mechanics, E.M. 330	0	3	0
Hydraulics, C.E. 343	0	0	3
Engineering Thermodynamics, M.E. 307	0	0	3
Electives	3	6	3
	18	21	18

CONSTRUCTION AND BUILDING MATERIALS OPTION

Construction Engineering I, C.E. 362, 363	0	3	3
Sanitary and Mechanical Equipment of Buildings, C.E. 365	3	0	0
Specifications, C.E. 367	0	0	3
Architectural Details, Arch. 306	0	0	2
Building Materials, Arch. 409, 410	0	3	3
Principles of Accounting, Econ. 301, 302	3	3	0
Applied Psychology for Engineers, Psychol. 335, 336	3	3	0
[1]Electives	3	3	3
	21	21	20

SANITARY OPTION

Elements of Electrical Engineering, E.E. 320, 321	3	3	0
Transportation Engineering I, C.E. 372, 373	0	3	3
Fluid Mechanics, E.M. 330	0	3	0
Hydraulics, C.E. 343	0	0	3
General Bacteriology, Bot. 402	0	4	0
Aquatic Biology, Bot. 473	0	0	2
Sanitary Engineering, C.E. 383	0	0	3
Treatment of Water and Sewage, Chem. E. 308	3	0	0
Electives	3	3	3
	18	22	20

TRANSPORTATION OPTION

Elements of Electrical Engineering, E.E. 320, 321	3	3	0
Transportation Engineering I, C.E. 372, 373	0	3	3
Fluid Mechanics, E.M. 330	0	3	0
Hydraulics, C.E. 343	0	0	3
Engineering Thermodynamics, M.E. 307	0	0	3
Accounting for Engineers, Econ. 212	3	0	0
Business Law, Econ. 307	0	3	0
Technical Writing I, Eng. 321	0	0	3
Electives	6	3	3
	21	21	21

[1] To be selected from the following fields: Humanities, Military Science III and IV, Language and Literature, Pure Mathematics, Pure Natural Science, and Social Science.

Senior Year

Required

COURSES	CREDITS First Term	Second Term	Third Term
Reinforced Concrete, C.E. 421, 422	3	3	0
Graphic Statics, C.E. 423	1	0	0
Theory of Structures, C.E. 431, 432	3	3	0
Structural Design, C.E. 426, 427	0	3	3
	7	9	3

Choice must be made of one of the following:

GENERAL CIVIL OPTION

Materials Testing Laboratory, C.E. 322, 323	0	1	1
Applied Astronomy, C.E. 453	4	0	0
Transportation Engineering II, C.E. 471, 472	0	3	0
Sanitary Engineering Laboratory, C.E. 481, 482	1	1	0
Waterworks, C.E. 485	3	0	0
Sewerage, C.E. 486	0	3	0
Soil Mechanics, C.E. 435	0	0	3
Aerial Surveying, C.E. 455	0	0	3
Business Law, Econ. 307	0	0	3
Electives	3	3	6
	21	20	19

CONSTRUCTION AND BUILDING MATERIALS OPTION

Elements of Electrical Engineering, E.E. 320, 321	3	3	0
Electrical Equipment of Buildings, E.E. 343	0	0	3
Construction Engineering II, C.E. 461, 462, 463	3	3	3
Marketing Methods and Sales Management, Econ. 311, 312, or Corporation Finance, Econ. 320, and Labor Problems, Econ. 331	3	3	0
Personnel Management, Econ. 333	0	0	3
Business Law, Econ. 307	0	0	3
[1]Electives	3	3	3
	19	21	18

SANITARY OPTION

Materials Testing Laboratory, C.E. 322, 323	0	1	1
Soil Mechanics, C.E. 435	0	0	3
Sanitary Engineering Laboratory, C.E. 481, 482	1	1	0
Waterworks, C.E. 485	3	0	0
Sewerage, C.E. 486	0	3	0
Water Purification, C.E. 488	0	3	0
Sewage Disposal, C.E. 489	0	0	3
Financing of Sanitary Utilities, C.E. 483	0	0	3
Business Law, Econ. 307	3	0	0
Technical Writing I, Eng. 321	0	0	3
Electives	6	3	3
	20	20	19

TRANSPORTATION OPTION

Materials Testing Laboratory, C.E. 322, 323	0	1	1
Applied Astronomy, C.E. 453	4	0	0
Transportation Engineering II, C.E. 471, 472	3	3	0
Transportation Design, C.E. 473	2	0	0
Highway Engineering, C.E. 474, 475	0	3	3
Soil Mechanics, C.E. 435	0	0	3
Business Organization, Econ. 305	0	0	3
Electives	3	3	6
	19	19	19

NOTE: Until further notice, the above junior and senior curricula will be superseded by the consolidated curriculum shown on the following page.

JUNIOR AND SENIOR CONSOLIDATED CURRICULUM IN CIVIL ENGINEERING*

Junior Year

COURSES	CREDITS First Term	Second Term	Third Term
Engineering Mechanics, E.M. 313	3	0	0
Strength of Materials, E.M. 321, 322	0	3	3
Elements of Electrical Engineering, E.E. 320, 321	3	3	0
Materials of Construction, C.E. 321	3	0	0
Fluid Mechanics, E.M. 330	0	3	0
Hydraulics, C.E. 343	0	0	3
Transportation Engineering I, C.E. 372, 373	3	3	0
Transportation Engineering II, C.E. 471	0	0	3
Technical Writing I, Eng. 321	0	3	0
Engineering Thermodynamics, M.E. 307	0	0	3
General Economics, Econ. 201, 202, 203	3	3	3
Electives	3	3	3
	18	21	18

Senior Year

Reinforced Concrete, C.E. 421, 422	3	3	0
Graphic Statics, C.E. 423	1	0	0
Structural Design, C.E. 426, 427	0	3	3
Theory of Structures, C.E. 431, 432	3	3	0
Soil Mechanics, C.E. 435	3	0	0
Applied Astronomy, C.E. 453	0	0	4
Aerial Surveying, C.E. 455	0	0	2
Sanitary Engineering Laboratory, C.E. 481, 482	1	1	0
Waterworks, C.E. 485	2	0	0
Sewerage, C.E. 486	0	2	0
Materials Testing Laboratory, C.E. 322, 323	1	1	1
Construction Engineering I, C.E. 362, 363		3	0
Specifications, C.E. 367	0	0	3
Business Law, Econ. 307	0	0	3
Electives	3	3	3
	20	20	20

DIESEL ENGINEERING

In co-operation with the Navy Department, the college recently has completed a new Diesel Engineering Laboratory Building. The building cost approximately $200,000 and the naval equipment installations are complete and modern.

The facilities of the Diesel Laboratory are now being devoted entirely to the war program through the training of officers for Diesel propelled ships in the United States Navy.

It is anticipated at the termination of the war that the building and equipment will be available for regular college instruction including both basic fundamental courses for undergraduate students and special courses in design, production, and research for graduate students.

Beginning students interested in this field, for the present, register in Mechanical Engineering. Diesel Engineering is a specialty within this field and the facilities for Diesel instruction will undoubtedly be available for civilian students by the time they have received their fundamental training in Mechanical Engineering.

* Due to the present unstable conditions brought about by postwar reaction on engineering developments, this curriculum will be effective until further notice.

DEPARTMENT OF ELECTRICAL ENGINEERING

C. G. Brennecke, Head to the Department

Professors William Hand Browne, Jr., J. E. Lear; Associate Professors R. R. Brown, K. B. Glenn, L. M. Keever; Assistant Professors R. J. Pearsall, E. W. Winkler; Laboratory Technician J. H. Nichols.

Buildings and Equipment. The Department is housed in Daniels Hall. This is an L-shaped building, the main part of which is four stories of brick, stone and steel construction, with a two-story wing of shop construction.

Laboratories. The laboratories can be classified as follows: Dynamo, Communications and Transmission; Photometric, Measurements, Standards, High-Tension, and Electronics. The Dynamo, High-Tension, and Electronics Laboratories are located in the wing; all the others are in the basement of Daniels Hall.

The **Dynamo Laboratory** is sixty by eighty feet in area. Here the characteristics and operating conditions of representative types of machines are studied. This laboratory has a total of approximately 300 kva of motors and generators (about 50 in all). There are about 150 kilowatts available in motor-generator sets, and rotary converters.

There are also available approximately 150 kva of transformers for tests.

The laboratory is well supplied with accessory equipment, such as load units, field rheostats, starting boxes, prony brakes, inductances, capacitors, and other devices.

The **Communications and Transmission Laboratory** is equipped for measurements and tests on communication and power-transmission circuits. It contains an outstanding artifical power-transmission line on which power-transmission-line characteristics can be duplicated for study and testing. A complete long-line telephone system, with two two-way repeaters and associated apparatus, arranged for all usual and several special tests, is another feature of this laboratory. Other equipment for study and test includes an artificial line for the study of corona effects, artificial telephone lines, telephone central-station equipment, telegraph equipment, teletype-writer equipment, and a complete 100-line private automatic exchange with its associated appliances. Test equipment includes standard oscillators, transmission-measuring sets, noise-measuring sets, power-level instruments, audibility meters, attenuators, and apparatus for measuring distortion.

The **Photometric Laboratory** is housed in a room especially fitted up for the purpose. The equipment includes photometric standard lamps, two 300-cm. Leeds & Northrup photometer bars, a 36" Ulbrecht spherical photometer, two Macbeth-Evans Illuminometers, several Weston foot-candle meters, and other portable photometers. There is also the usual list of accessories, such as sight boxes of the Lummer-Brodhun and flicker types, rotating disks, and screens.

The Measurements Laboratory is arranged for making standard and special tests and measurements on the fundamental electrical units. The apparatus includes standards of resistance, inductance and capacitance, with special bridges for the measurement of each, Fahy permeameter and Epstein core-loss test sets for magnetic measurements on iron and steel, a double-bridge and oil-bath arrangement for conductivity measurements, and other special test appliances.

The Standards Laboratory is arranged for making accurate calibration tests on all types of electrical instruments. There are two specially designed test tables equipped with convenient means of controlling current and voltage. A large number of high-quality instruments of all types is provided. These include standard cells, a Leeds-Northrup Type-K and a Queen-Gray Potentiometer, standard voltmeters, ammeters, wattmeters, watt-hour meters, transformers, resistances, condensers and inductances. Certificates of accuracy from the National Bureau of Standards in Washington, D. C., have been obtained for many of these instruments. Special equipment used includes a sine-wave generator, a constant-speed frequency set, Silsbee current- and potential-transformer test sets, and others.

The High-Tension Laboratory has a $7\frac{1}{2}$ kva, 50,000-volt, and a 10-kva, 100,000-volt transformer. The induction regulators, which go with these transformers make it possible to vary the voltage from zero to 150,000 volts. There is also standard oil-testing equipment for testing transformer oil, a standard spark gap, and numerous insulators of various types for carrying on routine tests. Frequent use is made of the cathode-ray oscillograph in studying surges and other disturbances.

The Electronics Laboratory.—The Electronics Laboratory is arranged for testing electronic devices and their associated equipment and circuits. It is supplied with the various types of electron tubes, including vacuum tubes, gaseous tubes, phototubes, mercury-vapor tubes, cathode-ray tubes, and apparatus for operating and testing them. The test equipment includes vacuum-tube bridge and test sets, oscilloscopes, television equipment, and the various sensitive instruments required for electronic measurements.

Instrument Room and Shop. A centrally located Instrument Room serves all of the laboratories. Instruments are issued upon requisition and returned at the end of the laboratory period. They are kept in repair by a competent man, who divides his time between the care of the instruments and the Departmental Shop, which adjoins the Instrument Room. **The Shop** is fitted up with sufficient tools for making all minor repairs to laboratory equipment, as well as apparatus for special research.

The Storage-Battery Room contains two 120 volt, 100 ampere hour batteries; two 12-volt, 200-ampere-hour batteries, the complete battery and counter emf cells for operating the automatic telephone station, and port-table cells of various types. Motor-generator sets, and mercury-vapor and tungar rectifiers are provided for charging the batteries.

The Purpose of the Curriculum is to train young men for active work in a wide and diversified field. The electrical industry demands, above all else, a thorough preparation in the sciences underlying all branches of engineering, a broad foundation in fundamental electrical theory, and a clear understanding of the characteristics of electrical machinery and systems. These factors are essential for success, whether it be in the design and manufacture of electrical equipment, in power production and utilization, or the fields of communication and signaling, since in all these branches of the industry technical advances are being made with increasing rapidity. With this object in view, the curriculum in Electrical Engineering includes comprehensive training in mathematics, physics, and chemistry the fundamental sciences—and adequate training in allied branches of engineering. All courses are accompanied by coördinated work in the laboratory and intensive drill in the applications of theory by means of carefully planned problems. In the senior year, the student is offered two options, one in the fundamentals of communication, the other in the field of industrial applications.

The curriculum includes a thorough drill in the preparation of technical reports. There is a decided trend in industry to select for high administrative positions men who have had good technical training and have in addition developed executive ability. The electives included in the curriculum in Electrical Engineering enable a student inclined toward executive work to take nonprofessional courses which deal with the economic and sociological problems of the day. On the other hand, those students who prefer the more technical phases of engineering can select electives specially helpful in that particular branch of the profession into which they wish to go. Students are urged to plan as early as possible a worth-while group of elective courses so chosen as to round out their curriculum.

Each student is also required to spend at least six weeks in satisfactory industrial employment before receiving his degree.

Close coördination in the work of the American Institute of Electrical Engineers is effected through a student branch at the College, which meets twice a month, through the State Section of the Institute, which meets several times during the year, and through the regional meetings of the Institute, one section of which is organized as a student-activities conference.

CURRICULUM IN ELECTRICAL ENGINEERING

For the Freshman Year, refer to page 106.

Surveying, C.E. s200, 3 credits, is required in the summer immediately following the freshman year.

Sophomore Year

COURSES	CREDITS First Term	Second Term	Third Term
Calculus I, II, III, Math. 201, 202, 303	4	4	4
Physics for Engineers, Phys. 201, 202, 203	4	4	4
*Business English, Public Speaking, Eng. 211, 231, and Elective English	3	3	3
General Economics, Econ. 201, 202, 203	3	3	3
Forge and Welding Practice, M.E. 128	2		2
†Electrical Engineering Fundamentals, E.E. 201, 202	2	3	0
‡Military Science II, Mil. 201, 202, 203	2	2	2
Sport Activities, P.E. 201, 202, 203	1	1	1
	20	20	20

Junior Year

Engineering Mechanics, E.M. 311, 312, 313	3	3	3
Elementary Mechanism, M.E. 215, 216, 217	1	1	1
Engineering Thermodynamics, M.E. 307, 308, 309	3	3	3
Mechanical Engineering Laboratory I, M.E. 313, 314, 315	1	1	1
Fundamentals of Electronics, E.E. 315	0		3
Differential Equations, Math. 431a	3	3	0
Elementary Modern Physics, Phys. 407	0	3	0
Electrical Engineering, E.E. 301, 302, 303	4	4	4
Electrical Engineering Laboratory I, E.E. 311, 312, 313	2	2	2
Electives	3	3	3
	20	20	20

Summer requirements: Six weeks industrial employment.

Senior Year

Engineering Economics, I.E. 301	3	0	0
Accounting for Engineers, Econ. 212	0	3	0
Business Law, Econ. 307	0	0	3
Strength of Materials, E.M. 320	3	0	0
Electrical Industry, I.E. 402	0	3	0
Fluid Mechanics, Hydraulic Machinery, E.M. 330, 331	3	3	0
Illumination, E.E. 437	0	0	3
Technical Writing, Eng. 321	0	0	3
Alternating Current Machinery, E.E. 401, 402	1	1	0
Electric Transmission, E.E. 403	0	0	4
Electrical Engineering Laboratory, E.E. 411, 412, 413	2	2	2
First Option			
Electric Power Applications, E.E. 421, 422, 423		3	3
Electric Communication, E.E. 425, 426, 427	3	3	3
Second Option			
Electives	3	3	3
	21	21	21

NOTE: For the duration of the war the above curriculum will be superseded by the modified curriculum shown on the following page.

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* Students who have been certified by the Department of English as proficient in English may substitute for the courses listed a Modern Language.

† Sophomore class is divided into two sections, one half taking Fundamentals and Metal Work as scheduled, the other half taking the Metal Shop during the Fall Term and the Electrical Engineering Fundamentals the second and third terms.

‡ Or 6 credits in one or two of the following Departments: Economics, Psychology, History and Political Science, Modern Languages, Sociology.

CURRICULUM IN ELECTRICAL ENGINEERING

(Modified curriculum as now offered for the duration of the war)

For the Freshman Year, refer to page 106.

Surveying, C.E. s200, 3 credits, is required in the summer immediately following the freshman year.

Sophomore Year

COURSES	CREDITS First Term	Second Term	Third Term
Calculus I, II, III, Math. 201, 202, 303	4	4	4
Physics for Engineers, Phys. 201, 202, 203	4	4	4
*Business English, Public Speaking, Eng. 211, 231, and Elective English	3	3	3
General Economics, Econ. 201, 202	3	3	0
Forge and Welding Practice, M.E. 128	0	0	3
Electrical Engineering Fundamentals, E.E. 201, 202, 203	3	3	3
†Military Science II, Mil. 201, 202, 203	2	2	2
Sport Activities, P.E. 201, 202, 203	1	1	1
	20	20	20

Junior Year

Engineering Mechanics, E.M. 311, 312, 313	3	3	3
Elementary Mechanism, M.E. 215, 216, 217	1	1	1
Engineering Thermodynamics, M.E. 307, 308, 309	3	3	3
Mechanical Engineering Laboratory I, M.E. 313	1	0	0
Differential Equations, Math. 431a	3	0	0
Electrical Engineering, E.E. 301, 302, 303	4	4	4
Electrical Engineering Laboratory I, E.E. 311, 312, 313	2	2	2
Fundamentals of Electronics, E.E. 315, 316	0	4	4
Electives	3	3	3
	20	20	20

Summer requirements: Six weeks industrial employment.

Senior Year

Strength of Materials, E.M. 321	0	3	0
Engineering Economics, I.E. 301	3	0	0
Technical Writing, Eng. 321	0	0	3
Fluid Mechanics, E.M. 330	3	0	0
Alternating Current Machinery, E.E. 401, 402	4	4	0
Electric Transmission, E.E. 403	0	0	4
E.E. Laboratory, E.E. 411, 412, 413	2	2	2
Electric Communications E.E. 425, 426, 427	3	3	3
Ultra High Frequency Techniques, E.E. 445, 446, 447	4	4	4
Electives	3	3	3
	22	19	19

* Students who have been certified by the Department of English as proficient in English may substitute for the courses listed a Modern Language.

† Or six credits in one or two of the following Departments: Economics, Psychology, History and Political Science, Modern Language, Sociology.

GENERAL ENGINEERING

The Curriculum in Engineering Leading to the Degree, Bachelor of Science in Engineering

Professor G. Wallace Smith, Administrative Officer

We live in a world of applied science; for that reason, the cultured gentleman of the twentieth century must know something of Engineering.

Engineering is not only a means of earning a livelihood; it is also a culture, a manner of thinking and living. It is founded upon the pure sciences of Mathematics, Physics, and Chemistry. It deals largely with Materials, Methods, Men, and Money. There appears to be an increasing demand for a curriculum which will offer to young men the opportunity to study Engineering as a field of culture, with no specific purpose of specialization but solely with the idea of obtaining a well-balanced thoroughly rigorous training and discipline in the basic principles of Engineering. Largely for this reason this curriculum is offered, and it omits no essential foundation stone in the present recognized Engineering curricula. The freshman year is identical with the other Engineering curricula. The sophomore, junior, and senior years maintain the basic fundamental courses, but the special technical courses as required in the other Engineering curricula are replaced by electives, which may be chosen according to the major interest of the student. However, a number of these electives must be chosen from courses that are outside of the technical and special technical fields.

The advantages of this curriculum are:

The student acquires a broad training in the basic principles of Engineering.

He has more electives and more freedom in the choice of these electives than in the specialized curricula.

If the student upon entering college is in doubt as to what particular field of specialization he desires, this curriculum will enable him to start his academic training and complete his first full year without losing time or credits required in any of the specialized curricula.

In his second year the student will receive the basic training required of all the engineering curricula and have an opportunity to elect courses that will prepare him for future study in some particular field of specialization in which he might be interested.

The proper use of electives throughout the last three years will, therefore, enable the student to complete the requirements for a degree in this curriculum and at the same time obtain a considerable number of credits for use in some specialized curricula, so that he can return to school for not more than one year and receive a degree in the particular field of study in which he has become interested.

CURRICULUM IN GENERAL ENGINEERING

For the Freshman Year, refer to page 106.

Sophomore Year

COURSES	CREDITS First Term	Second Term	Third Term
Calculus I, II, III, Math. 201, 202, 303	4	4	4
Physics, Phys. 201, 202, 203	4	4	4
[1]Business English, Public Speaking, Eng. 211, 231, and Elective English	3	3	3
[2]Military Science II, Mil. 201, 202, 203 or Alternate	2	2	2
Sport Activities, P.E. 201, 202, 203	1	1	1
[4]Electives	6	6	6
	20	20	20

Junior Year[5]

Engineering Mechanics, E.M. 311, 312, 313	3	3	3
Strength of Materials, E.M. 321	0	0	3
Engineering Geology, Geol. 220	0	0	3
Thermodynamics, M.E. 307, 308	3	3	0
Mechanical Engr. Lab. I, M.E. 313, 314	1	1	0
Economics, Econ. 201, 202, 203, or other Social Science	3	3	3
[3]Military Science III, Mil. 301, 302, 303 or Alternate	3	3	3
[4]Electives	6	6	6
	19	19	21

Senior Year

Elements of Elect. Engr. I, E.E. 320, 321	0	3	3
Elements of Elect. Engr. Lab. II, E.E. 325, 326	0	1	1
Theory of Structures, C.E. 431, 432	0	3	3
Fluid Mechanics, E.M. 330	3	0	0
Accounting I, Econ. 301, 302, 303	3	3	3
Strength of Materials, E.M. 322	3	0	0
Business Law, Econ. 307	3	0	0
[3]Military Science IV, Mil. 401, 402, 403 or Alternate	3	3	3
[4]Electives	6	6	6
	21	19	19

[1] Students who have been certified by the Department of English as proficient in English may substitute for the courses listed a Modern Language.

[2] Or 6 credits in one or two of the following departments: Economics, Psychology, History and Political Science, Modern Languages, Sociology.

[3] To be selected from the following fields: Humanities, Military Science III and IV, Language and Literature, Pure Mathematics, Pure Natural Science, and Social Science.

[4] Free electives, except that not more than 39 term credits may be chosen from the technical or special technical courses in the School of Engineering.

[5] Students who contemplate the addition of a fifth year in Engineering for the purpose of obtaining a professional degree will consult the head of the department in which he intends to major and make such substitutions for the Engineering courses offered in this curriculum as are necessary for the satisfactory completion of the technical requirements of the degree sought.

GEOLOGICAL ENGINEERING

Professor Jasper L. Stuckey, Head of the Department

Assistant Professors John M. Parker,* E. L. Miller, Jr.

Function and Facilities.—The function of the Department of Geology is twofold: first, to offer service courses required as prerequisites in the Agricultural, Educational, and Engineering curricula; second, to administer the curriculum in Geological Engineering.

The classrooms, laboratories, and offices of the Department are in Primrose Hall. The equipment includes a varied collection of minerals, rocks, and fossils, illustrating the materials of different parts of the earth's crust; laboratory equipment for carrying on qualitative chemical and blowpipe examination of minerals and rocks; microscopes and other optical equipment; facilities for making thin sections of rocks and minerals; geological models; a collection of topographic maps and geologic folios illustrating important and typical areas in the United States; laboratory testing equipment for mineral preparation and concentration; equipment for geophysical exploration.

The Curriculum is designed to train young men in the fundamentals of engineering with its special application of geology. Many engineering undertakings, especially major construction projects, such as large dams and reservoirs, tunnels, large buildings, depend for success on exact knowledge of their geological setting. On the other hand, such geological problems as the economical development of mineral resources require the use of the precise methods of engineering. The curriculum combines these two sorts of information and training so necessary to success in this important specialized field.

Professional Outlook.—Geological engineering is a new and rapidly growing field of engineering. Geological engineers are unique in that a number of varied fields are open to them. They are in demand by State and Federal Surveys, by oil and mining companies for service here and abroad, by cities and municipalities, by engineering construction companies, by technical schools as teachers, and by many others.

For the young man who wants to live and practice his profession in the South this curriculum offers excellent training in the application of geological science to engineering construction, especially in foundations. The importance of this relationship has been emphasized in recent years by failures of engineering works such as dams, bridges, buildings, and highways, caused by the lack of thorough geological investigations.

The problem of supplying water to our growing cities and to the thousands of small communities and farms in the South is one that the geological engineer is well-trained to solve.

Many large cities have become aware of the importance of geological knowledge in subway construction, water distribution, building and bridge

* On leave.

foundations, etc., and have geological engineers to handle problems which arise from such work. In the future, more of this kind of underground exploration will be performed in the interests of safety and economy.

The greatly increased transportation of the world in the next few years will tax heavily all of our transportation facilities, and harbors, rivers, coastal erosion, inland waterways, highways, railroads, and airports will demand many geological engineers.

The Southeast offers tremendous possibilities to geological engineers who are interested in the mineral industries. Here in this region are deposits of iron, coal, phosphates, mica, feldspar, spodumene, copper, nickle, kaolin, cyanite, barite, limestone, pyrophyllite, marls, and other minerals.

A graduate of this curriculum is trained to follow two broad fields of engineering either in the United States or in foreign countries: one, the application of geology to engineering work, and the other, the application of geology in the mineral industries.

CURRICULUM IN GEOLOGICAL ENGINEERING

For the Freshman Year, refer to page 106.

Sophomore Year

COURSES	CREDITS First Term	Second Term	Third Term
Calculus I, II, III, Math. 201, 202, 303	4	4	4
*Business English and Public Speaking, Eng. 211, 231, and Elective English	3	3	3
Qualitative Analysis, Chem. 211	4	0	0
Quantitative Analysis, Chem. 212	0	4	0
Physics for Engineers, Phys. 201, 202, 203	4	4	4
Engineering Geology, Geol. 220	3	0	0
Historical Geology, Geol. 222	0	3	0
Mineralogy, Geol. 230	0	0	3
Geomorphology, Geol. 223	0	0	3
†Military Science II, Mil. 201, 202, 203	2	2	2
Sport Activities, P.E. 201, 202, 203	1	1	1
	21	21	20

Junior Year

Engineering Mechanics, E.M. 311, 312, 313	3	3	3
Fluid Mechanics, E.M. 330	0	0	3
Strength of Materials, E.M. 321	0	0	3
Elements of Electrical Engineering, E.E. 320, 321	3	3	0
Physical Chemistry, Chem. 331	5	0	0
Theoretical Surveying, C.E. 221, 222	3	3	0
Field Surveying, C.E. 225	1	0	0
Mapping, C.E. 226	0	1	0
Stratigraphy and Index Fossils, Geol. 361	3	0	0
Petrology, Geol. 443	0	0	4
Advanced Mineralogy, Geol. 332	0	3	0
Structural Geology, Geol. 352	0	4	0
Geophysics, Geol. 353	0	0	4
Electives	3	3	3
	21	20	20

* Students who have been certified by the Department of English as proficient in English may substitute Modern Language for the courses listed.

† Or six credits in one or two of the following departments: Economics, Psychology, History and Political Science, Modern Languages, Sociology.

Senior Year

COURSES	CREDITS First Term	Second Term	Third Term
General Economics, Econ. 201, 202, 203	3	3	3
Business Law, Econ. 307	0	3	0
Optical Mineralogy, Geol. 431, 432, 433	3	3	3
Engineering Thermodynamics, M.E. 307	3	0	0
Technical Writing I, Eng. 321	3	0	0
Economic Geology, Geol. 411, 412, 413	3	3	3
Advanced Engineering Geology, Geol. 462	0	3	0
Geological Surveying, Geol. 463	0	0	4
Mining Engineering, Mine Design, and Ore Dressing, Geol. 471, 472, 473	3	3	3
Electives	3	3	3
	21	21	19

INDUSTRIAL ENGINEERING

Under the supervision of the Mechanical Engineering Department until further notice.

North Carolina has an abundance of natural resources, and its industries are progressing steadily, which facts mean that there are increasing needs for educated personnel and informed leaders to deal with the complexities of modern industries.

Engineers have had a surprisingly large share in America's amazing industrial progress through their engineering knowledge and the adaptation of engineering methods and approach to the solution of industrial problems. To be even more effective in industry and modern life, engineers should, to their study of engineering, add knowledge of the economic and social sciences since they must deal, not only with the materials and forces of nature, but also with men, money, and affairs, in their industrial relations.

The aim of the curriculum in Industrial Engineering is to prepare students to enter the employ of industries as engineering graduates, then through experience, to develop into positions of responsibility and service, and thus to meet the demands of industries for men educated as engineers with special preparation for the activities of industries.

The curriculum provides thorough education in the fundamentals of engineering, with a three term course in each Mechanical and Electrical Engineering. Accounting, Economics, and Psychology are emphasized. The special technical courses apply engineering methods in the studies of industry, to the end that students may learn to make engineering, economic, and social analyses concurrently, and to apply them to the conduct of enterprises.

Electives from engineering and other courses, approved by the adviser, offer opportunity for the development of individual aptitudes. Students in Industrial Engineering get class and laboratory instruction from other

* On military leave.

Engineering Departments and from other courses, which are correlated and extended by the Industrial Engineering courses.

The classrooms and offices of Industrial Engineering are in rooms 125 to 132, on the first floor of 1911 Building.

The purpose of the Furniture Option is to train young men, who are interested in wood industries and want a practical and scientific insight into the production of furniture, to enter the field of actual production of modern furniture and to lay a foundation for future work as managers, or executives in the wood products industries.

CURRICULUM IN INDUSTRIAL ENGINEERING

(Due to the present unstable conditions brought about by postwar reaction on engineering developments, this curriculum will be effective until further notice.)

For the Freshman Year, refer to page 106.

Sophomore Year

COURSES	CREDITS First Term	Second Term	Third Term
Calculus I, II, III, Math. 201, 202, 303	4	4	4
*Business English, Public Speaking, Eng. 211, 231, and Elective English	3	3	3
Physics for Engineers, Phys. 201, 202, 203	4	4	4
General Economics, Econ. 201, 202, 203	3	3	3
Shopwork, M.E. 124, 125, 126	2	2	2
Industrial Organization, I.E. 101, 102, 103	3	3	3
†Military Science II, Mil. 201, 202, 203	2	2	2
Sport Activities, P.E. 201, 202, 203	1	1	1
	22	22	22

Junior Year

Engineering Mechanics, E.M. 311, 312, 313	3	3	3
Strength of Materials, E.M. 321	0	0	3
Engineering Thermodynamics, M.E. 307, 308, 309	3	3	3
Mechanical Engineering Laboratory I, M.E. 313, 314, 315	1	1	1
Machine Shop II, M.E. 227, 228, 229	1	1	1
Factory Equipment, M.E. 224	3	0	0
Principles Accounting, Econ. 301, 302, 303	3	3	3
Management Engineering, I.E. 201, 202, 203	3	3	3
Motion and Time Study, I.E. 322	0	3	0
Electives	3	3	3
	20	20	20

Summer requirement: Six weeks industrial employment.

Senior Year

Technical Writing I, Eng. 321	0	3	0
Business Law, Econ. 307	3	0	0
Industrial Psychology, Psychol. 338	0	0	3
Materials of Construction, C.E. 321	3	0	0
Elements of Electrical Engineering, E.E. 320, 321, 322	3	3	3
Electrical Engineering Laboratory, II, E.E. 325, 326, 327	1	1	1
Engineering Economics, I.E. 301	0	3	0
Electrical Industry, I.E. 402	0	3	0
Industrial Engineering Problems, I.E. 312, 313	0	3	3
Investigation and Report, I.E. 433	0	0	3
Electives	6	6	6
	19	19	19

* Students who have been certified by the Department of English as proficient in English may substitute Modern Language for the courses listed.

† Or six credits in one or two of the following departments: Economics, Psychology, History and Political Science, Modern Languages, Sociology, Ethics and Religion.

INDUSTRIAL ENGINEERING—FURNITURE OPTION

Under supervision of Mechanical Engineering Department until further notice.

For the Freshman Year, refer to page 106.

Sophomore Year

COURSES	Terms and Credits F	W	S
Calculus I, II, III, Math. 201, 202, 203	4	4	4
*Business English, Public Speaking, Eng. 211, 231, and Elective English	3	3	3
Physics for Engineers, Phys. 201, 202, 203	4	4	4
General Economics, Econ. 201, 202, 203	3	3	3
Shopwork, M. E. 124, 125, 126	2	2	2
Wood Technology, Forestry 201	3	0	0
Industrial Management, Econ. 325, 326	0	3	3
†Military Science, II, Mil. 201, 202, 203	2	2	2
Sports Activities, P. E. 201, 202, 203	1	1	1
	22	22	22

Junior Year

Engineering Mechanics, E. M. 311, 312	3	3	0
Strength of Materials, E. M. 321	0	0	3
Engineering Thermodynamics, M. E. 307, 308, 309	3	3	3
Mech. Eng. Lab. I, M. E. 313, 314, 315	1	1	1
Forest Products, Forestry 422	0	3	0
Lumber Seasoning and Grading, Forestry 321	3	0	0
Fabric Structure and Analysis, Textiles 235, 236	2	2	0
Fabric Testing, Textiles 343	0	0	1
Accounting, Econ. 212	3	0	0
Motion and Time Study, I. E. 322	0	3	0
Management Engineering, I. E. 201, 202, 203	3	3	3
Factory Layout and Equipment, M. E. 224	0	0	3
Electives	3	3	3
	21	21	17

Summer requirement: Six weeks industrial employment.

Senior Year

Technical Writing, I, Eng. 321	3	0	0
Business Law, Econ. 307	3	0	0
Industrial Psychology, Psychol. 338	0	0	3
Timber Preservation, Forestry 301	3	0	0
Plywood and Glue, Forestry 322	0	3	0
Labor Problems, Econ. 331	3	0	0
Industrial Relations, Econ. 332	0	3	0
Personnel Management, Econ. 333	0	0	3
Elements of Electrical Engineering, E. E. 320, 321, 322	3	3	3
Electrical Engineering Laboratory II, E. E. 325, 326, 327	1	1	1
Electrical Industry, I. E. 402	0	3	0
Industrial Engineering Problems, I. E. 312, 313	0	3	3
Engineering Economics, I. E. 301	0	0	3
Electives	3	3	3
	19	19	19

* Students who have been certified by the Department of English as proficient in English may substitute Modern Language for the courses listed.

† Or six credits in one or two of the following departments: Economics, Psychology, History and Political Science, Modern Languages, Sociology, Ethics and Religion.

MECHANICAL ENGINEERING

Professor L. L. Vaughan, Head of the Department

Professors H. B. Briggs, E. G. Hoefer, R. B. Rice, W. G. Van Note, F. B. Wheeler; Associate Professors W. S. Bridges, T. C. Brown, ** W. E. Selkinghaus; Assistant Professors W. E. Adams, R. L. Cope, P. B. Leonard; Instructors T. E. Hyde, W. Lowen, C. W. Maddison, W. G. Mendenhall, W. M. Neale, E. H. Stinson.

Purposes. The Mechanical Engineer is primarily a designer and builder of machines and other equipment for use in manufacturing processes, transportation, and the generation of power. He is responsible for the conservation and economical use of the power-producing resources of the world through the application of the proper equipment in each field of production. He is called upon to take charge of the executive management of the manufacturing, transportation, and power industries. For the Mechanical Engineer to be well grounded in his profession, he must be thoroughly familiar with both the science and the art of engineering.

The curriculum in Mechanical Engineering begins with a thorough training in Mathematics, Physics, and Chemistry, as a foundation for the technical work which is later developed along several parallel lines. The student is taught how these fundamental sciences are applied to the physical properties of the materials of construction, and to the transformation of heat energy into work and power. This is accomplished by means of courses in Drafting, Metallurgy, Mechanics, and Thermodynamics; through the work in the wood shop, forge and welding shop, foundry, and machine shop; by the tests performed in the mechanical laboratories.

Through the training offered in this curriculum it is hoped that the young graduate, after gaining some experience in industry, will be qualified to accept the responsibilities which will be imposed upon him in the professional field of Mechanical Engineering.

Buildings and Equipment. The Department of Mechanical Engineering occupies both Page Hall and the Park Building. In Page Hall are the offices of the Department, offices for the Drawing Division and the Laboratory Division, classrooms, drafting rooms, the Internal-Combustion-Engine Laboratory, and Hydraulics and Fluid Flow Laboratory. The Park Building contains the Mechanical Engineering Laboratory, the Metallurgy Laboratory, the Heating and Air-Conditioning Laboratory, the Wood Shop, the Foundry, the Forge and Welding Shop, and the Machine Shop. It also contains the offices of the Faculty in the several Shops and one classroom.

Drafting Rooms.—The drafting rooms are equipped with tables, stools, cases for boards, reference files, and models. The drafting rooms have two Universal Drafting Machines in addition to other necessary equipment. The blueprint room contains an electric blueprint machine, a sheet washer, and

** On leave.

an ozalid printing machine, besides the usual sun frames. Fluorescent lights are used in the drafting rooms.

Shops.—The Wood Shop is equipped with a variety of woodworking machines: lathes, combination saw, dado saw, cut-off saw, jointer, mortiser, sanders, moulder, sticker, trimmer, shaper, boring machines, band saws, jig saw, various types of clamps, a glue room, and other essentials that go to make an up-to-date shop. The machines are motor driven with either individual or group drive. The shop includes work benches, hand tools and necessary auxiliary equipment and a modern spray-gun for finishing surfaces.

The Foundry Equipment consists of a 36″ cupola, a 22″ cupola, brass furnace, core oven, core machine, moulding machines, cleaning mill, motor-driven elevator, emery wheel and buffer, and the necessary tools and patterns for practical moulding. Sand-testing equipment is available for experimental work.

The Forge and Welding Shop is equipped with thirty anvils and forges, the blast for the forges being produced by a large powder blower and regulated by individual controls on each forge. The shop is also equipped with a modern down-draft-type exhaust system. Other equipment consists of iron shears, vises, emery wheels, and other necessary forging equipment. A 300-ampere direct-current electric welder and a ten-station oxy-acetylene welding-manifold system completes this equipment.

The Machine Shop, well heated, lighted, and ventilated, is equipped with work benches, machinist's vises, and a variety of machine tools: engine lathes, bench lathes, shapers, planers, milling machines, vertical and horizontal boring mills, drill presses, slotting machines, grinders, arbor presses, and a variety of hand tools, cutters, clamps, jigs, and other equipment necessary to modern machine-shop practice. Some of the machines are group driven, others are individually driven.

Laboratories.—The Heat-Power, Heating and Air-Conditioning, and Metallurgical Laboratories are located in the Park Building. The Heat-Power Laboratory is equipped with plain slide-valve, automatic cut-off, multiple-expansion, and uniflow engines arranged for condensing and noncondensing operation. It is provided with a turbo-generator set complete with a high-vacuum condenser. A two-stage air compressor driven by a uniflow engine supplies air for experimentation. Weighing tanks and steam pumps make possible tests in this field. This division of the laboratory is equipped with instruments and apparatus for making coal and gas analyses and tests, lubrication tests, calibration tests, heat-transfer tests, nozzle tests, and general efficiency and thermodynamic tests.

The Heating and Air-Conditioning division of the laboratory contains several heating boilers with appropriate oil-burning equipment, weighing tanks and instruments for complete tests. The laboratory is also equipped with an air conditioner, unit heaters, radiator-testing equipment, a half-ton refrigeration machine, insulation-testing equipment and a fan-and-duct testing unit.

The Metallurgical Laboratory is equipped for work dealing with the structure and the physical and mechanical properties of metals and alloys. The equipment includes electric and gas heat-treating furnaces with controls; indicating and recording pyrometers; apparatus for polishing and etching specimens; metallurgical microscopes with complete lens combinations; dark rooms for photographic; and, photoelastic equipment. The laboratory is equipped with 15,000 lb. and 50,000-lb. material-testing machines.

The Hydraulic-Machinery, and Internal-Combustion-Engine Laboratories are housed in the basement of Page Hall. The Laboratories are equipped with a new twenty-inch wind tunnel capable of speeds in excess of 100 miles per hour. The tunnel is equipped with automatic balances. A smokebox is provided for flow-analysis work. Photographic equipment is provided for flow study.

The Hydraulic Testing Laboratory contains a ten-inch Francis-Type Hydraulic Turbine, of the most modern design, directly connected to an electric dynamometer, together with weir, Venturi, flume, and instruments for complete test. The laboratory has high speed and low-speed centrifugal pumps arranged for tests, also Venturi tubes, weirs, nozzles, meters, and a hydraulic channel for the study of flow.

The Internal-Combustion-Engine Laboratory is equipped with high-speed and low-speed compression ignition engines, automotive and stationary spark ignition engines, air-cooled and liquid-cooled aircraft engines, all of modern design. Each of the test engines, of which there are ten at present, is equipped with its power-absorbing device, such as club-propellers in the case of areo engines and water brakes, calibrated electric generators and electric cradle-dynamometers for the other engines. A 5-hp. electric dynamometer is provided for accessory testing and a 125-hp. dynamometer for high-speed-engine testing. Engines, carburetors, ignition equipment and accessories are provided for study. C.F.R.-A.S.T.M. units are available for gasoline and diesel fuel research.

Recent additions to the Internal Combustion Laboratory consist of a 500 H.P. twelve cylinder Vee type marine diesel engine; two 150 H.P. 6 cylinder high-speed marine diesel engines; a high-speed automotive type 85 H.P. diesel; a 60 H.P. stationary diesel engine with direct connected generators; a complete iteniary of diesel fuel-pumps, nozzles, governors, transfer pumps, and allied equipment together with a fuel pump testing and calibrating unit, nozzle testors, and spray analyzers. The laboratory is also equipped with high-speed indicators of the cathode ray type and vibration analyzers for the study of motion and vibration of engine parts; and a centrifugal supercharging testing unit with a high-speed dynamometer.

All of the laboratories are designed around the unit system for instruction, whereby units in or whole divisions of the laboratory may be operated without depending on or interfering with other units or divisions.

CURRICULUM IN MECHANICAL ENGINEERING

For the Freshman Year, refer to page 106.

Surveying, C.E. s200, 3 credits, is required in the summer immediately following the freshman year.

Sophomore Year

COURSES	CREDITS First Term	Second Term	Third Term
Calculus I, II, III, Math. 201, 202, 303	4	4	4
*Business English, Public Speaking, Eng. 211, 231, and Elective English	3	3	3
Physics for Engineers, Phys. 201, 202, 203	4	4	4
Mechanical Drawing, M.E. 211, 212, 213	2	2	2
Shopwork, M.E. 124, 125, 126	2	2	2
Engineering Mechanics, E.M. 311, 312	0	3	3
†Military Science, Mil. 201, 202, 203	2	2	2
Physical Education, P.E. 201, 202, 203	1	1	1
	18	21	21

Junior Year

Engineering Mechanics, E.M. 313	3	0	0
Machine Shop II, M.E. 227, 228, 229	1	1	1
Engineering Thermodynamics, M.E. 307, 308, 309	3	3	3
Mech. Eng. Lab. I, M.E. 313, 314, 315	1	1	1
Kinematics and Elem. Design, M.E. 317, 318, 319	3	3	3
Metallurgy 321, M.E. 322, 323	3	3	3
Strength of Materials, E.M. 321, 322	0	3	3
Fluid Mechanics, E.M. 330	0	0	3
Business Law, Econ. 307	3	0	0
Technical Writing, Eng. 321	0	3	0
**Electives	3	3	3
	20	20	20

Summer requirement: Six weeks of industrial employment.

MECHANICAL ENGINEERING I—GENERAL OPTION

Professor L. L. Vaughan, Faculty Adviser

Senior Year

General Economics, Econ. 201, 202, 203	3	3	3
Power Plants, M.E. 401, 402, 403	3	3	3
Heating and Air Conditioning, M.E. 404	0	3	0
Machine Design, M.E. 411, 412, 413	3	3	3
Refrigeration, M.E. 405	0	0	3
Mechanical Engineering Lab. II, M.E. 407, 408, 409	1	1	1
Elements of Electrical Engineering, E.E. 320, 321, 322	3	3	3
Electrical Eng. Lab. II, E.E. 325, 326, 327	1	1	1
Hydraulic Machinery, E.M. 331	3	0	0
**Electives	3	3	3
	20	20	20

* Students who have been certified by the Department of English as proficient in English may substitute Modern Language for the courses listed.

† Or six credits in one or two of the following departments: Economics, Psychology, History, Modern Language, Sociology.

** To be selected from the following fields: Humanities, Military Science III and IV, Language and Literature, Pure Mathematics, Pure Natural Science, and Social Science.

MECHANICAL ENGINEERING II—HEATING AND AIR-CONDITIONING OPTION

Professor E. G. Hoefer, Faculty Adviser

The Mechanical Engineering Department offers this option because of the increasing interest in heating and air conditioning for comfort; and furthermore because the engineering profession is largely responsible for the health and well-being of society through the effective construction and operation of heating and air-conditioning systems. Emphasis is placed on this phase of engineering through the application of fundamental principles to design, laboratory investigations and research. Through this means the student is given an opportunity to become familiar with standard practice in this field.

Freshman, Sophomore and Junior years identical with the General Mechanical Engineering Curriculum.

Summer requirement: Six weeks of industrial employment.

Senior Year

COURSES	CREDITS First Term	Second Term	Third Term
General Economics, Econ. 201, 202, 203	3	3	3
Power Plants, M.E. 401, 402, 403	3	3	3
Heating and Air Conditioning Lab., M.E. 455, 456, 457	1	1	1
Hydraulics Machinery, E.M. 331	3	0	0
Heating and Air Conditioning II, M.E. 451, 452, 453	3	3	3
Heating and Air Conditioning Design, M.E. 458, 459	0	3	3
Elements of Elec. Engr., E.E. 320, 321, 322	3	3	3
Electrical Eng. Lab. II, E.E. 325, 326, 327	1	1	1
**Electives	3	3	3
	20	20	20

All seniors are required to go on the inspection trip as part of their curriculum.

MECHANICAL ENGINEERING III—METALS OPTION

Professor W. G. VanNote, Faculty Adviser

The Mechanical Engineer is becoming steadily more dependent upon metals and alloys for the efficient construction, operation, and maintenance of the varied engineering units under his supervision. Similarly in the design of improved and new units he is making increased demands upon the metal industry for materials of superior properties. Because of this close interdependence of mechanical engineering and metallurgy the Metals Option is offered. Emphasis is given to the control which may be exercised over the properties of metals through methods of manufacture and subsequent physical and thermal treatments. Since welding design and practice has a prominent place in the metallurgical applications made by the mechanical engineer, substantial instruction in this field is included in the option.

** To be selected from the following fields: Humanities, Military Science III and IV, Language and Literature, Pure Mathematics, Pure Natural Science, and Social Science.

Freshman, Sophomore and Junior years identical with the General Mechanical Engineering Curriculum.
Summer requirement: Six weeks of industrial employment.

General Economics, Econ. 201, 202, 203	3	3	3
Elements of Elec. Eng., E.E. 320, 321, 322	3	3	3
Electrical Engineering Lab., E.E. 325, 326, 327	1	1	1
Machine Design, M.E. 411, 412, 413	3	3	3
Welding, Theory and Practice, M.E. 431, 432, 433	2	2	2
Physical Metallurgy, M.E. 441, 442, 443	3	3	3
Experimental Engineering, M.E. 461, 462, 463	3	3	3
**Electives	3	3	3
	21	21	18

All seniors are required to go on the inspection trip as part of their curriculum.

** To be selected from the following fields: Humanities, Military Science III and IV, Language and Literature, Pure Mathematics, Pure Natural Science and Social Science.

DIVISION OF TEACHER EDUCATION

Professors:

T. E. Browne, M.A., Director of the Division
Leon E. Cook, M.S., Agricultural Education
J. R. Ludington, Ph.D., Industrial Arts Education
J. K. Coggin, M.S., Agricultural Education
J. Warren Smith, M.S., Industrial Education
William McGehee, Ph.D., Psychology

Associate Professors:

L. O. Armstrong, M.S., Agricultural Education
D. J. Moffie, Ph.D., Psychology

Supervisor of Student Teachers in Industrial Arts

C. Merrill Hamilton, M.A., Industrial Arts Education

Purposes. The Division of Teacher Education at North Carolina State College is organized and equipped for the purpose of carrying out a specific function allocated to the College by the trustees of the Greater University. The particular objective of this Division is to provide professional training, to organize curricula, and to give direction to those students who indicate an interest in becoming teachers of Vocational Agriculture, Trade and Industrial Education and Industrial Arts Education. The technical subject matter instruction for such teachers is provided by the technical schools on the Campus.

The State Board for Vocational Education has designated State College as the training center for vocational teachers in the fields of Agriculture and Industrial Education, and federal funds are used to aid in the maintenance of teacher training in these two fields.

Organization.—The Division offers graduate and undergraduate curricula for the preparation of teachers of Agriculture, of Industrial Arts, and of Industrial Education. The training includes four definite objectives. The first embraces the fundamentals of general education: English, mathematics, sociology, history, and the natural sciences—biology, geology, chemistry, and physics. Next are the technical subjects selected according to the professional course of the student: for Agricultural Teaching, in the School of Agriculture; for Industrial Arts and Industrial Education, in the School of Engineering. In the third group are the principles and methods of teaching. Educational Psychology here is obviously essential. The last objective is practical experience. To meet the requirements of the State Department of Public Instruction for teaching certificates, students, before graduation, observe and teach under the direction of the faculty of the Division in selected high schools. Moreover, experience in the respective occupations is required for those preparing to teach agriculture, and the trades and industries.

Psychology. General Psychology, giving an understanding of man's reactions to individual and social forces, constitutes one of the fundamentals of liberal education. Educational Psychology, applying the general principles to the problems of instruction, learning, and character building, becomes obviously essential in the equipment of teachers. Courses in Applied. Industrial, and Social Psychology of specialized nature meet the needs of the various technological curricula. The Department of Psychology, in view of its intimate relation to the problems of teacher education, is incorporated administratively in the Division of Teacher Education; at the same time it functions instructionally throughout the Basic Division and the Professional Schools.

Guidance and Counseling.—Special facilities are provided in the Division of Teacher Education for mature students and persons who have had teaching or personnel experience and hold a Bachelor's Degree to enroll for courses leading to a Master's Degree in Occupational Information and Guidance. Advanced courses in education, psychology, sociology, and economics will be selected to insure competent leadership in guidance and counseling techniques.

Candidates for a degree in this field will be assisted by an advisory committee of faculty members in education and psychology in the formation of a program of study and research which will meet their individual needs.

For further information concerning graduate work in this field consult Dr. Z. P. Metcalf, Associate Dean of the Graduate School, North Carolina State College, Raleigh, North Carolina.

Requirements for Graduation. For graduation in the Division of Teacher Education, the scholastic requirement in all curricula is the satisfactory attainment of at least 230 term credits with not fewer than an equal number of honor points.

Of the term credits required for graduation, a student must have at least 27 in Education, 18 in Language, 18 in the Natural Sciences, 18 in Social Science, 12 in Military Training or alternatives, 6 in Physical Education. Subjects must be taken as indicated in the several curricula.

Students who enter with advanced standing are allowed one point for each term credit accepted.

Further requirements consist of practice teaching in the subject and practical experience in the work to be taught as indicated above or under the several Departments.

Degrees. Upon the satisfactory completion of one of the curricula in Education, a student is awarded the degree of Bachelor of Science with the name of his special curriculum appended: in Agricultural Education, in Industrial Arts Education and in Industrial Education.

The Graduate Division of State College offers the Master's Degree to mature students of superior ability upon successful completion of its requirements. For the details, see the statement of the Graduate Division in this Catalog.

Agricultural Education

Leon E. Cook

Object. Agricultural Education is designed to prepare students for positions as teachers of vocational agriculture in the high schools of the State, and to qualify as such under the provisions of the Smith-Hughes and the George-Deen Acts of Congress.

The curriculum is comprehensive in nature. It is, of course, essential that teachers have a good foundation in English and in the sciences basic to an understanding of agriculture. They should also have a sufficient understanding of the social sciences to appreciate the development of contemporary life, with the emphasis on those having to do with agriculture and the rural community. Manifestly they should have a grasp of agriculture in all phases of importance in the State, including the improvement of the farm home and of the social as well as of the economic development of the rural community. Proficiency in teaching vocational agriculture depends upon comprehensive and thorough preparation in the professional field with emphasis on personal relations and guidance, procedure in teaching both youth and adults, and in handling the various responsibilities of community service.

An adequate background of farm experience is essential for students looking forward to agricultural teaching, and experience in fields related to farming is desirable. A student should be farm-reared or should have several years of farm experience as a part of his preparation for teaching vocational agriculture.

Placement of Graduates. There has been a strong demand for teachers of vocational agriculture with little difficulty in placing students who are qualified from the standpoint of personality, character, training, and farm experience. A coöperative arrangement with the supervisory staff in agricultural education of the State Department of Public Instruction facilitates the placement of students in situations adapted to their experience and training.

Successful teachers of agriculture are in demand for higher positions in the educational service and by other agencies for positions offering higher salaries than those paid in the teaching profession.

Graduate Study. The Department provides opportunities for students, fully qualified, to do graduate work in Agricultural Education. Graduate students taking majors in this field should have completed the undergraduate work in Agricultural Education or the equivalent. Transfer students, or graduates in general agriculture who did not take the work in education, are required to complete 15 credits in education including Principles of Teaching and Methods of Teaching Agriculture, as prerequisites to graduate study.

CURRICULUM FOR TEACHERS OF VOCATIONAL AGRICULTURE

Freshman Year

COURSES	Terms and Credits F	W	S
Composition, Eng. 101, 102, 103	3	3	3
Math. 111, 112	4	4	0
U. S. History, Hist. 121, 122, Political Science, Pol. Sci. 211	3	3	3
Geology, Geol. 120	0	0	4
Botany 101, 102 or Zoology 101, 102	0	4	4
Field Crops, 101 or Animal Industry 101	4	0	0
Animal Industry, A.I. 101 or Field Crops, F.C. 101	0	1	0
Horticulture 101 or Poultry Science 101	0	0	4
Introduction to Agriculture 101	1	0	0
*Military Science 101, 102, 103	2	2	2
Physical Education and Hygiene. P.E. 101, 102, 103	1	1	1
	18	21	21

Sophomore Year

English, elective	0	0	3
Chemistry 201, 202, 203	5	5	5
Zoology 101, 102 or Botany 101, 102	4	4	0
Physics 115	0	0	5
Poultry 101 or Horticulture 101	1	0	1
Rural Sociology or Agric. Econ. 202 or English elective	3	0	0
Agricultural Economics 202 or Rural Sociology 201	0	3	0
Agricultural Engineering 202 or Soils 202	0	1 or 5	0
Soils 202 or Agric. Engineering 202	0	0	4 or 5
*Military Science 201, 202, 203	2	2	2
Physical Education, P. E. 201, 202, 203	1	1	1
	19	19 or 20	20 or 21

Junior Year

English, elective	0	0	3
Educational Psychology, Psy. 303, 304	3	3	0
Visual Aids, Ed. 308	0	0	3
Principles of Forestry, For. 111	0	0	3
Farm Shop, Agr. Eng. 331, 332	3	3	0
General Economics, Econ. 201, 202	3	3	0
Farm Accounting, Agr. Econ. 313	0	0	3
†Diseases of Vegetable Crops, Bot. 303	0	0	3
Soil Fertility and Fertilizers, Soils 301	5	0	0
Diseases of Farm Animals, A.I. 362	0	4	0
**Economic Entomology, Zool. 213	0	4	0
***Electives	6	3	3
	20	20	18

Senior Year

English, elective	0	0	3
Farm Management, Agr. Econ. 303	0	0	3
Plant Physiology, Bot. 321 or Animal Physiology, Zool. 201	5	0	0
Principles of Teaching, Ed. 406	3	0	0
Methods of Teaching Agriculture, Ed. 407	5	0	0
Observation and Directed Teaching, Ed. 408	0	5	0
Evening Classes and Directed Teaching, Ed. 411	0	5	0
Materials and Methods of Teaching Agriculture, Ed. 412	0	5	0
Agricultural Marketing, Agr. Econ. 411	3	0	0
Secondary Education in Agriculture, Ed. 426	0	0	3
***Electives	3	3	7
	19	18	16

† Diseases of Fruit Crops, Bot. 302 or Diseases of Field Crops, Bot. 301 may be substituted for Diseases of Vegetable Crops, Bot. 303.

* Or six credits in one or two of the following departments: Economics, Ethics and Religion, History and Political Science, Modern Languages, Psychology, and Sociology.

** General Bacteriology, Bot. 312 or Genetics, Zool. 411 may be substituted for Ec. Entomology, Zool. 213.

*** Options and electives except Mil. Sci. III and IV must be chosen with the aproval of the adviser.

INDUSTRIAL ARTS EDUCATION

John R. Ludington

Industrial Arts comprises that area of study and experience which deals with industry as a unit of society and the manner in which industry and its related materials, processes, and problems affects and has affected other units of society. For many years North Carolina State College has had an important part in aiding individuals and groups of individuals to cope with the increasingly complex problems of living in an industrial society through its program of teacher education.

The demand for competent teachers of Industrial Arts has increased year after year and the need for Industrial Arts as an essential phase of general education at the elementary and secondary school levels is being realized by progressive school communities and leaders in education.

Purposes. The Department of Industrial Arts is organized to aid in the education of teachers and supervisors of Industrial Arts, and to provide experiences for those individuals who desire to deal more appreciatively and effectively with problems of living in a democratic-industrial society. The successful completion of this curriculum leads to the granting of the degree of Bachelor of Science in Industrial Arts Education and the fulfillment of requirements for an A-grade certificate for teaching in this field.

The first two years of work in this curriculum are in line with the Basic Division of the College, which emphasizes work of a general and foundational nature. The junior and senior years are planned to include experiences of a specialized-professional nature.

In addition to added faculty personnel, new facilities have been provided in the Department which include: laboratories, machines, tools, benches, classrooms, and library resources. Further increases in physical setting and equipment have been planned which will make North Carolina State College one of the leading Industrial Arts teacher-education centers in the Southeast.

Graduate Program. Opportunities are provided for students of demonstrated interest and ability to do graduate work leading to the Master's Degree. The faculty personnel and resources of the Greater University of North Carolina are used in planning a sequence of experiences on the graduate level to meet the individual interests and needs of persons interested in Industrial Arts Education. Persons interested in graduate work in this field are invited to write for detailed information and courses offered.

DIVISION OF TEACHER EDUCATION

CURRICULUM FOR TEACHERS OF INDUSTRIAL ARTS

Freshman Year

COURSES	CREDITS First Term	Second Term	Third Term
Composition, Eng. 101, 102, 103	3	3	3
Algebra, Trigonometry, and Mathematics of Finance Math. 111, 112, 113	4	4	4
General Chemistry, Chem. 101, 102, 103	4	4	4
Industrial Arts Drawing, Ed. (I. A.) 105a, b, c	3	3	3
Industrial Arts, Ed. (I. A.) 106 a, b, c	3	3	3
Military Science I, Mil. 101, 102, 103 or World History, Hist. 104	2	2	2
Fundamental Activities and Hygiene, P.E. 101, 102, 103	1	1	1
	20	20	20

Sophomore Year

Business English, Eng. 211, Public Speaking, Eng. 231, Elective English	3	3	3
Textile Physics, Phys. 111, 112, 113	4	4	4
Economic History, Hist. 101, 102, 103	3	3	3
Industrial Arts Design, Ed. (I. A.) 205	0	0	3
General Sociology, Soc. 202, 203	3	3	0
Laboratory Problems in Industrial Arts, Ed. 206 (I. A.) a, b, c	3	3	3
†Military Science II, Mil. 201, 202, 203	2	2	2
Sports Activities, P.E. 201, 202, 203	1	1	1
	19	19	19

Junior Year

Introduction to Psychology, Psychol. 200, Educational Psychology, Ed. 304, Psychology of Adolescence, Ed. 476	3	3	3
General Economics, Econ. 201, 202, 203	3	3	3
Problems in Secondary Education, Ed. 344, Field Work in Secondary Education, Ed. 433, Visual Aids, Ed. 308	3	3	3
Laboratory Problems in Industrial Arts, Ed. 306 (I. A.) a, b, c	3	3	3
Business Law, Econ. 307	3	0	0
**Electives	3	3	3
*Electives in Related Technical and Shop Courses	3	5	3
	21	20	18

Senior Year

Methods of Teaching Industrial, Ed. 422, Observation and Directed Teaching, Ed. 444	3	3	3
Labor Problems, Econ. 331, Vocational Guidance, Ed. 420	3	3	0
Occupational Studies, Ed. 424	0	0	3
Curriculum Problems in Industrial Arts, Ed. 482, Instructional Aids and Devices, Ed. 483, Laboratory Planning and Equipment Selection, Ed. 484	3	3	3
**Electives	3	3	3
*Electives in Related Technical and Shop Courses	6	6	6
	18	18	18

* Electives to be selected with aid of adviser to meet special needs of individual students.

† Or six credits in one or two of the following departments: Economics, Psychology, History and Political Science, Modern Languages, Sociology, and Ethics and Religion.

** To be selected from the following fields: Humanities, Military Science III and IV, Language and Literature, Pure Mathematics, Pure Natural Science and Social Science.

Industrial Education

J. Warren Smith

Object.—Vocational technical skills are necessary to the industrial development of any state. Many influential groups are urging the development of new industries for North Carolina. Vocational and technical schools have a responsibility to aid in the development of these skills necessary for the maintenance and development of our present industries as well as preparing for new industries. Schools cannot be operated without competent teachers. It is to prepare teachers for this field of service that this program is designed. A four year course is outlined with the first two years running parallel with that of Industrial Arts, then specializing by following the outlined course during the last two years.

Positions for Graduates.—The student who completes this course will be prepared to teach in the all-day trade schools, area vocational schools, the part-time, or the evening vocational classes, such as are supported by State and Federal funds for vocational education. At the present time, little difficulty should be encountered by the successful candidates in attaining positions after graduation.

Trade Experience Required. Candidates for degrees must have had at least two years of successful trade experience in the trade they wish to teach. Successful completion of this course leads to the degree of Bachelor of Science in Industrial Education. Students desiring this degree may enter with or without having the required practical experience. If the student does not have any trade experience when he enters, he must meet this requirement before getting the degree, either by working parts of the school year or by completing the work experience after completing the required resident courses.

This Department is recognized as the official Training Department of Industrial Education for the State Department of Education. The head of the Department serves as itinerant teacher-trainer for part-time, day-trade, and evening classes, and for the preparation of prospective teachers.

CURRICULUM FOR TEACHERS OF INDUSTRIAL EDUCATION

For freshman and sophomore years, see Industrial Arts Education

Junior Year

COURSES	CREDITS First Term	Second Term	Third Term
Philosophy of Industrial Education, Ed. 427	0	3	0
*Shopwork (selected)	5	5	3
Introduction to Psychology, Psychol. 200, Educational Psychology, Ed. 304, Psychology of Adolescence, Ed. 476	3	3	3
Philosophy of Guidance, Ed. 420	0	0	3
Problems in Secondary Education, Ed. 544	3	0	0
Labor Problems, Econ. 331	3	0	0
General Economics 201, 202, 203	3	3	3
Visual Aids, Ed. 308	0	0	3
Mechanical Drawing, M.E. 211, 212, 213	2	2	2
**Electives	3	3	3
Electives	0	3	2
	20	20	19

Senior Year

Local Survey: Planning a Program, Ed. 416	0	3	0
*Shopwork (selected)	0	3	0
Methods of Teaching Industrial Subjects, Ed. 422	3	0	0
Observation and Directed Teaching, Ed. 444	0	3	3
Occupational Studies, Ed. 424	0	0	3
Curriculum Problems in Industrial Arts, Ed. 482, Instructional Aids and Devices, Ed. 483, Laboratory Planning and Equipment Selection, Ed. 484	3	3	3
***Elective courses in Design	3	3	3
**Electives	3	3	0
Electives	5	0	3
	17	18	18

* Elective shopwork should be taken in fields available as Textiles, Woodshop, Machine Shop, Foundry, and Electricity.

** To be selected from the following fields: Humanities, Military Science III and IV, Language and Literature, Pure Mathematics, Pure Natural Science and Social Science.

*** Elective courses must be approved by the faculty adviser.

THE SCHOOL OF TEXTILES

Malcolm E. Campbell, Dean
Thomas Nelson, Dean Emeritus

Organization. The School of Textiles of North Carolina State College is organized for the purpose of administration into five departments: Yarn Manufacturing, Knitting, Weaving and Designing, Textile Chemistry and Dyeing and Textile Research.

The School of Textiles is organized to offer technical instruction, both undergraduate and graduate, in the applied sciences underlying the production and finishing of textile products. This training is supplemented by thorough academic and engineering training in the other branches of the college. It is also organized and equipped to conduct applied and fundamental textile research and cooperates with other Schools of the College and with research organizations throughout the country.

Purpose. The purpose of the School of Textiles is to educate men for professional service in Textile Manufacturing, Textile Management, Textile Chemistry and Dyeing, Yarn Manufacturing, Knitting, Weaving and Designing; to develop their capacities for intelligent leadership; to equip them to participate in commercial and public affairs; to aid in the development of the textile industry and its commerce through research and experimentation; to coöperate with the textile mills of the State in gaining, through scientific research, information that will improve the quality and value of manufactured products and increase technical skill.

Occupations. Never before in America have more opportunities in textiles been offered to young people of North Carolina and the South generally than are available today to graduates of the School of Textiles.

North Carolina is the largest textile manufacturing State in the South; it has more mills than any other State in America. It has the largest towel, damask, denim, and underwear mills in America; and it has more mills that dye and finish their own products than any other Southern State, also a large printing industry. These plants produce a diversified line of cotton, rayon, silk, wool, and worsted textile products.

The courses of instruction are arranged and grouped so that students may get the best results from their work, and accumulate the necessary knowledge, which, together with actual experience after graduation, enables them to fill such positions as the following:

Owners of mills.

Presidents and vice-presidents of mills and other textile establishments.

Secretaries and treasurers of mills.

Managers, superintendents, and department foremen in cotton, rayon, woolen, silk, and hosiery mills.

Superintendents and foremen in mercerizing, bleaching, dyeing, and finishing plants.

Designers and analysts of fabrics.

Technical demonstrators in the dyestuff industry.

Textile chemists.

Textile cost accountants in mills.

Purchasing agents for mills.

Salesmen of machinery, yarn, cloth, rayon, dyestuffs, and chemicals.

Positions in yarn and fabric commission houses, with fabric converters and with research organizations.

Specialists in Government service.

Representatives for manufacturers of machinery, rayon, dyestuffs, and mill supplies.

Degrees.—Upon the completion of any one of the curricula in Textiles the degree of Bachelor of Science in Textiles is conferred.

The degree of Master of Science in Textiles is offered for the satisfactory completion of one year of graduate study in residence. Candidates for the degree of Master of Science in Textiles enter and are enrolled in the Graduate Division of the College.

The professional degree of Master of Textiles may be conferred upon graduates of the School of Textiles after five years of professional practice in charge of important work and upon the acceptance of a satisfactory thesis.

Requirements.—The requirements for graduation in the School of Textiles are the satisfactory completion of all the courses in one of the prescribed curricula on the pages following, a total of not fewer than 240 term credits, wi th not fewer than 240 honor points.

Of the minimum of 240 term credits required for graduation in the School of Textiles, 150 are common to all curricula; that is, 12 term credits in Mathematics, 18 in Language, 27 in Economics and history, 12 in Chemistry, 15 in Physics, 12 in Engineering, 36 in General Textiles, 12 in Military Training or Social Science alternatives, and 6 in Physical Education. Each of the curricula permits election of 18 term credits.

Inspection Trips.—Where possible arrangements are made for students to visit outstanding mills. These trips are made to enable the student to see various manufacturing processes under actual operating conditions.

Curricula. The freshman and sophomore work is the same for all students in the School of Textiles. The training is general, and gives the student a good opportunity to make a wise choice in the selection of the particular field in which he desires to specialize. Six curricula are offered:

1. Textile Manufacturing
2. Yarn Manufacturing
3. Weaving and Designing
4. Knitting
5. Textile Chemistry and Dyeing
6. Textile Management

Textile Manufacturing and Textile Management offer work in all Departments of the School of Textiles; these are therefore general curricula with one placing more emphasis on manufacturing, the other, more emphasis on economics.

Students who select Textile Chemistry and Dyeing, Knitting, Weaving and Designing, or Yarn Manufacturing devote a larger percentage of their time to specialization in one Department of the School of Textiles.

Textile Curricula for University and College Graduates. Selected courses leading to the degree Bachelor of Science in Textiles are offered to graduates of universities and standard colleges. These are arranged in accordance with the vocational aim of the individual student and in the light of credits presented from the institution by which the student has been graduated, subject to the approval of his adviser and the director of instruction. In cases where the student presents enough credits which may be used for courses required in a curriculum, he or she may be graduated with a Bachelor of Science degree in Textiles. In no case should it take more than two years to complete the work for the degree.

Short Courses. It is the policy of the School to offer short course training for textile mill men who have a limited amount of time to spend at the School. These courses can be offered when a demand for them exists and the subject matter will be selected to meet the needs of the group.

Extension Courses.—The staff of the School is cooperating with the Extension Division of the College in offering textile courses by correspondence to employees of textile mills who wish to engage in this type of study. Applications for enrollment in these courses should be mailed direct to the Bureau of Correspondence Instruction, Edward W. Ruggles, Director, State College Station.

DEPARTMENTS Yarn Manufacturing

Professor Elliot B. Grover, Head of the Department

Professor J. T. Hilton Professor J. F. Bogdan

Assistant Professor G. R. Culberson

Purpose.—The purpose of this Department is to instruct students in the theory and practice of producing yarns to conduct experimental processing in the utilization of cotton and the various synthetic fibers, and combinations of these; to study the engineering aspects of the machinery involved, and to cooperate with mills in solving manufacturing problems through research and experimentation.

Opening and Picking. The opening and picking equipment is placed in a separate room and consists of bale breaker, vertical opener, C.O.B. and condenser, distributor breaker picker, and finisher lapper.

* On military leave.

Carding and Spinning. This equipment occupies two rooms. The larger one is used for instruction. The machinery consists of cards, regular and controlled-draft drawing frames, conventional and long draft roving frames, spinning frames, warper, spooler, winders, regular and fancy twisters, and a complete unit of combing machinery for the production of fine yarns. The smaller room contains a complete unit of carding and spinning machinery, including several types of long-draft spinning; it is used as an experimental laboratory. Thus student instruction and experimental work do not conflict. Both rooms are equipped with Parks Cramer humidifiers.

Woolen. This equipment, placed in a separate room and consists of a complete woolen unit made by Davis and Furber.

Mill Control Laboratory.—This laboratory is set up and equipped for the performance of physical tests on fibers, yarns, and fabrics. It has the most modern type of air conditioning designed specifically for the control of the dry bulb temperature and relative humidity within close tolerances and over a wide range of conditions.

This laboratory is used for teaching, physical testing and research.

Included in the laboratory equipment are the following: Suter-Webb fiber sorter, Pressley fiber strength instrument, several torsion and other types of balances, several combination skein and cloth breaking machines, inclined plane testers, single strand testers, Moscrop multiple and single strand tester, Mullen bursting strength tester, dry-ovens, abrasion machines, twist testers, densometers, hydrostatic pressure tester, microscopic equipment, automatic reels, Frazier air permeability tester, yarn quadrants, and many other types of laboratory equipment.

The curriculum in Yarn Manufacture is listed with the other Textile curricula.

Knitting

Professor W. E. Shinn, Head of the Department
Associate Professor J. G. Lewis

Purpose.—In recognition of the great importance of knitting and the other needle arts in the industrial life of this section, a department of knitting has been set up with the objective of making available to this branch of the textile industry, personnel more adequately trained in the fundamentals and practices underlying the production of knitted textiles.

The laboratories of this division are being set up to embrace every phase of the knit goods industry.

1. Circular hosiery design and knitting.
2. Circular body knitting for jersey and rib fabrics.
3. Selected types of flat knitting equipment.
4. Hosiery and knit-goods finishing, in cooperation with the Department of Textile Chemistry and Dyeing.

The wide range of equipment in the knitting laboratories makes them the outstanding center for instruction in the many aspects of knit-goods production. The knitting department functions not only to provide instruction to students in all textile curricula, but in addition offers a complete curriculum in knitting which enables students to specialize in the knitting branch of the textile industry.

In cooperation with the Department of Textile Research, a program applicable to the specific needs of the knitting industry has been initiated.

Weaving and Designing

Professor T. R. Hart, Head of the Department
Professor Thomas Nelson
Assistant Professor J. A. Porter, Jr.
*Instructor, W. E. Moser

Purpose. The purpose of this Department is to instruct students in the theory and practice of weaving and designing fabrics ranging from simple print cloths to elaborate leno and jacquard creations, to coöperate with the home economics department of North Carolina colleges in creating consumer interest in textile products, to coöperate with mills in solving manufacturing problems through research and experimentation.

Weave Room. This room contains a larger variety of looms than can be found in any textile mill. These have been carefully selected so that the students may obtain a knowledge of the different cotton, rayon, and silk looms made in the United States. It also contains looms to produce such fabrics as print cloths, sheetings, denims and twill fabrics, ginghams, fancy shirtings, dress goods, and plush, as well as fancy leno and jacquard fabrics. The weave room has been modernized so that the students can be trained in the technique of manufacturing fancy cotton, rayon, and combination fabrics on automatic, dobby, and jacquard looms. Other equipment in the weave room includes Universal filling winders, braiders and Bahnson humidifiers.

Warp Preparation.—Short warps are made on the silk and rayon equipment in this department, which consists of a silk and rayon skein winder, and a combination warper and beamer. Other equipment includes a slasher and cotton beaming frame.

Designing and Fabric Analysis. A full equipment of design boards for single and double cloths is provided in the classrooms. Dies for cutting samples and different makes of balances, and microscopes are provided for the analysis of fabrics. Other designing equipment includes an enlarging camera, card cutting pianos and card lacing equipment.

The curriculum in Weaving and Designing is listed with the other Textile curricula.

* On military leave.

Textile Chemistry and Dyeing

Professor A. H. Grimshaw, Head of the Department
Assistant Professor A. C. Hayes

Purpose.—The purpose of this Department is to instruct students in the theory and practice of dyeing, printing, and finishing yarns and fabrics; to conduct experiments; to coöperate with the mills of the State in solving problems relating to the dyeing and finishing of textile products.

Equipment.—The Dye Laboratory is fitted up with work tables, balances, steam baths, drying oven, and other apparatus for experimental dyeing, dye testing, color matching, and the testing of dyed samples by acids and alkalies. It also contains roller, spray, and screen printing apparatus.

The Dye House is equipped with kier; raw stock, package, skein, and hosiery dyeing machines; a cloth dyeing machine of the creel type; hydro-extractor; raw stock dryer and other equipment needed in the dyeing of larger quantities of material and in giving instruction in boiling out, bleaching, and dyeing raw stock, skeins, warps, hosiery, and piece goods.

The Chemical Research Laboratory contains microscopes, photo-micrographic cameras and projector, fade ometer, launder ometer, pH apparatus, viscosimeters, extractors, separator, analytical balances, electric oven, equipment for testing oil and finishing compounds, as well as the analytical equipment generally used by textile chemists. It also contains a dark room fully equipped for photographic work.

The curriculum in Textile Chemistry and Dyeing is listed with the other Textile curricula.

Textile Research

Dr. Frederick T. Peirce, Director
Miss Martha Wallace, Laboratory Technician

Through financial assistance extended by the North Carolina Textile Foundation, a program of research has been initiated which is expected to be far reaching in its influence on the development of the textile industry in North Carolina and the nation.

The scope of this research will embrace fundamental and applied investigations in the fields of fibers, yarns, fabrics and fabrication, together with consumer performance studies.

The equipment available for research is listed under the departments. Members of the teaching staff devote a portion of their time to research. Their work is being supplemented by full time research personnel trained in the physical sciences.

Textile Library

Miss Rachel Penn Lane, Librarian-Abstracter

The School has organized in the Textile Building a department library near the classrooms and laboratories in which the instruction is given. The entire textile book collection was transferred to the Textile Building in June, 1945, from the D. H. Hill Library. The holdings of books and bound periodicals now amount to around 1000 volumes, and is consistently augmented with additional material. Special collections in addition, include trade catalogs for textile machinery, chemicals and dyes, etc.; a file of patents issued in textile classes and subclasses from July 1, 1945 to date; literature services such as the "Natural and Synthetic Fibers Abstract Service." Theses by textile students are available for loan. Complete card indexes to the collections are maintained.

Copies of the leading American and foreign textile journals, newspapers and house organs are made available to the staff and students, and this division of the School is proving to be a popular and useful center of activity. Reference service and loans of the holdings of the Textile Library are available to workers in industry and research throughout North Carolina.

Consulting Service

George H. Dunlap, Technologist

In recognition of the need for close contact with the textile mills, this division was organized with the assistance of the North Carolina Textile Foundation. It is the function of the Technologist to visit as many mills as possible during the year, to discuss with executives their technical problems, and assist in their solution. In many cases, this involves experimental work which may be conducted in the mill or brought to the School for consultation with the staff or for special work in the laboratories.

The Technologist frequently cooperates with the officials of trade associations in planning and arranging programs and represents the School at these meetings.

CURRICULUM IN TEXTILE MANUFACTURING

*** Freshman Year

COURSES	CREDITS First Term	Second Term	Third Term
Composition, Eng. 101, 102, 103	3	3	3
Physics for Textile Students, Phys. 111, 112, 113	4	4	4
Alg., Trig., Math. of Finance, Math. 111, 112, 113	4	4	4
Shopwork, M.E. 121, 122, 123	1	1	1
Engineering Drawing, M.E. 105, 106	3	3	0
Cloth Calculations, Tex. 131	0	0	3
Textile Principles, Tex. 101, 108	0	3	0
Mil. Sci. I, Mil. 101, 102, 103 or World History, Hist. 104, or Human Relations, Soc. 101, 102, 103	2	2	2
Fundamental Activties and Hyg. P.E. 101, 102, 103	1	1	1
	18	21	18

*** Sophomore Year

Economic History, Hist. 101, 102, 103	3	3	3
Decorative Draw., Arch. 106 or Light in In., Phys. 311	3	0	0
Light in In., Phys. 311, or Decorative Draw., Arch. 106	0	0	3
General Inorganic Chem., Chem. 101, 102, 103	4	4	4
English or Modern Language	0	3	3
Yarn Manufacture I, Tex. 201, 202, 205	1	1	3
Power Weaving, Tex. 231, 232, 234	1	3	0
Fabric Structure and Analysis, Tex. 235, 236	2	2	0
Knitting I, Tex. 207, 208, 209, 211	3	1	1
*Military Science II, Mil. 201, 202, 203	2	2	2
Sports Activities, P.E. 201, 202, 203	1	1	1
	20	20	20

Junior Year

English or Modern Language	3	0	0
General Economics, Econ. 201, 202, 203	3	3	3
**Psychology 200, 337, 338	3	3	3
Textile Calculations I ,Tex. 345	0	0	3
Yarn Manufacture II, Tex. 301, 302, 303, 304	1	4	1
Dobby Weaving, Tex. 331, 332, 333, 325	1	1	4
Fabric Design and Analysis I, Tex. 341, 342	3	3	0
Dyeing I, Tex. 371, 372, 373, 375	4	1	1
Textile Testing I, Tex. 343	0	0	1
Cotton Quality I & II, Tex. 420, 421	0	3	3
†Electives	3	3	3
	21	21	22

Senior Year

Industrial Man., Personnel Man., Econ. 325, 326, 333	3	3	3
Mill Organization, Tex. 426, 427	0	3	3
Textile Cost Methods, Tex. 355	0	3	0
Hosiery Manufacture Tex. 433, 434	3	3	0
Yarn Manufacture IV, Tex. 401, 402, 403, 405	4	1	1
Dobby Design, Tex. 441	3	0	0
Jacquard Design, Tex. 445	0	0	3
Cotton and Rayon Weaving, Tex. 431, 432, 435	1	1	3
Cotton and Rayon Dyeing I, Tex. 471, 472, 473, 474	1	4	1
Fabric Analysis, Tex. 451	2	0	0
Textile Microscopy I, Tex. 475	0	0	1
†Electives	3	3	3
	20	21	18

† To be selected from the following fields: Humanities, military Science III and IV, Language and Litreature, Pure Mathematics, Pure Natural Science and Social Science.

* Or six credits in one or two of the following departments: Economics, English, Psychology, History and Political Science, Modern Languages, Sociology, and Ethics and Religion.

** Principles of Accounting Econ. 301, 302, may be substituted for Psychology.

*** Freshman and Sophomore years for all textile curricula.

CURRICULUM IN YARN MANUFACTURING

The freshman and sophomore years are the same as for Textile Manufacturing

Junior Year

COURSES	CREDITS First Term	Second Term	Third Term
English or Modern Language	3	0	0
General Economics, Econ. 201, 202, 203	3	3	3
Accounting I, Econ. 301, 302	3	3	0
Psychology, Psyc. 200, 337, 338	3	3	3
Yarn Manufacturing III, Tex. 310, 311	0	3	3
Yarn Manufacturing Lab. III, Tex. 307, 308, 309	2	2	2
Dobby Weaving, Tex. 335	0	0	3
Dyeing I, Tex. 371, 372, 373, 375	4	1	1
Cotton Quality I & II, Tex. 420, 421	0	3	3
**Electives	3	3	3
	21	21	21

Senior Year

Industrial Man., Personnel Man., Econ. 325, 326, 333	3	3	3
Mill Organization, Tex. 426, 427	0	3	3
Textile Cost Methods, Tex. 355, 356	0	3	3
Dobby Weaving Lab. Tex. 331, 332, 333	1	1	1
Machine Shop II, M.E. 227, 228, 229	1	1	1
Elements of Electrical Engr. I, E.E. 320, 321	3	3	0
Textile Calculations II, Tex. 413	3	0	0
Yarn Manufacturing V, Tex. 407, 408, 409, 411, 412	5	5	2
Manufacturing Problems, Tex. 415	0	0	3
**Electives	3	3	3
	19	22	19

** To be selected from the following fields: Humanities, Military Science III and IV, Language and Literature, Pure Mathematics, Pure Natural Science, and Social Science.

CURRICULUM IN WEAVING AND DESIGNING

The freshman and sophomore years are the same as for Textile Manufacturing

Junior Year

COURSES	CREDITS First Term	Second Term	Third Term
English or Modern Language	3	0	0
General Economics, Econ. 201, 202, 203	3	3	3
Dyeing Tex. 371, 372, 373, 375	4	1	1
Psychology 200, 338	3	3	0
Textile Calculations I, Tex. 345	0	0	3
Fabric Design and Analysis I, Tex. 341, 342	3	3	0
Jacquard Design, Tex. 445	0	0	3
Dobby Weaving, Tex. 335, 337, 338, 339	2	2	5
Textile Testing I, Tex. 343	0	0	1
Cotton Quality I & II, Tex. 420, 121	0	3	3
Elective	0	3	0
**Electives	3	3	3
	21	21	22

Senior Year

Industrial Man., Personnel Man., Econ. 325, 326, 333	3	3	3
Mill Organization Tex. 426, 427	0	3	3
Textile Cost Methods, Tex. 355, 356	0	3	3
Adv. Dobby Design, 443	0	3	0
Dobby Design, Tex. 441	3	0	0
Textile Testing II, Tex. 457, 458, 459	1	1	1
Jacquard Design Lab., Tex. 447, 448, 449	1	1	1
Cotton Rayon Weaving, Tex. 435, 43 7,438, 439	2	2	4
Color in Woven Design, Tex. 455, 456	3	3	0
Fabric Analysis, Tex. 451	2	0	0
Textile Microscopy I, Tex. 475	0	0	1
**Electives	3	3	3
	18	22	19

** To be selected from the following fields: Humanities, Military Science III and IV, Language and Literature, Pure Mathematics, Pure Natural Science, and Social Science.

CURRICULUM IN KNITTING

The freshman and sophomore years are the same as for Textile Manufacturing

Junior Year

COURSES	CREDITS First Term	Second Term	Third Term
English or Modern Language	3	0	0
General Economics, Econ. 201, 202, 203	3	3	3
Yarn Manufacture II, Tex. 301, 302, 303, 304	1	4	1
Dyeing I, Tex. 371, 372, 373, 375	4	1	1
Textile Testing I, Tex. 343	0	0	1
Cotton Quality I & II, Tex. 420, 421	0	3	3
Knitting Calculations, Tex. 410	0	0	3
Knitted Garment Manufacture, Tex. 419	0	0	3
Knitted Laboratory II, Tex. 313, 314, 315	2	2	2
Hosiery Manufacture, Tex. 433, 434	3	3	0
Knitted Fabric Design & Analysis, Tex. 351, 352	2	2	0
**Electives	3	3	3
	21	21	20

Senior Year

Industrial Man., Personnel Man., Econ. 325, 326, 333	3	3	3
Yarn Manufacture IV, Tex. 405	3	0	0
Cotton and Rayon Dyeing I, Tex. 471, 472, 473, 474	1	4	1
Accounting I, Econ. 301, 302, 303	3	3	3
Textile Cost Methods, Tex. 355, 356	0	3	3
Mill Organization, Tex. 426, 427	0	3	3
Full Fashioned Hosiery Manufacture, Tex. 429	3	0	0
Knitting Laboratory III, Tex. 423, 424, 425	2	2	2
Flat Knitting, Tex. 428	3	0	0
Tex. Microscopy I, Tex. 475	0	0	1
**Electives	3	3	3
	21	21	19

** To be selected from the following fields: Humanities, Military Science III and IV, Language and Literature, Pure Mathematics, Pure Natural Science, and Social Science.

CURRICULUM IN TEXTILE CHEMISTRY AND DYEING

The freshman and sophomore years are the same as for Textile Manufacturing

Junior Year

COURSES	CREDITS First Term	Second Term	Third Term
English or German	3	0	0
General Economics, Econ. 201, 202, 203	3	3	3
Psychology 200, 337, 338 or Textile Courses	3	3	3
Qualitative and Quantitative Analy., Chem. 211, 212, 223	4	4	4
Dyeing II, Tex. 377, 378, 379, 381, 382	5	5	2
Textile Testing I, Tex. 343	0	0	1
Cotton Quality I & II, Tex. 420, 421	0	3	3
**Electives	3	3	3
	21	21	20

Senior Year

Industrial Man., Personnel Man., Econ. 325, 326, 333	3	3	3
Organic Chemistry, Chem. 421, 422, 423	4	4	4
Mill Organization, Tex. 426, 427	0	3	3
Fabric Finishing, Tex. 491, 492, 493, 495	4	1	1
Textile Miscroscopy II, Tex. 489, 490	1	1	0
Textile Printing, Tex. 483, 484, 485, 487	4	1	1
Cotton and Rayon Dyeing II, Tex. 477, 478, 479, 480, 481	2	5	5
**Electives	3	3	3
	21	21	20

** To be selected from the following fields: Humanities, Military Science III and IV, Language and Literature, Pure Mathematics, Pure Natural Science and Social Science.

CURRICULUM IN TEXTILE MANAGEMENT

The freshman and sophomore years are the same as for Textile Manufacturing

Junior Year

COURSES	CREDITS First Term	Second Term	Third Term
English or Modern Language	3	0	0
Accounting I, Econ. 301, 302, 303	3	3	3
Psychology 200, 337, 338	3	3	3
General Economics, Econ. 201, 202, 203	3	3	3
Yarn Manufacture II, Tex. 301, 302, 303, 304	1	4	1
Cotton Quality I & II, Tex. 420, 421	0	3	3
Textile Testing I, Tex. 343	0	0	1
Textile Courses	5	2	5
**Textiles	3	3	3
	21	21	22

Senior Year

Industrial Man., Personnel Man., Econ. 325, 326, 333	3	3	3
Marketing Methods and Sales Man., Econ. 311, 312, 313	3	3	3
Mill Organization, Tex. 426, 427	0	3	3
Cost Accounting, Econ. 404, 405	0	3	3
Yarn Manufacture, Tex. 405	3	0	0
Textile Courses	8	5	4
**Electives	3	3	3
	20	20	19

Textile courses to be selected from:

Textile Cost Methods, Tex. 355, 356	0	3	3
Fabric Design and Analysis I, Tex. 341, 342	3	3	0
Dobby Weaving, Tex. 331, 332, 333, 335	1	1	4
Dyeing, Tex. 371, 372, 373, 375	4	1	1
Textile Calculations, 345 or 413	3	or	3
Yarn Manufacture IV, Tex. 401, 402, 403	1	1	1
Dobby Design, Tex. 441	3	0	0
Jacquard Design, Tex. 445	0	0	3
Cotton and Rayon Weaving, Tex. 431, 432, 435	1	1	3
Cotton and Rayon Dyeing, Tex. 471, 472, 473, 474	1	4	1
Fabric Analysis, Tex. 451	2	0	0
Manufacturing Problems, Tex. 415	0	0	3
Color in Woven Design, Tex. 455, 456	3	3	0
Wool Manufacture, Tex. 416, 417, 418	1	4	0
Textile Microscopy I, Tex. 475	0	0	1
Textile Testing II, Tex. 457, 458, 459	1	1	1
Hosiery Manufacture, Tex. 433, 434	3	3	0

** To be selected from the following fields: Humanities, Military Science III and IV, Language and Literature, Pure Mathematics, Pure Natural Science and Social Science.

The Graduate School of the University of North Carolina

STATE COLLEGE DIVISION

William Whatley Pierson, Jr., Dean, Chapel Hill
Zeno Payne Metcalf, Associate Dean of the Graduate School, Raleigh

GRADUATE FACULTY

Professors

D. B. Anderson, Ph.D. . . . . Botany
L. D. Baver, Ph.D. . . . . Agronomy
E. W. Boshart, M.A. . . . . Teacher Education
C. H. Bostian, Ph.D. . . . . Zoology
T. E. Browne, M.A. . . . . Teacher Education
W. H. Browne, Jr., B.E. . . . . Electrical Engineering
*J. D. Clark, M.A. . . . . English
J. K. Coggin, M.S. . . . . Teacher Education
N. W. Conner, M.S. . . . . Engineering Mechanics
L. E. Cook, M.S. . . . . Teacher Education
Gertrude M. Cox, M.S. . . . . Experimental Statistics
R. W. Cummings, Ph.D. . . . . Agronomy
R. S. Dearstyne, M.S. . . . . Poultry
J. B. Derieux, Ph.D. . . . . Physics
T. C. Doody, Ph.D. . . . . Chemical Engineering
*H. A. Fisher, LL.D. . . . . Mathematics
G. W. Forster, Ph.D. . . . . Agricultural Economics
R. S. Fouraker, M.S. . . . . Electrical Engineering
B. B. Fulton, Ph.D. . . . . Entomology
M. E. Gardner, B.S. . . . . Horticulture
†A. F. Greaves-Walker, D.Sc. . . . . Ceramic Engineering
A. H. Grimshaw, M.S. . . . . Textile Chemistry
F. M. Haig, M.S. . . . . Animal Industry
C. H. Hamilton, Ph.D. . . . . Rural Sociology
*T. P. Harrison, Ph.D., LL.D. . . . . English
T. R. Hart, M.S. . . . . Textiles
†*L. C. Hartley, Ph.D. . . . . English
C. M. Heck, M.A. . . . . Physics
J. T. Hilton, M.S. . . . . Textiles
*L. E. Hinkle, D.S. es L. . . . . Modern Language
E. G. Hoefer, M.E. . . . . Mechanical Engineering
J. V. Hofmann, Ph.D. . . . . Forestry
E. H. Hostetler, M.S. . . . . Animal Industry
W. W. Kriegel, Dr. Eng. . . . . Ceramic Engineering
*A. I. Ladu, Ph.D. . . . . English
†B. E. Lauer, Ph.D. . . . . Chemical Engineering

* Humanities group advisory and minors only.
† On military leave.

‡M. C. Leager, Ph.D.	Accounting and Statistics
J. E. Lear, E.E.	Electrical Engineering
S. G. Lehman, Ph.D.	Botany
J. R. Ludington, Ph.D.	Industrial Arts Education
J. F. Lutz, Ph.D.	Soils
C. L. Mann, C.E.	Civil Engineering
F. H. McCutcheon, Ph.D.	Zoology
G. K. Middleton, Ph.D.	Agronomy
T. B. Mitchell, D.Sc.	Zoölogy
*C. G. Mumford, Ph.D.	Mathematics
Thomas Nelson, D.Sc.	Textiles
E. E. Randolph, Ph.D.	Chemical Engineering
R. B. Rice, A.M.	Experimental Engineering
R. H. Ruffner, M.S.	Animal Husbandry
G. H. Satterfield, M.A.	Chemistry
W. E. Shinn, M.S.	Textiles
I. V. Shunk, Ph.D.	Botany
G. W. Smith, D.Sc.	Engineering Mechanics
J. W. Smith, M.S.	Teacher Education
R. O. Stevens, M.S.	Zoölogy
J. L. Stuckey, Ph.D.	Geology
W. G. Van Note, M.S.	Mechanical Engineering
L. L. Vaughan, M.E.	Mechanical Engineering
B. W. Wells, Ph.D.	Botany
L. F. Williams, Ph.D.	Chemistry
A. J. Wilson, Ph.D.	Chemistry
Sanford Winston, Ph.D.	Sociology
†L. Wyman, M.F.	Forestry

Associate Professors

*S. T. Ballenger, A.M.	Modern Language
C. R. Bramer, E.M.	Civil Engineering
‡R. R. Brown, M.S. in E.E.	Electrical Engineering
*R. C. Bullock, Ph.D.	Mathematics
†*J. W. Cell, Ph.D.	Mathematics
J. M. Clarkson, Ph.D.	Experimental Statistics
E. R. Collins, Ph.D.	Agronomy
*A. M. Fountain, Ph.D.	English
H. C. Gauger, M.S.	Poultry
R. E. L. Greene, Ph.D.	Agricultural Economics
†R. Harkema, Ph.D.	Zoölogy
F. W. Lancaster, B.S. in Ch.E.	Physics
†*J. Levine, Ph.D.	Mathematics
†W. McGehee, Ph.D.	Psychology
W. D. Miller, Ph.D.	Forestry

* Humanities group advisory and minors only.
† On military leave.
‡ On leave.

*E. H. Paget, M.A. ..... English
W. A. Reid, Ph.D. ..... Chemistry
J. A. Rigney, M.S. ..... Agronomy
B. W. Smith, M.S. ..... Agronomy

Assistant Professors

M. F. Buell, Ph.D. ..... Botany
†J. M. Parker, III, Ph.D. ..... Geology
C. F. Smith, Ph.D. ..... Entomology
†L. A. Whitford, Ph.D. ..... Botany

Organization

Purposes.—Graduate Instruction at State College is organized to formulate and develop graduate study and research in the fields primarily of Agriculture, Engineering, and Textile Manufacturing, and in the training of teachers of these subjects. The urgent need for graduate instruction leading to research in these fields is recognized by the leaders in the occupations which depend upon the development of these branches of industry. State College, therefore, offers training for teachers, investigators, and leaders in Agriculture, Engineering, and Manufacturing. Moreover, unless graduate study and research in the technological and related fields are provided, the institutions of higher learning in this section of the country will look elsewhere for trained men, whereas there should be a fair balance of such men from every section of the country.

Facilities.—State College offers exceptional facilities and opportunities for research. The Agricultural Experiment Station of North Carolina, the Engineering Experiment Station, and the Research Laboratories of the Textile School are integral parts of the College. In the Textile School, besides the research carried on by regular members of the staff, the Bureau of Agricultural Economics and other Bureaus at Washington have, for some years, used the facilities of the School for special research. Graduate students have the advantages offered by all these agencies in addition to the regular laboratories used for instruction.

In its undeveloped resources and raw materials, as well as in its going concerns in business and industry, in its varied topography and products, North Carolina is a rich field for research. The State is already imbued with a spirit of progress stimulating to intellectual growth.

Scholarships and Fellowships.—The College offers annually graduate fellowships and a number of teaching and research fellowships. Besides these, special fellowships are supported by various commercial organizations.

College Fellowships give tuition and a stipend of $450 an academic year, paid in nine equal installments, a month apart, beginning October 25. The holder of a fellowship may be required to render a maximum of ten hours a week of service to the Department in which he is specializing.

* Humanities group advisory and minors only.
† On military leave.

Teaching and Research Fellowships give $600 or more an academic year. The holder of one of these fellowships may not carry more than half of a full schedule of graduate studies. The rest of his time must be given to teaching in classroom or laboratory, or to research in one of the Experiment Stations.

The Honor Society of Phi Kappa Phi Fellowship, State College Chapter, offers $50 annually, preferably to a member of the Society, to assist in promoting research, and advanced training of worthy students.

Special Fellowships have for some years been maintained by business or manufacturing organizations desirous of having research made on certain problems pertaining to their interest. Some organizations maintaining these scholarships have been the National Fertilizer Association, the N. V. Potash Export My., the American Cyanamids Company, the Superphosphate Institute, E. I. DuPont de Nemours and Company, the Niagara Sprayer and Chemical Company, Eli Lilly and Company, the American Potash Institute, and the Northwestern Yeast Company. The stipends afforded by these fellowships have varied from $720 to $1,500 for twelve months. It is hoped that some of these may be available every year.

DEGREES

The degrees awarded by the Graduate Division of State College are either degrees in residence: Master of Science in some specialized branch of Agriculture, Education, Engineering, and Textiles; and the Master's degree in some profession related to the undergraduate work at State College; or Professional degrees in the fields of Agriculture, Engineering and Textiles.

A graduate student is expected to familiarize himself with the requirements for the degree for which he is a candidate and is held responsible for the fulfillment of these requirements. This applies to the last dates on which theses may be accepted, the dates for examination, the proper form for theses and all other matters regarding requirements for degrees.

Degrees in Residence

Admission

1. A candidate for admission to graduate study must present an authorized transcript of his collegiate record as evidence that he holds a bachelor's degree for a four years' undergraduate course from a college whose standards are equivalent to those of State College.
2. All new graduate students must present to the Office of Registration written authorization from the Associate Dean of the Graduate School to enter the graduate school before permits to register can be given them.
3. Graduate students must file in the Office of Registration an application for admission before permits to register can be given them.
4. Official transcripts of undergraduate and graduate work taken at other institutions must be filed in the Office of Registration before the period of registration closes.

5. It should be clearly understood that admission to the Graduate Division does not necessarily admit a student to full graduate status. A student attains full graduate status only when he has fulfilled all the preliminary requirements of the degree which he seeks and the prerequisites of the department under whose direction he is pursuing graduate work.

Department prerequisites are determined jointly by the Administrative Board of the Graduate Division and the heads of the respective departments. In brief, it may be stated that such prerequisites usually consist of the equivalent of an undergraduate major.

6. A member of the senior class of State College may, upon the approval of the Associate Dean of the Graduate School, register for graduate courses to fill a roster of studies not to exceed eighteen credits for any term.

7. Members of the faculty of State College having a rank higher than that of instructor may not be considered as candidates for advanced degrees at this institution.

Master of Science Degree

The Master of Science Degree is awarded at State College after completion of a course of study in a specialized field related to Agriculture, Education, Engineering, or Textiles; demonstration of ability to read a modern foreign language; and completion of a satisfactory thesis and of comprehensive examinations in the chosen field of study.

The rules and requirements governing the degree of Master of Science are set forth in some detail in the following paragraphs.

In addition to complying with these purely mechanical requirements, the candidate for the Master of Science degree should understand something of the philosophy of graduate study. He is entering the field of research since he is engaged in a technical study of a single field of learning, and this study culminates in work upon a single problem, the subject of his thesis, in the solution of which he is required to give evidence of the mastery of graduate methods of investigations. He is concerned with the materials of learning, and with the organization and interpretation of these materials. Since the training is thought of as liberal, as great a latitude is permitted in the selection of courses as is compatible with the idea of a sharply defined field of major interest and with the requirement of interrelationship in the whole plan of study. The object is to make possible for the student a relative mastery of one of the applied sciences and to give him an introduction to critical scholarship and research methods. A beginning is made in the training of the specialist; hence the correlation of courses, the oral and written examinations, and the thesis. Since there are many possible combinations of courses, the method of administration provides for personal supervision of a student's work by a special committee.

Development of precision and method in investigation and the cultivation of power of criticism and evaluation of evidence, together with the enlarged mastery of the subject matter of a defined field, constitute a training of

indisputable value to the students who plan to enter the so-called learned professions or industry. Research is the way of progress in each activity.

Credits. 1. For the Master of Science degree forty-five term credits are required.

2. Not more than ten of the academic credits required for a graduate degree will be accepted from other institutions.

3. No graduate credit will be allowed for excess undergraduate credit from any other institution.

4. All work credited toward a degree in residence must be completed within six years.

Residence. A candidate for a Master of Science degree is required to be in residence at the College, pursuing graduate work, one full academic year of three terms. The candidate is not permitted to take courses leading to forty-five credits in a shorter time.

Six summer schools of six weeks in residence at the College are sufficient to fulfill the residence requirement. By specific approval of the Associate Dean of the Graduate School one summer period may be spent away from the College if devoted to the preparation of the thesis required for graduation.

In special cases, it is possible for graduate students to secure permission from the Associate Dean of the Graduate School to do twelve weeks work during a summer session. Under these provisions a minimum of four summer sessions, two of twelve weeks and two of six weeks, are required for residence.

This does not mean that the work prescribed for each individual can always be completed in the minimum length of time. Inadequate preparation very frequently makes a longer period necessary. Part-time work during a regular term is evaluated on the basis of the amount of work carried.

Courses of Study. As designated in the College Catalog under Description of Courses, the courses numbered 500 to 599 are for graduate students only, and those numbered 400 to 499 are for graduates and advanced undergraduates.

The program of the student shall contain at least twelve credits in courses of the 500 group. A maximum of 33 credits may be gained in the 400 group.

During the first term in residence the student's program will be made up by his adviser with the approval of the chief adviser of his School and the Associate Dean of the Graduate School. Thereafter, the selection of courses shall be made by the graduate student's Advisory Committee. These advisory committees shall be appointed by the Associate Dean of the Graduate School not later than the student's second term of residence.

All study plans are subject to the approval of the Administrative Board of the Graduate Division.

The advanced courses taken by a graduate student shall constitute a unified plan of study. The greater percentage of courses on a graduate student's program shall be in his major field and the electives shall have graduate relationship to the major field.

Class Work.—Since a graduate student is mature and has demonstrated his ability and earnestness, he is expected to assume greater individual responsibility and to work in a more comprehensive manner than the undergraduate student. However, in preparation, in attendance, and in all the routine of class work, the graduate student is subject to the regulations observed in other divisions of the College.

Grades.—A minimum grade of B must be made on all courses to obtain graduate credit.

Language Requirements.—1. A reading knowledge of at least one modern foreign language is required of candidates for the Master of Science degree. The knowledge will be tested by a special examination by the Modern Language Department.

2. A candidate for a Master of Science degree is presumed to have a mastery of technical writing. Students will be required to demonstrate this proficiency before they are admitted to candidacy for a degree.

Thesis.—1. A candidate for the Master of Science degree must prepare a thesis upon a subject, approved by his adviser, in the field of the student's special work. Two copies of the completed thesis must be presented to the Associate Dean of the Graduate School at least one month before the degree is awarded.

2. Detailed instruction in the writing of the thesis will be given to the student when he is admitted as a candidate for the degree.

3. In order to be approved, a thesis must be written in correct English and scholarly form. It must demonstrate the student's ability to handle original problems and the method of development must conform to the principles of the scientific method.

Examinations.—Candidates for the Master of Science degree must pass all required examinations in courses. In addition, two special examinations are required. The first of these, a written examination to determine the student's comprehension of his field, is to be set by the student's Advisory Committee and must be taken not earlier than the first month of the last quarter of residence. The second examination is oral and is especially designed for the defense of the thesis. These examinations are to be conducted by special committees appointed by the Associate Dean of the Graduate School and will be held after each committee member has examined the completed thesis.

These examinations must satisfy the committee which has charge of them that the candidate possesses such knowledge of his major and minor fields as may reasonably be expected, that he can draw upon his knowledge with promptness and accuracy, and that his thinking is not limited to the separate units represented by his courses.

The special committees on theses and on the examinations will report their recommendations to the Associate Dean of the Graduate School at least one week before the end of the last quarter of residence. If the candidate's record in these respects is satisfactory, and if he has complied with all of the

requirements for the degree, the Associate Dean of the Graduate School will report the student to the faculty for approval and recommendation to the Board of Trustees.

Fees

The graduate student in residence will pay a $2.00 registration fee for each registration, $3.00 per credit hour for all courses scheduled and $10.00 for his diploma.

Master's Degree in a Professional Field

The Master's degree was established to meet the needs of those students who expect to terminate their graduate work at the end of one year of residence or its equivalent and whose needs are not fulfilled by the requirements of the Master of Science degree.

The candidate for this Master's degree must meet all the regulations of the Graduate Division for students in residence. In addition he must fulfill the following requirements:

Course of Study. The program of study for the Master's degree in a professional field is to be composed of those courses which best fit the professional aims of the student. At least 9 term credits are to be chosen from the group of courses numbered 500 for graduates only and the remainder from the group numbered 400 for advanced undergraduates and graduates.

Degrees.—Examples of the types of degree that may be awarded upon the completion of the course of study in a professional field are:

Master of Dairying
Master of Civil Engineering
Master of Vocational Education
Master of Yarn Manufacturing

The chief characteristic of these degrees is that the changes made in requirements permit, in greater measure, the satisfaction of what are represented as professional needs than do the requirements for the conventional Master of Science degree. The most important modification in the requirements and principles is the granting of relatively greater dispersion in programs of study than is permissible under a strict application of the principle of interrelation of subjects in a specialized field.

Language Requirements.—The candidate for a Master's degree in a professional field is exempt from the requirement of a reading knowledge of a modern foreign language.

Other Requirements.—The other requirements for the Master's degree in a professional field, especially those concerning the thesis, residence and examination are the same as for the Master of Science degree.

Professional Degrees

Master of Agriculture
Master of Textiles
Ceramic Engineer
Chemical Engineer
Civil Engineer
Electrical Engineer
Mechanical Engineer

Significance. The professional degrees are not honorary; they are tests of ability and testimonials of accomplishment. To merit the professional degree, a candidate must write a thesis, which demonstrates his ability to attack and to solve a new problem of sufficient complexity to require distinctly original processes, and the solution of which shall make, however small, a real contribution to his profession. The record of his work must demonstrate his power to conceive, to plan, to organize, to carry through to completion a project of considerable magnitude. The candidate should quite obviously have grown professionally since his graduation and evince intellectual vitality to guarantee the continuance of his growth.

Requirements

1. The degree of Master of Agriculture may be conferred upon graduates of State College after five years of service in agriculture, or upon graduates of similar institutions who have performed outstanding professional service in agriculture for the State of North Carolina for a continuous period of not less than five years. The candidate for the degree of Master of Agriculture must submit a satisfactory thesis which demonstrates his ability to handle an original problem related to his professional service in agriculture.

2. The degrees in Engineering or the Master of Textiles may be conferred upon graduates of State College after five years' professional practice in responsible charge of important work, upon the acceptance of a thesis on a subject related to the practice in which the applicant has been engaged.

3. Applications for the degree must be presented to the Associate Dean of the Graduate School not less than nine months before the degree is conferred.

4. With the application for a degree, the candidate must present for approval the subject and outline of a thesis and a detailed statement of his professional work since graduation.

5. The preliminary copy of the thesis must be submitted to the Associate Dean of the Graduate School at least four months before the commencement at which the degree is to be conferred. The completed thesis in approved form must be submitted at least two months before the degree is awarded.

6. When his thesis and detailed statement of his professional work have been approved, the candidate shall appear before his Advisory Committee for oral or written examination on his professional work and thesis.

Fees

The candidate for a Professional Degree will pay $10.00 when he matriculates and $15.00 for his diploma.

The Degree of Doctor of Philosophy

The Degree of Doctor of Philosophy is offered in coöperation with The University at Chapel Hill under supervision of the Graduate School of the Consolidated University of North Carolina.

The Degree of Doctor of Philosophy is offered in certain specified departments. Graduate students who expect to become candidates for the degree are already registered in the Departments of:

Agricultural Economics
Agronomy
Entomology
Plant Pathology
Rural Sociology

Offerings will be provided in other departments as rapidly as personnel and facilities can be developed.

Information

Further information about graduate work at State College may be secured from Z. P. Metcalf, Associate Dean of the Graduate School, N. C. State College, Raleigh, N. C.

DIVISION OF COLLEGE EXTENSION

Edward W. Ruggles, Director

Purpose. The College Extension Division is organized to carry the practical and cultural advantage of college studies to persons who cannot attend classes on the campus, and to groups and communities that may profit by the service offered through the following means.

Extension Classes are organized where at least fifteen persons are interested and willing to take up the same subject. Such matters as the distance from the college, the nature of the subject, and the availability of instructors must be taken into consideration.

Correspondence Courses for college credit are offered in Agronomy, Animal Husbandry, Horticulture, Soils, Poultry, Agricultural Economics, Rural Sociology, Chemistry, Education, Economics, English, Geology, History, Architectural Engineering, Ceramic Engineering, Mechanical Engineering, Mathematics, Modern Languages, Sociology, Safety, and Zoölogy. The list of these courses is being added to as rapidly as possible. Complete information concerning them is included in the Bulletin of Correspondence Courses.

Correspondence Courses of a practical nature are offered in Business English, Mathematics, Industrial Electricity, Land Surveying, Plumbing, Engineering Drawing, Building and Estimating, Sheet-metal Pattern Drafting, Industrial Statistics and Quality Control, Poultry, Business Law, and Vegetable Gardening. In addition, the courses in Ceramic Engineering may be taken as practical where no credit is desired.

Short Courses are offered by the College Extension Division to tie up the facilities of the several Schools of State College with the trades and industries of North Carolina into a permanent educational program. In carrying out this program, short courses of a practical nature are offered every year which are increasing in popularity. During the present school year the following short courses and institutes are scheduled: Electrical Meters and Relays, Engineers, Surveyors, Gas-Plant Operators, Water-Works Men, Retail Coal Merchants, Electrical Contractors, Building Inspectors, Animal Production, State Garden School, Building or Buying a Home, Frequency Modulation, Lumber Grading, Nutrition School,, and a Safety School for Truck and Bus Operators. Additional courses are being added as the demand arises.

College Extension Lectures by members of the faculty and concerts by the college musical organizations are available to any high school, civic club, woman's club, science club, agricultural or engineering meeting or organization, desiring to put on a good lecture or musical program.

Bulletins describing the various functions of the Division will be gladly supplied on request. Write to Edward W. Ruggles, Director, College Extension Division, North Carolina State College, Raleigh, North Carolina.

Full Information.—Any person interested in extension classes or correspondence courses should write to the College Extension Division, requesting the Extension Bulletin, which contains complete information concerning methods of instruction, fees, and the conditions upon which College credit will be granted.

DESCRIPTION OF COURSES

AERONAUTICAL ENGINEERING

Under supervision of Mechanical Engineering Department until further notice.

Courses for Advanced Undergraduates

Aero. E. 300. General Aeronautics 0-3-0

Prerequisites: Math. 101, 2, 3.

Required of juniors taking Aeronautical Engineering. A study of simple aerodynamics and the airplane.

Text: Carter, *Simple Aerodynamics.* Mr. Truitt.

Aero. E. 310. Elementary Aeronautics 0-0-3

Prerequisites: Phys. 201, 202, 203.

Required of juniors taking Aeronautical Engineering. A study of the design of simple component parts of the airplane.

Text: Anderson, *Aircraft Layout and Detail Design.* Staff.

Aero. E. 332, 333. Air Transportation* 0-3-3 or 3-3-0

Prerequisites: Aero. E. 310.

The various phases of airport design, air transportation and airline operation are studied in this course. This includes a survey of existing conditions, factors governing development, topographic survey, runway layout, methods of aircraft operations, personnel organization and aviation law. Practical examples are studied at the University-owned and operated airport.

Text: *Lecturer's Notes.* Staff.

Aero. E. 421, 422, 423. Airplane Design 3-3-3

Prerequisites: E.M. 313, 322, C.E. 321 and Aero. E. 310.

Required of seniors taking Aeronautical Engineering.

A study of the design and construction of airplanes.

Text: Niles & Newell, *Vol. I, Airplane Structures;* Teichmann, *Airplane Design Manual.* Mr. Rautenstrauch.

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* Will not be given in 1946-47.

Aero. E. 431, 432, 433. Aerodynamics 3-3-3

Prerequisites: Math. 303. Aero. E. 310.

Required of seniors taking Aeronautical Engineering.

A study of engineering aerodynamics, airplane performance and stability, and airworthiness specifications.

Text: Diehl. *Engineering Aerodynamics:* Jones, *Elements of Practical Aerodynamics.* Mr. Rautenstrauch.

Aero. E. 441, 442, 443. Aeronautical Laboratory 1-1-1

Prerequisites: M.E. 313, 314, 315.

Required of seniors taking Aeronautical Engineering.

Laboratory testing and study of practical aspects of modern airplane construction, operation and maintenance. Staff.

Aero. E. 451. Aircraft Engines 0-0-3

Prerequisites: M.E. 307, 308, 309.

Required of seniors taking Aeronautical Engineering.

The practical aspect of aircraft engine operation and design including carburetors, magnetos, super-chargers, fuel and oil systems, engine installations and accessories.

Text: *Lecturer's Notes.* Staff.

Aero. E. 461. Aircraft Instruments and Navigation* 3-0-0

Prerequisites: Aero. E. 310 or 351 and 352.

Elective.

This course deals with the instruments used in aircraft engine operation, flight indication, and in navigation. The use, principle of operation, and calibration is studied in detail. The fundamentals of navigation include problems in navigation such as course plotting, radius of action from fixed and moving bases and interception.

Text: *Lecturer's Notes.* Staff.

Aero. E. 471. Aircraft Propeller Design* 3-3-3

Prerequisites: Aero. E. 310.

Elective.

The various theories are discussed in this design course. This embraces effect of blade shape, tip speed, and gearing on propeller performance. The various types of propellers are studied in detail.

Text: Wieck. *Aircraft Propeller Design.* Mr. Rautenstrauch.

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* Will not be given in 1946-47.

Courses for Graduates Only

Aero. E. 531, 532, 533. Advanced Aerodynamics 3-3-3

Prerequisites: Aero. E. 431, 432, 433.

Advanced performance calculations and tests. Mr. Rautenstrauch.

Aero. E. 541, 542, 543. Aeronautics Research 3-3-3

Prerequisites: Aero. E. 441, 442, 443.

Research and thesis in connection with an aeronautical project.

Staff.

AGRICULTURE

Agr. 101. Introduction to Agriculture 1-0-0

Organization and function of agricultural institutions and agencies; North Carolina agriculture in relation to state and national problems.

Mr. Baver.

AGRICULTURAL ECONOMICS

Courses for Undergraduates

Agr. Econ. Agricultural Economics. 3 or 3-0

The economics of agricultural production, the marketing of farm products, farm credit, land tenure, and other major economic problems of the farmer.

Staff.

Agr. Econ. 212. Land Economics. 0-3-0

Prerequisites: Econ. 201, 202.

Land economics including land classification and land use with special emphasis on forest land; land ownership and control; the principles of land valuation; policies of land settlement and development; the taxation of forest lands. Staff.

Agr. Econ. 303. Farm Management I. 0-0-3

Prerequisites: Econ. 201, 202.

Successful operation of the farm, farm planning, management of labor, farm work programs, use of machinery, and farm administration.

Messrs. Forster, Greene.

Agr. Econ. 313. Farm Accounting. 0-0-3

Prerequisite: Econ. 201, 202.

Farm accounting, preparation of inventories of farm property, simple financial statements, methods of keeping farm records, analysis and the interpretation of results obtained from farm business transactions.

Mr. Greene.

Courses for Graduates and Advanced Undergraduates

Agr. Econ. 402, 103. Farm Cost Accounting. 0-3-3

Prerequisites: Econ. 201, 202, and 301.

Accounting applied to farm transactions, the preparation of financial statements, the methods of keeping farm records, analysis of an individual farm record, the interpretation of the results from cost-accounting.

Mr. Greene.

Agr. Econ. 411. Agricultural Marketing. 3-0 0

Prerequisites: Econ. 201, 202.

Successful marketing of farm products, market organization and control, price-making forces; critical examination of the present system of marketing farm products. Mr. Leager.

Agr. Econ. 112. Problems of Land Economics. 0-3 0

Prerequisites: Econ. 201, 202, Agr. Econ. 202, and 6 additional term credits in Economics.

Land classification; ownership and acquisition of land; tenancy and land ownership; the functions of the landlord and the tenant; land valuation and land speculation. Messrs. Forster, Hamilton.

Agr. Econ. 421. Marketing Methods and Problems. 3 0-0

Prerequisites: Econ. 201, 202, Agr. Econ. 202, and 6 additional term credits in Economics.

The problems and methods involved in the marketing of farm products; suggestions for improvement. Mr. Abrahamsen.

Agr. Econ. 422. Agricultural Coöperation. 0-3-0

Prerequisites: Econ. 201, 202.

Local community coöperation, both economic and social; farmers' buying, selling, and service organization. Mr. Abrahamsen.

Agr. Econ. 123. Farm Management II. 0-0-3

Prerequisite: Agr. Econ. 303.

The factors involved in the management and organization of typical farms in the State. Messrs. Greene, Forster.

Agr. Econ. 131. Agricultural Prices. 3-0-0

Prerequisites: Econ. 201, 202, Agr. Econ. 202, 303.

Behavior of agricultural prices; their relation to consumption, production of farm products, and marketing practices; methods of price analysis applied to agricultural products. Mr. Anderson.

Agr. Econ. 132. Agricultural Finance. 0-3-0

Prerequisites: Econ. 201, 202, Agr. Econ. 202, and 6 additional term credits in Economics.

Financing the production and marketing of agricultural products. Consideration of farm mortgage credit, personal and intermediate credit, and agricultural taxation. Mr. Leager.

Agr. Econ. 142. Cotton and Tobacco Marketing. 0-3-0

Prerequisites: Econ. 201, 202, Agr. Econ. 202, Agr. Econ. 411, and 3 additional credits in Economics.

The problems, methods, and practices used in the marketing of tobacco and cotton. Mr. Forster.

Agr. Econ. 113. Cooperative Accounting. 0-0-3

Prerequisites: Econ. 201, 202, and 301.

Accounting methods, principles, and techniques as applied to farm cooperative business. Mr. Leager.

Agr. Econ. 152. History of the Agricultural Adjustment Program. 0-3-0

Economics of the Agricultural Adjustment Acts, and of the Agricultural Conservation Programs; the effect of the programs on production and prices of cotton, tobacco, wheat, corn, and hogs. Mr. Forster.

Courses for Graduates Only

Agr. Econ. 501. Economics of Agricultural Production. 3-0-0

Prerequisites: Econ. 201, 202, Agr. Econ. 202, and 6 additional term credits in Economics.

Economic theories and methods of analyses applicable to agricultural production. Mr. Forster.

Agr. Econ. 502. Farm Organization and Management. 0-3-0

Prerequisites: Agr. Econ. 303, 423, 501, and 6 additional term credits in Economics.

The extension of the economic principles discussed in Agr. Econ. 501, and their application to the problems of farm organization and management.

Mr. Forster.

Agr. Econ. 503. Agricultural Finance. 0 0 3

Prerequisites: Econ. 201, 202, Agr. Econ. 432, and 6 additional term credits in Economics.

Problems in financing agricultural production and marketing. A history of the development of financial institutions designed to serve agriculture.

Mr. Leager.

Agr. Econ. 513. Coöperative Marketing Methods and Practices. 0-0 3

Prerequisites: Econ. 201, 202, Agr. Econ. 432, and 6 additional term credits in Economics.

A critical study of the methods and practices used by large agricultural coöperatives. Mr. . .

Agr. Econ. 521, 522, 523. Research in Agricultural Economics. 3 3-3

Prerequisites: Economics 201, 202, and 6 additional term credits in Economics.

A consideration of the research method and procedure now being employed by research workers in the field of Agricultural Economics, including qualitative and quantitative, inductive and deductive methods of research procedure; choice of projects, planning, and execution of the research project. Messrs. Forster, Greene.

Agr. Econ. 531, 532, 533. Analysis of National Policies and Agricultural Action Programs. 3-3-3

Prerequisites: Econ. 201, 202, Agr. Econ. 202 and six additional term credits in Economics or Agricultural Economics.

Critical discussion of modern methods of economic analysis from the viewpoint of their applicability to problems of economic policy: an examination of the major agricultural action programs in the United States; the analysis of principles of economic policy with regard to their effect upon national and farm income and income distribution. Mr. Forster.

AGRICULTURAL ENGINEERING

Courses for Undergraduates

Agr. Eng. 202. Farm Equipment. 0-4 or 4

Prerequisites: Math. 111 or Physics 115 or 201.

A study of modern farm machinery, equipment and buildings for the farm. Staff.

Agr. Eng. 212. Farm Engines. 0-3-0

Prerequisites: Physics 115 or 201.

The principles of gas-engine operation and their application to farm uses; selection, poeration, and repair of engines. Mr. Giles.

Agr. Eng. 222. Agricultural Drawing. 0-3-0

Drawing-board work covering both freehand sketching and elementary mechanical drawing; working and pictorial drawing, lettering, maps, graphs, tracing, and blueprinting. Mr. Weaver.

Courses for Advanced Undergraduates

Agr. Eng. 303. Terracing, Drainage and Irrigation. 0-0-3

Prerequisites: Soils 202 and Agr. Eng. 202.

The different methods of disposing of surplus water and the prevention of erosion. Mr. Weaver.

Agr. Eng. 313. Farm Machinery and Tractors. 0-0-3

Prerequisite: Agr. Eng. 202.

The design, construction and operation of modern labor-saving machinery for the farm. Mr. Giles.

Agr. Eng. 322. Farm Buildings. 0-3-0

Prerequisite: Agr. Eng. 202.

The design, construction, and materials used in modern farm buildings. Mr. Weaver.

Agr. Eng. 331, 332. Farm-Shop Work. 3-3-0

Prerequisite: Agr. Eng. 202.

Lecture and laboratory practice, in drafting, sharpening farm tools, making concrete, woodworking, cold-metal working, forging, soldering, and pipe fitting. Mr. Giles.

Courses for Graduates and Advanced Undergraduates

Agr. Eng. 403. Erosion Prevention. 0-0-3

Prerequisite: Agr. Eng. 303.

The causes and effects of erosion, and the methods of conserving our greatest national resource our fertile soil. Mr. Weaver.

Agr. Eng. 423. Farm Structures. 0-0-3

Prerequisite: Agr. Eng. 322.

Modern building methods as applied to farm structures; the use of labor-saving barn equipment and methods of reducing labor to a minmum; the placing of the farm group in relation to topography and farm activities, for economy, appearance, and utility. Mr. Weaver.

Agr. Eng. 432. Rural Electrification. 0-3-0

Prerequisite: Agr. Eng. 322.

Problems involved in the distribution, uses, and costs of electricity on the farm. Mr. Weaver.

Agr. Eng. 433. Teaching Farm-Shop Work. 0 0-3

Prerequisites: Agr. Eng. 331 and 332.

The use and care of power tools; shop management and methods of presenting the subject matter. Messrs. Giles, Collins.

Agr. Eng. 481, 482, 483. Special Problems in Agricultural Engineering. 3 3-3

Prerequisites: Agr. Eng. Three credits in 300 courses.

For students who desire advanced work in one of the following subjects: Farm Engines, Tractors, Farm Mach., Buildings, Conveniences, Rural Electrification, Erosion Control and Drainage. Messrs. Weaver, Giles.

Agr. Eng. 491, 492, 493. Senior Seminar. 1-1-1

Prerequisite: Senior standing in Agr. Eng.

Students will be assigned special problems the results of which are to be presented to the class. Messrs. Weaver, Giles.

Courses for Graduates Only

Agr. Eng. 503. Advanced Drainage, Irrigation and Erosion Control. 0-0-5

Prerequisites: Grad. standing in Agr. Eng., Land Improvement Option.

An advanced study of the more complex problems in Drainage, Irrigation and Erosion Control methods. Staff.

Agr. Eng. 523. Advanced Farm Structures. 0-5-0

Prerequisites: Grad. standing in Agr. Eng., Rural Structures Option.

A more advanced study of the problems of Farm Structures than is give in courses Agr. Eng. 322 and Agr. Eng. 423. Mr. Weaver.

Agr. Eng. 521, 522, 523. Research in Agr. Eng. 5-5-5

Prerequisites: Grad. standing in Agr. Eng., Any Option.

Research in specialized phases of Agr. Eng. By arrangement, Staff.

Agr. Eng. 531, 532, 533. Seminar. 1-1-1

Prerequisites: Grad. standing in Agr. Eng., Any Option.

Scientific Articles, Progress Reports in Research, and special problems of interest to Agricultural Engineers will be assigned, reviewed and discussed by students and members of the Agr. Eng. Staff.

DESCRIPTION OF COURSES IN ANIMAL INDUSTRY

Courses for Undergraduates

A.I. 101. Introduction to Animal Industry. 4 or 4-0

The fundamental principles of successful livestock farming. Production and processing of livestock products. The importance of animal products in the human diet. Staff.

A.I. 301. Types and Market Classes of Livestock. 5-0-0

A study of the types and market grades and classes of dairy cattle, beef cattle, swine, sheep, horses and mules together with their adaptabilities and distribution. Messrs. Pierce and Haig.

A.I. 302. Judging and Selection—Dairy Cattle. 0-3-0

Breed characteristics and score-card requirements for the five major breeds of dairy cattle. Relation of form to function. Practice judging. Messrs. Haig and Ruffner.

A.I. 303. Judging and Selection—General Livestock. 0-0-3

Fundamental principles involved and the practice of comparative judging of the different types and breeds of meat animals and work stock.

Messrs. Pierce and Ammerman.

A.I. 304. Advanced Judging and Selection—General Livestock 3-0-0

Prerequisite: A.I. 303.

Practice and reasons in comparative judging of beef cattle, sheep, swine, horses, and mules. Only for students who have shown proficiency in general livestock judging. Extra curricular time will be required of students interested in training for judging teams. Mr. Pierce.

A.I. 306. Advanced Judging and Selection—Dairy Cattle. 0-0-3

Prerequisite: A.I. 302.

Special emphasis on show-ring requirements for dairy cattle; advanced judging practice with oral reasons. Judging trips to various leading dairy farms will be made. Such dairy cattle judging teams as may be chosen to represent the College will be selected from among those taking this course.

Mr. Haig.

A.I. 312. Animal Nutrition I. 0-3-0

Prerequisites: Chem. 203 (or equivalent) and Zool. 201.

Metabolism of carbohydrates, liquids, proteins, inorganic elements, and vitamins. Messrs. Peterson and Haig.

A.I. 323. Meat and Meat Products. 0-0-5

A study of live animal and carcass relationships, dressing percentages, and cut-out values. Slaughtering, cutting, curing, freezing, and handling of meats and meat products for commercial and home use.

Messrs. Brady and Blumer.

A.I. 324. Meat Selection. 2-0-0

Prerequisites: A.I. 323.

A detailed consideration of the factors involved in the selection of carcasses and wholesale cuts of beef, pork and lamb. A thorough study of the identification of retail cuts and their adaptabilities for utilization.

Messrs. Brady and Blumer.

A.I. 331. Livestock Production. 0-0-5

For students in agricultural education.

A study of the problems encountered in dairy and general livestock production in North Carolina and adjacent areas. Attention to the various classes of livestock will be in proportion to their importance in the agriculture of the area. Messrs. Ruffner and Hostetler.

A.I. 341-342-343. Livestock Production I, II, and III. 3-3-3

Principles and practices of general livestock management. Development of farm herds and flocks. Practical applications in feeding, breeding, and herd management on livestock farms. Subject matter sub-divided on the following basis:

I—Swine and Workstock, II Beef cattle and sheep, III—Dairy cattle.

Messrs. Foster, Hostetler, Haig, Ruffner and Stewart.

A.I. 353. Livestock practicum. 0-0-3

Practice in the feeding and care of farm animals.

The use of equipment needed and methods used in fitting and training animals for exhibition. Staff.

A.I. 362. Diseases of Farm Animals. 0-4-0

Prerequisite: Botany 312 and Zool. 201.

Etiology and symptoms of infectious, non-infectious, and parasitic diseases of farm animals. Methods of spread of common infectious diseases with especial emphasis upon economic losses and methods of prevention, control, and eradication of the major diseases of farm animals.

Mr. Grinnells.

Courses for Advanced Undergraduates and Graduates

A.I. 402. Animal Breeding. 0-5-0

Prerequisites: Zool. 411.

Physiology of reproduction and the mode of inheritance of important characteristics in farm animals. Origin, history, and adaptability of the breeds of livestock. Special emphasis on the place of selection, artificial insemination, inbreeding, and crossbreeding in an over-all program of animal improvement. Mr. Stewart.

A.I. 413. Animal Nutrition II. 0-0-4

Prerequisite: A.I. 312.

The determination of digestibility; nutritional balances; measures of total nutritive energy; the fasting catabolism; growth; reproduction; lactation; work production; feeding standards; calculation of rations.

Mr. Peterson.

A.I. 421, 422, 423. Animal Industry Seminar. 0-0-1

Animal industry majors will be required to participate for three quarters and will receive one credit in the third quarter.

Review and discussion of special topics and the current literature pertaining to all phases of Animal Production. Staff.

Courses For Graduates Only

A.I. 501, 502, 503. Topical Problems in Animal Industry. 3-3-3

Staff.

A.I. 511, 512, 513. Advanced Nutrition. 3-3-3

Prerequisite: A.I. 413.

The role of proteins, minerals, and vitamins in the nutrition of animals.

Mr. Peterson.

A.I. 521. Research Method in Animal Science. 3-0-0

Prerequisite: Stat. 413.

Sources of errors in experiments with animals, experimental designs adapted for specific types of animal research, estimation of data required for specified accuracy, factors involved in the increase of accuracy at minmum cost. Mr. Comstock.

A.I. 525. Statistical Concepts in Genetics. 0-3-0

Prerequisite: Stat. 412.

The composition of phenotypic variance and the estimation of environmental, genetic, and heritable geentic variance. Coefficients of inbreeding and relationship. The effects of various selection procedures and systems of breeding on population means and variances. Mr. Comstock.

A.I. 526. Modern Research in Animal Breeding. 0-0-3

Prerequisite: A.I. 402.

Review and appraisal of contemporary research in animal breeding.

Mr. Stewart.

A.I. 531, 532, 533. Research in Animal Industry. 1-5, 1-5, 1-5

Staff.

ARCHITECTURE AND ARCHITECTURAL ENGINEERING

Courses for Undergraduates

Arch. 100. Pencil Sketching. 3 or 3 or 3 or 1-1-1

Required of seniors in L. A., and sophomores in Ind. Arts. Elective for Engineering and Textile students.

Quick sketching of objects as seen and imagined in perspective; elementary principles of perspective, especially as applied to the visualization of imagined objects. *Mimeographed Notes and Problems Sheets.*

Messrs. Paulson, Baumgarten.

Arch. 101, 102, 103. Freehand Drawing 1, 2, and 3. 2-2-2

1. Required of juniors in Arch., and Arch. Eng.

Water color rendering. Nature and qualities of pigments; theory of color and of tone; presentation of decorative and of pictorial subjects in monochrome and in full color. Guptill: *Reference to Color.*

2. Required of juniors in Arch., Arch. Eng., and L. A.

Sketching in pencil, and pen and ink from models, casts and nature. Emphasis upon tonal value, pattern of darks, character and variety of line, and accenting. Lettering. Watson: *Pencil Sketching.*

3. Required of juniors in Arch., Arch. Eng., and L. A.

Charcoal Drawing from architectural casts and models; emphasis upon delicacy and gradation of shade and shadow; value sketches of composition projects. Mr. Paulson.

Arch. 104s. Art Appreciation for Teachers. 0-0-3

Picture study of the list suggested by the State Board of Education for grade-school use, including paintings, architecture, and sculpture. Paulson: *Art Appreciation for Teachers.* Mr. Paulson.

Arch. 105. Art Principles in Industry. 3-0-0

Elective for Engineering and Textile students, required of sophomores in Industrial Arts.

Line, form, color, and aesthetic principles of practical art applicable to the design of articles for manufacture. *Mimeographed Notes.* Mr. Paulson.

Arch. 106. Decorative Drawing. 3 or 3 or 3

Required of juniors in the Textile School.

Freehand drawing and creative designing of decorative motives adaptable to weaving and cloth printing. *Mimeographed Problem Sheets.*

Mr. Paulson.

Arch. 107. Architectural Drawing. 3-3-0

Required of freshmen in Architecture. M. E. 105 and 106 may be substituted for Arch. 107.

[Drafting Practice.] Use of instruments in drawing plans, elevations, sections; projections; architectural lettering and conventions; tracing and blueprinting; elements of architecture and introduction to design. Pickering: *Architectural Design.* Messrs. Baumgarten, Grady.

Arch. 111, 112, 113. Appreciation of Fine Arts, Architecture, Painting, Sculpture. 3-3-3

Elective for students of junior standing.

Principles of art. Study of those qualities which constitute great art. First term, architecture; second term, painting; third term, sculpture and the minor arts. Reinach: *Apollo; University Prints; Mimeographed Notes.* Gardner: *Art Through the Ages.* Mr. Paulson.

Arch. 114. Clay Modeling. 1-1-1

Prerequisite: Arch. 100.

Required of seniors in Arch.

Modeling of ornament, reliefs, and full round projects in clay or wax; moulds and plaster casting; small scale building detail models. Lectures, laboratory, and critiques. Mr. Grady.

Courses for Advanced Undergraduates

Arch. 201, 202, 203. Elements of Architecture I, II, and III. 3-3-3

Prerequisites: M. E. 105, 106, or Arch. 107.

Required of sophomores in Arch., Arch. Eng., and L. A.

Exercises and studies of architectural elements and details, walls, openings, etc. The orders of architecture and their application to simple problems in composition and design. Pickering: *Architectural Design;* Ramsey and Sleeper: *Graphic Standards.* Messrs. Shumaker, Grady.

Arch. 205. Shades and Shadows. 2 0-0

Prerequisite: M. E. 107.

Required of sophomores in Arch., Arch. Eng., and juniors in L. A.

The determination of conventional shades and shadows as they occur on rendered drawings. Shelton: *Architectural Shades and Shadows.*

Messrs. Shumaker, Grady.

Arch. 206. Perspective Drawing. 1-0-0

Prerequisite: M. E. 107.

Required of sophomores in Arch., Arch. Eng., and of juniors in L. A. and Agr. Engr.

Theory of perspective with special applications to illustration and design. Lectures and drawing. Turner: *Fundamentals of Architectural Design.*

Mr. Baumgarten.

Arch. 207. Historic Motives in Textiles. 0-3-0

Elective for students of junior standing.

Chronologic development of ornament motives; the adaptation of historic motives to modern textile design. Hamlin: *History of Ornament.*

Mr. Paulson.

Arch. 211, 212, 213. Freehand Drawing 4, 5, and 6. 3-3-3

Prerequisite: Arch. 103.

Required of fifth year Arch., elective for others.

The purpose of this course is to give the student a mastery of presentation in his own chosen medium. The first term (Arch. 211) will be devoted principally to still life; the second (Arch. 212) to landscape; the third (Arch. 213) to figure drawing. Personal technique encouraged; sound principles of drawing insisted upon. Mr. Paulson.

Arch. 301, 302, 303. Intermediate Design. B-1. B-2, B-3. 3-3-3

Prerequisites: Arch. 201, 202, 203.

Required of juniors in Arch., and Arch. Eng.

Problems in elementary composition, design, planning and rendering. Library research. Registration with the Beaux Arts Institute of Design may be required. *Beaux Arts Institute Problems.* Messrs. Baumgarten, Grady.

Arch. 304. Photographic Practice. 0-0-1

Required of juniors in Arch., and Arch. Eng.

The practical use of photography as an aid in architectural rendition. *Lectures, Notes* and *Assignments.* Mr. Paulson.

Arch. 305. Working Drawings. 0-0-2

Prerequisites: Arch. 201, 202, 203.

Required of sophomores in Arch.

The preparation of working drawings of sections and details of construction. Ramsey and Sleeper: *Graphic Standards;* Knoblock: *Good Practice in Construction.* Messrs. Shumaker, Grady.

Arch. 321, 322, 323. History of Architecture 1, 2, and 3. 3-3-3

Prerequisite: Arch. 203.

Required of juniors in Arch., Arch. Eng., and L. A.

The origin and development of historic styles of architecture from antiquity to the nineteenth century. Illustrated lectures, library references, sketches. Fletcher: *History of Architecture;* Hamlin: *History of Architecture.* Mr. Baumgarten.

Arch. 325. History of Sculpture and Mural Decoration. 0-0-2

Prerequisite: Arch. 203.

Required of juniors in Arch.

The development of sculptural and mural art as adjuncts to architecture, ancient to modern; critique of modern decoration supplementary to architecture. Mimeographed notes, library reference and illustrated lectures.

Mr. Grady.

Arch. 351, 352. Architectural Design E-1, E-2. 3-3-0

Prerequisite: Arch. 303.

Required of seniors in Arch. Eng.

Advanced Architectural Design studied especially from the viewpoint of structure; projects developed with wall and spanning sections; rendered presentation of practical constructive programs.

Messrs. Baumgarten, Grady.

Arch. 353, 354, 355. Architectural Design B-4, B-5, and B-6. 6 6-6

Prerequisite: Arch. 303.

Required of seniors in Arch.

Advanced programs in architectural design. Registration with the Beaux Arts Institute of Design may be required. Complete presentation drawings of *projects* such as Class B—*Beaux Arts Institute Problems.*

Messrs. Baumgarten, Grady.

Arch. 401, 402, 403. Architectural Design A-I, A-II, A-III. 6 6-6

Prerequisite: Arch. 355.

Required of fifth year in Arch.

Major problems in advanced planning and research. Registration with the Beaux Arts Institute of Design may be required. *Beaux Arts Institute Problems.* Messrs. Shumaker, Baumgarten, Grady.

Arch. 107. Architectural Composition. 2-0-0

Prerequisite: Arch. 323.

Required of fifth year in Arch.

Principles of planning and composition as related to buildings; architectural motives, group planning; library research and sketches. Curtis: *Architectural Composition.* Mr. Shumaker.

Arch. 408. Architectural Estimates. 0-0-2

Prerequisite: Arch. 305.

Required of fifth year in Arch. and seniors in Arch. Engr.

Lectures and problems in taking off quantities and in estimating materials and labor cost in building construction. *Mimeographed Notes.*

Mr. Shumaker.

Arch. 409. Building Materials I. 3-0-0

Prerequisite: Arch. 303.

Required of seniors in Arch. and Arch. Eng.

Nature and qualities of building materials, especially fabricated materials, and their use in interior and exterior finish and in construction. Sample exhibits, lectures and demonstrations. *Manufacturers' Data Sheets.*

Mr. Grady.

Arch. 411, 412. Architectural Office Practice. 0-3-3

Prerequisite: Arch. 305.

Required of juniors in Arch.. seniors in Arch. Eng.

The preparation of working drawings from sketches, following office routine. Knoblock: *Good Practice in Construction;* Ramsey and Sleeper: *Graphic Standards.* Messrs. Baumgarten, Grady.

Arch. 414. Professional Practice. 0-0-1

Prerequisite: Econ. 307.

Required of fifth year in Arch.

Ethics and procedure in the profession of architecture. Relation of patron and commissionee. *Mimeographed Notes.* Mr. Shumaker.

Arch. 415. City Planning. 0-2-0

Prerequisite: Arch. 323.

Required in fifth year in Arch.

Origin and development of urban communities; aesthetic, economic, and circulatory problems in city and town planning; zoning and restraining legislation. Messrs. Shumaker, Baumgarten.

Arch. 416. Architectural Specifications. 0-0-3

Prerequisite: Econ. 307.

Required of seniors in Arch. and Arch. Eng.

Execution of specifications for architectural building contracts; identification of material. clarification of terms; protection of patron, contractor, and architect. *Mimeographed Notes.* Mr. Shumaker.

Arch. 421. History of Architecture 4. 0-3-0

Prerequisite: Arch. 323.

Required in fourth year in Arch.

Nineteenth century and contemporary architectural styles, with special attention to trends resulting from the use of modern materials; illustrated lectures, discussion assignments, and reports. Fletcher: *History of Architecture.* Mr. Baumgarten.

Arch. 501, 502, 503. Graduate Design I, II, III. 4-4-4

Prerequisites: Arch. 323, 403 (or 352).

Class A.—Project. Advanced problems in design. Archaeology. Measured Drawings. Registration with the Beaux Arts Institute of Design is required. *Beaux Arts Institute Problems.* Messrs. Shumaker, Baumgarten, Grady.

Arch. 511, 512, 513. Historic Research I, II, III. 4-4-4

Prerequisites: Arch. 323, 403 (or 352).

Research in Architecture and Art in some important phase of its development. Library work with sketches. *Library References.*

Messrs. Paulson, Baumgarten, Grady.

BOTANY

Courses for Undergraduates

Bot. 101, 102. General Botany. 4-4-0 or 0-4-4

Forestry students will follow a 4 4-0 sequence.

The first term: The structure and physiology of the higher plants; the second: a survey of the major lower plant groups with the emphasis upon the economic forms, bacteria and fungi.

Messrs. Wells, Shunk, Whitford, Buell.

Bot. 203. Systematic Botany. 0-0-3

Prerequisites: Bot. 101, 102.

An introduction to the local flora and the classification of the plants included therein. Messrs. Wells, Shunk, Whitford, Buell.

Bot. 211-213. Dendrology. 3-0-3

Prerequisites: Bot. 101, 102, 203.

The principal trees of North America. Mr. Buell.

Courses for Advanced Undergraduates

Bot. 301. Diseases of Field Crops. 3-0-0

Prerequisites: Bot. 101, 102, 321.

The more important diseases of field crops, such as cotton, tobacco, corn, small grains, legumes, and grasses; emphasis on symptoms, cause, and control. Mr. Lehman.

Bot. 302. Diseases of Fruit Crops. 0-3-0

Prerequisites: Botany 101, 102, 103.

Causes, symptoms, and control of the more important fruit diseases. Mr. Clayton.

Bot. 303. Diseases of Vegetable Crops. 0-0-3

Prerequisites: Botany 101, 102, 321.

Symptoms, causes, and means of controlling important vegetable diseases. Mr. Jensen.

Bot. 311. Diseases of Forest Trees. 3-0-0

Prerequisites: Bot. 101, 102, 321.

Lectures and laboratory studies of importance, causes, symptoms, and control of diseases affecting trees and their products. Mr. Ellis.

Bot. 312. General Bacteriology. 0-4 or 4

Prerequisites: Bot. 101, 102, or Zool. 101.

An introduction to the principles of bacteriology; laboratory work on modern cultural methods of handling and studying bacteria. Mr. Shunk.

Bot. 321. Plant Physiology. 5-0 or 5

Prerequisites: Bot. 101, 102.

The activities of living plants with special emphasis upon the fundamental principles concerned. Mr. Anderson.

Bot. 331. Plant Microtechnique. 3-0-0

Prerequisites: Bot. 101, 102.

Materials and processes involved in the preparation of plant structures for microscopic examination. Mr. Anderson.

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Courses for Advanced Undergraduates and Graduates

Bot. 402. Crop Geography. 0 3-0

History, distribution and ecology of cultivated plants. Mr. Wells.

Bot. 411-412. Plant Morphology. 3-3-0

Prerequisites: Bot. 101, 102, 203.

An advanced survey of plants; the lower groups are given the first term, the higher (land plants) the second. Messrs. Wells. Shunk. Whitford.

Bot. 413. Plant Anatomy. 0-0 3

Prerequisites: Bot. 411-412.

The microscopic structure of higher plants with particular emphasis on the economic types. Mr. Kerr.

Bot. 421. Systematic Botany of Grasses. 3-0 0

Prerequisite: Bot. 203.

Identification and classification of important species. Mr. Buell.

Bot. 122. Methods in Plant Pathology. 0-4-0

Prerequisites: Bot. 101, 102, 312, 321, and one of the following: 301, 302, 303 or 311.

Survey of and laboratory exercises in essential methods used in the study of plant pathological problems. Mr. Jensen.

Bot. 423. Systematic Botany of Economic Dicot Families. 0-0 3

Prerequisite: Bot. 203.

Identification, classification and economic significance of such important families as Leguminosae, Rosaceae, and Solanaceae. Mr. Buell.

Bot. 432, 433. Advanced Plant Physiology. 0-3-3

Prerequisites: Bot. 101, 102, 321.

A critical and comprehensive treatment of the various aspects of plant physiology; particular attention given to basic principles and to recent developments. Mr. Anderson.

Bot. 441. Plant Ecology. 3-0-0

Prerequisites: Bot. 101, 102, 321.

Environmental control of plant distribution with emphasis upon the habitats and vegetation of North Carolina. Mr. Wells.

Bot. 442. Microanalysis of Plant Tissue. 0-3-0

Prerequisites: Bot. 101, 102, 321.

The identification in plant tissues of mineral elements and organic compounds and the physiological significance of these materials. Mr. Anderson.

Bot. 443. Soil Microbiology. 0-0-3

Prerequisites: Bot. 101, 102, 321, 312.

The more important microbiological processes that occur in soils: decomposition of organic materials, ammonification, nitrification, and nitrogen fixation. Mr. Shunk.

Bot. 452. Advanced Bacteriology. 0-3-0

Prerequisites: Bot. 101, 102, 312.

Methods used in the bacteriological analysis of water and milk.

Mr. Shunk.

Bot. 453. Advanced Plant Ecology. 0-0-3

Prerequisites: Bot. 321, 441.

Practice in the use of the instruments necessary in the study of environmental factors; advanced readings and conferences on plant distribution in relation to these factors. Mr. Wells.

Bot. 462. Research Methods in Plant Physiology. 0-3-0

Experience in the use of techniques important in physiological research.

Mr. Anderson.

Bot. 473. Aquatic Biology. 0-0-3

Prerequisites: Bot. 101, 102.

Identification and control of the aquatic algae and protozoa which give trouble in reservoirs. A survey of the higher water and marsh plants is also included. Mr. Whitford.

Bot. 491. Principles of Plant Pathology. 0-5-0

Prerequisites: Bot. 101, 102, 321, and one of the following: 301, 302, 303 or 311.

An advanced study of the epiphytology and etiology of diseases of plants. Mr. Lehman.

Bot. 501, 502, 503. Plant Pathology: Special Studies. 3-3-3

Prerequisite: Admittance only w ith permission of instructor.

Selected or assigned problems in various phases of phytopathological investigation. Diseases of special crops, current literature and new techniques will be emphasized. Staff.

Bot. 511, 512, 513. Bacteriology: Special Studies. 3-3-3

Prerequisites: Bot. 312, 452.

Special work on restricted groups of bacteria, such as nitrogen bacteria of the soil, milk organisms, and special groups of bacteria in water. Mr. Shunk.

Bot. 521. Advanced Systematic Botany. 3-0-0 or 0-0-3

Prerequisites: Bot. 203.

An advanced survey of restricted groups of plants involving organization and distribution problems. Messrs. Wells, Buell.

Bot. 522, 523. Cytogenetics. See F. C. 522, 523.

Bot. 531, 532, 533. Plant Physiology. 3-3-3

Prerequisite: Bot. 321, 432.

Critical study of some particular problem, involving original investigation together with a survey of pertinent literature. Mr. Anderson.

Bot. 541. Plant Ecology. 3-0-0 or 0-0-3

Prerequisites: Bot. 203, 441.

Minor investigations in vegetation-habitat problems accompanied by advanced reference reading. Mr. Wells.

Bot. 551, 552, 553. Research in Botany. 3-3-3

Prerequisite: 30 hours in 100-300 courses in Botany. Staff.

Bot. 561, 562, 563. Seminar. 1-1-1

Attendance by the student upon the weekly seminar together with the presentation of a paper in his major field of research. Mr. Wells.

CERAMIC ENGINEERING

Courses for Undergraduates

Cer. E. 202. Ceramic Materials. 0-3-0

Prerequisite: Geol. 220.

Required of sophomores in Ceramic Engineering.

The origin and occurrence of ceramic raw materials, their chemical and physical properties and system of measuring these. Ries: *Clays Occurrence, Properties, and Uses.* Mr. Stone.

Cer. E. 203. Ceramic and Mining Processes. 0-0-3

Prerequisite: Geol. 220.

Required of sophomores in Cer. E. and Geol. E.

The winning and preparation of ceramic materials; the equipment and processes used in manufacturing ceramic products. Garve: *Factory Design Properties, and Uses.* Mr. Greaves-Walker.

Courses for Advanced Undergraduates

Cer. E. 301. Drying Fundamentals and Practice. 3-0-0

Prerequisites: Phy. 203, Cer. E. 202.

Required of Juniors in Cer. E.

Theory and practice of drying ceramic products; problems. Greaves-Walker: *Drying Ceramic Products.* Mr. Greaves-Walker.

Cer. E. 302. Firing Fundamentals and Practice. 0-3-0

Prerequisites: Cer. E. 301.

Required of juniors in Cer. E.

The theory and practice of firing ceramic products. Problems. Wilson: *Ceramics; Clay Technology.* Messrs. Greaves-Walker, Stone.

Cer. E. 303. Ceramic Calculations. 0-0-3

Prerequisites: Chem. 212, Cer. E. 302.

Required of juniors in Cer. E.

Solution of chemical and physical problems of the ceramic industries. Andrews: *Ceramic Tests and Calculations.* Mr. Kriegel.

Cer. E. 305. Ceramic Products. 0-0-3

Prerequisite: Cer. E. 202.

Required of juniors in Cer. E.

Physical, chemical, and artistic requirement of ceramic products. Laboratory practice. Messrs. Greaves-Walker, Kriegel.

Courses for Graduates and Advanced Undergraduates

Cer. E. 401. Pyrometry. 1-0-0

Prerequisite: Cer. E. 302.

Required of seniors in Cer. E.

The theory and use of temperature measuring instruments in industry. Wood and Cork: *Pyrometry.* Mr. Kriegel.

Cer. E. 403. Silicates I. 3-0-0

Prerequisites: Chem. 331, Cer. E. 303 and Geol. 338.

Required of seniors in Cer. E.

The fundamental principles underlying the composition and production of whitewares, glazes, terra cotta, and abrasives. Hall and Insley: *A Compilation of Phase Rule Diagrams.* Mr. Kriegel.

Cer. E. 404. Silicates II. 0 3-0

Prerequisites: Chem. 331, Cer. E. 403 and Geol. 338.

Required of seniors in Cer. E.

The fundamental principles underlying the composition and production of refractories, cements, plasters, glasses and porcelain enamels. Hall and Insley: *A Compilation of Phase Rule Diagrams;* Andrews: *Enamels;* Scholes: *Modern Glass Practice.* Mr. Kriegel.

Cer. E. 405. Refractories. 0-0 3

Prerequisites: Cer. E. 404.

Required of seniors in Cer. E.

Refractory materials and manufacture of refractory products; use of refractory products in industrial furnaces. Norton: *Refractories.*

Mr. Greaves-Walker.

Cer. E. 411, 412, 413. Ceramic Laboratory. 3-3-3

Prerequisites: Cer. E. 303, 305, Corequisite: Cer. E. 403, 404.

Required of seniors in Cer. E.

Advanced practice in producing and determining the chemical and physical properties of ceramic materials and products; thesis.

Messrs. Greaves-Walker, Stone.

Cer. E. 411, 115. Ceramic Designing. 0-4-4

Prerequisites: M. E. 213, E. M. 322, Cer. E. 203 and 302.

Required of seniors in Cer. E.

Designing of ceramic equipment and structures. Garve: *Factory Design and Equipment.* Messrs. Greaves-Walker, Kriegel.

Courses for Graduates Only

Cer. E. 501, 502, 503. Designing of Ceramic Equipment and Plants. 3-3-3

Prerequisite: Cer. E. 415.

Advanced study and designing of ceramic machinery, dryers, kilns, and plant structures. Mr. Greaves-Walker.

Cer. E. 505, 506, 507. Advanced Refractories and Furnaces. 3-3-3

Prerequisite: Cer. E. 413, 405.

Advanced study of refractory materials and products, and their use. Mr. Greaves-Walker.

Cer. E. 509, 510, 511. Industrial Adaptability of Ceramic Materials. 3-3-3

Prerequisite: Cer. E. 413.

Laboratory investigations to determine the industrial uses to which various North Carolina ceramic minerals can be put. Messrs. Greaves-Walker, Kriegel.

Cer. E. 513, 514, 515. Ceramic Research. 3-3-3

Prerequisite: Cer. E. 404, 413.

Research problems in ceramics will be assigned to meet the desire of the student for specialization. Messrs. Greaves-Walker, Kriegel.

Cer. E. 517, 518, 519. Glass Technology. 3-3-3

Prerequisites: Chem. 331, Geol. 338, Cer. E. 405.

Advanced study of the manufacture and physical properties of glass. Mr. Greaves-Walker.

Cer. E. 521, 522, 523. Advanced Silicate Technology. 3-3-3

Prerequisite: Cer. E. 404, 413.

Advanced laboratory practice in bodies, glazes, glasses and colors. Mr. Kriegel.

CHEMICAL ENGINEERING

Courses for Undergraduates

Chem. E. 201, 202, 203. Introduction to Chemical Engineering. 1-1-2

Prerequisites: Chem. 103; Math. 102.

Required of sophomores in Chem. E.

Reactions in chemical processes, illustrative problems, and control methods; elements of unit processes and unit operations; visits to chemical plants, elementary chemical engineering calculations. Randolph: *Introduction to Chemical Engineering.* Mr. Randolph.

Chem. E. 212, 213. Chemical Nature of Engineering Materials. 0-3-3

Prerequisites: Chem. 103; Math. 103.

Required of seniors in General Engineering; elective for others.

Study of the fundamental facts about the chemical nature of engineering materials as an aid in the proper choice of materials for various engineering purposes under working conditions. *Teachers' Manual.* Mr. Randolph.

Courses for Advanced Undergraduates

Chem. E. 311, 312, 313. Chemical Engineering I. 3-3-3

Prerequisite: Chem. 213.

Required of juniors in Chem. E.

A study of chemical process principles including heat and weight balances, thermochemistry, thermophysics and their application followed by an introduction to the theory of fluid flow and heat transfer. Staff.

Chem. E. 321, 322, 323. Chemical Engineering I. 1-1-1

Prerequisite or concurrent: Chem. E. 311, 312, 313.

An introduction to standard methods of testing industrial products followed by a laboratory study of measurements of flow of fluids and heat. Staff.

Chem. E. 330. Treatment of Water and Sewage. 3-0 or 3

Prerequisite: Chem. E. 313 or C. E. 215.

Required of juniors in San. E.

Principles involved in the control of municipal water supplies and in sewage treatment; reactions involved; chemical nature of water and sewage treatment; methods for removal of the more objectionable materials in industrial waters. *Notes.* Messrs. Randolph, Doody.

Chem. E. 331. Industrial Stoichiometry. 3 or 3 or 3

Prerequisite or concurrent: Chem. E. 311.

Required of juniors in Chemical Engineering.

Industrial calculations and measurements; heat balances; material balances, fuels and combustion processes; principles of chemical engineering calculations. Hougen and Watson: *Chemical Process Principles.*

Mr. Bright.

Courses for Graduates and Advanced Undergraduates

Chem. E. s101. Pilot Plant Practice. 3 credits

Prerequisites: Chem. E. 312, Chem. E. 323, Chem. 213.

Required of Junior Chemical Engineering students and elective for others. To be given during two weeks immediately preceding the opening of the fall term in September.

Practical application of chemical machinery and chemical testing methods. Pilot plant examination of chemical processes. Cost estimation and process development through pilot plant studies. Reference: current technical journals, lectures and notes. Messrs. Doody, Randolph.

Chem. E. 411, 412, 413. Principles of Chemical Engineering. 3-3-3

Prerequisite: Chem. E. 313; concurrent with Chem. 431.

Fundamental principles of Chemical Engineering; unit operations; Chemical Engineering calculations; design and efficiency of chemical machinery and equipment. Walker, Lewis, McAdams, and Gilliland: *Principles of Chemical Engineering;* Badger and McCabe: *Elements of Chemical Engineering.* Messrs. Schoenborn, Doody.

Chem. E. 421. Water Treatment. 3 or 3 or 3

Prerequisite: Chem. E. 311.

Required of seniors in Chem. E. Elective for others.

Water supplies; equipment and practice in filter plants; water purification and softening; filters; water examination; treatment of water for domestic and industrial uses. *Notes.* Mr. Randolph.

Chem. E. 422. Chemistry of Engineering Materials. 3 or 3 or 3

Prerequisite: Chem. E. 311.

Required of seniors in Chem. E.

Technical study of engineering materials for engineering and industrial uses; effects of conditions of extraction, production, and consequent treatment to their suitability for required uses. Leighou: *Chemistry of Engineering Materials;* White: *Engineering Materials.* Mr. Bright.

Chem. E. 423. Electrochemical Engineering. 3 or 3 or 3

Prerequisite: Chem. E. 311.

Required of seniors in Chem. E.

Theory and practice of electrochemical industries; principles of electrolysis and other electrochemical processes; electric furnace; electrothermal operations, electrometallurgy. Mantell: *Industrial Electrochemistry.*

Mr. Doody.

Chem. E. 425. Gas Engineering. 3 or 3 or 3

Prerequisite: Chem. E. 311.

Elective for seniors or graduates in Chem. E.

Gas engineering; manufacture of industrial fuel gases and their distribution; apparatus and equipment; plant design; general practice in gas plants; by-products, pipe lines, service connections, gas meters.

Mr. Randolph.

Chem. E. 426. Sanitation Processes. 0-0-3

Prerequisite: Chem. E. 311, or C. E. 383.

Technical study of the methods of sanitation in industrial plants; equipment and practice in the disposal and treatment of waste materials and sewage; measures necessary in eliminating occupational disease hazards. *Notes.*

Mr. Randolph.

Chem. E. 427. Industrial Application of Physical Chemistry. 3-0-0

Prerequisite: Chem. E. 311, or Chem. 331.

Special phases of physical chemistry studied technically with reference to the practical application of these principles in the chemical industries such as industrial catalysis, evaporation principles, absorption, equilibrium, applications of phase rule, physical metallurgy, colloids. *Notes.*

Mr. Doody.

Chem. E. 428. Fuel and Combustion Engineering. 0-3-0

Prerequisite: Chem. E. 311.

Principles and mechanism of the combustion reactions; quantitative application to problems of design or use of equipment for fuel processing and utilization; solid, liquid, and gaseous fuels, with complete methods of analysis. Haslam and Russell: *Fuels and Their Combustion.* Mr. Bright.

Chem. E. 431, 432, 433. Chemical Engineering Laboratory and Design II. 2-2-2

Prerequisite or concurrent: Chem. E. 411, 412, 413.

Required of seniors in Chem. E.

A laboratory study of measurement of flow of fluids and heat; crushing and grinding, distillation; evaporation; drying; humidity; filtration and mechanical separation; absorption and extraction; calculations; design and construction of equipment for these fundamental unit operations in chemical industry. Staff.

Chem. E. 431. Chemical Engineering Design. 0-0-3

Prerequisite: Chem. E. 411, 412.

Location, layout, and complete design of the chemical plant and its process equipment; materials of construction; economic factors controlling the chemical industry, and optimum design from the standpoint of economic return, process development, pilot-plant production studies. *Notes.*

Mr. Doody.

Chem. E. 135. Industrial Oil, Fats and Waxes. 3 or 3 or 3

Prerequisite: Chem. E. 313.

Elective for juniors or seniors in Chem. E.

Petroleum engineering; manufacture, refining, and conversion of animal and vegetable oils and their by-products; lubricants. Mr. Randolph.

Chem. E. 441. Chemical Engineering Thermodynamics. 3 or 3 or 3

Prerequisite or concurrent: Chem. E. 411, 412, 413.

A study of the thermal properties of matter and energy relationships underlying chemical processes. Fundamental laws of energy as applied to Chemical Engineering problems and processes in industry. Mr. Doody.

Chem. E. 436. Cellulose and Allied Industries. 3-0-0

Prerequisite or concurrent: Chem. E. 311 or Forestry 206, 207.

Elective.

Chemical nature of Cellulose and its compounds. Methods and processes and engineering design for pulp and paper.

Chem. E. 437. Cellulose and Allied Industries. 0-3-0

Prerequisite or concurrent: Chem. E. 311 or Forestry 206, 207.

Elective.

Cellulose chemical conversion products. Methods and processes and engineering design for plastics, rayon, cellophane, explosives, paints, and varnishes.

Chem. E. 438. Corrosion: Causes and Prevention. 0-0-3

Prerequisite: Chem. E. 313.

Theories of corrosion; influences of metal composition and manufacture; chemical corrosion; prevention of corrosion; comparison of corrosive resisting materials for chemical and industrial uses. Speller: *Corrosion; Causes and Prevention.* Mr. Bright.

Chem. E. 439. Chemical Principles. 3 or 3 or 3

Prerequisite or concurrent: Chem. E. 313.

Fundamental principles in chemical manufacture and correlation of these principles in unit processes and operation. Hougen and Watson: *Industrial Chemical Calculations. Notes.* Mr. Doody.

Chem. E. 440. Metals and Alloys. 0-3-0

Prerequisite: Chem. E. 422 or M. E. 131.

Elective for seniors or graduates.

Relation of chemical composition and crystalline structure to the properties of metals and alloys; technical study of the composition and structure of metals for chemical and industrial uses. *Teacher's Manual.* Mr. Bright.

Chem. E. 471, 472, 473. Chemical Engineering Projects. 3-3-3

Prerequisite: Chem. E. 313.

An introduction to research tl rough experimental, theoretical, and literature studies of a chemical engineering problem. Staff.

Courses for Graduates Only

Chem. E. 501. Chemical Technology—Advanced. 3-3-3

Prerequisite: Chem. E. 413.

An advanced course in problems, processes, and methods of chemical manufacture and production; special study in applied inorganic, applied organic chemistry, and research in applied chemistry. Staff.

Chem. E. 502. Industrial Chemical Research. 3-3-3

Prerequisite: Chem. E. 413.

Chemical research on some industrial problem relating to North Carolina resources; practice in industrial plants, control analyses, estimate of losses, costs, data sheets, technical report. Staff.

Chem. E. 503. Chemical Engineering Research. 3-3-3

Prerequisite: Chem. E. 413.

Some plant problem studied exhaustively by making investigations at the chemical plant, and by supplementary experiments and research in the laboratory; measurements, tabulation, graphs, calculation of some actual plant problem, and Pilot plant research problems. Staff.

Chem. E. 504. Advanced Chemical Engineering. 3-3-3

Prerequisites: Chem. E. 411, Chem. E. 433.

Advanced study of process equipment, theory, and practice in operation and design for unit operations; Chemical Engineering thermodynamics; coefficients of heat transfer; heat of reactions; evaporators; stills; condensers, and heat exchangers; interrelations between heat transfer and fluid friction. McAdams: *Heat Transmission* and other texts. Staff.

CHEMISTRY

Courses for Undergraduates

Chem. 101, 102, 103. General Inorganic Chemistry. 4-4-4

Recitations and laboratory work; theories of laws, history, occurrence, preparation, properties, and uses of the more important elements and their compounds; formulae, valence, equations and calculations. Staff.

Chem. 201, 202. General Inorganic Chemistry. 5-5-0

Subject matter same as 101, 102, 103. Staff.

Chem. 203. Introduction to Organic Chemistry. 0-0-5

Prerequisites: Chem. 201, 202.

Hydrocarbons, alcohols, aldehydes, ketones, acids, ethers, esters, amino-acids, and bezene derivates; carbohydrates, fats, proteins, and related compounds. Mr. Reid.

Chem. 211. Qualitative Analysis. 4-0-0

Prerequisites: Chem. 101, 102, 103 or 201, 202.

Identification and separation of more common ions and analysis of mixture of salts of commercial products.

Messrs. Wilson, Reid, Loeppert.

Chem. 212. Quantitative Analysis. 0-4-0

Prerequisite: Chem. 211.

Volumetric Analysis: Alkalinity, acidimetry, oxidation, and iodometric titrations. Messrs. Wilson, Reid, Loeppert.

Chem. 213. Quantitative Analysis. 0-0-4

Prerequisite: Chem. 211.

Required of sophomores in Chemical Engineering.

A continuation of Chem. 212. Gravimetric methods. Substances of more difficult nature are analyzed, as minerals, steel, alloys, limestone, Paris green, etc. Messrs. Wilson, Reid, Loeppert.

Chem. 223. Quantitative Analysis. 0-0-4

A continuation of Chem. 212. Substances of more difficult nature are analyzed, as sulphites, sulphides, bleaching powder, Turkey-red oil, soaps.

Messrs. Wilson, Reid, Loeppert.

Chem. 233. Quantitative Analysis. 0-0-4

Continuation of Course 212, along with gravimetric methods used in the analysis of magnesium, phosphate rock, fertilizer and insecticide.

Messrs. Wilson, Reid, Loeppert.

Chem. 242. Chemical Calculations. 0 3 or 3

Prerequisites: Chem. 101, 102, 103.

Chemical problems, especially in analytical work; lectures on principles, theories, laws, upon which the problems are based; assigned problems for discussion. Mr. White.

Chem. 331. Physical Chemistry. 5-0-0

Prerequisites: Chem. 101, 102, 103.

Fundamental chemical principles from a physiochemical viewpoint; special attention to silicate analysis. colloids, and phase rule. Mr. Sutton.

Courses for Graduates and Advanced Undergraduates

Chem. 401. Historical Chemistry. 2-0-0

Prerequisites: Chem. 101, 102, 103.

Development of Chemistry and the history of men instrumental in the progress of Chemistry. Mr. Williams.

Chem. 402, 403. Theoretical Chemistry. 0-2-2

Prerequisites: Chem. 101, 102, 103.

Atoms and molecules: chemical reactions and conditions influencing them; electronic conception of valence, radio activity. Mr. Jordan.

Chem. 411. Advanced Qualitative Analysis. 4-0-0

Prerequisite: Chem. 211 or its equivalent.

Lectures and laboratory work dealing with the analysis of alloys and complex mixture. Mr. Wilson.

Chem. 412. Advanced Quantitative Methods. 0-3 or 3

Prerequisite: Chem. 213 or its equivalent.

Methods and apparatus in advanced quantitative analysis; heat of combustion, colorimetry, complete analysis of ores, special steels, paint pigments and alloys. Mr. Wilson.

Chem. 421, 422, 423. Organic Chemistry. 4-4-4

Prerequisites: Chem. 101, 102, 103.

Aliphatic and aromatic compounds; practical applications; methods of preparation and purification of compounds, and their structures.

Mr. Williams.

Chem. 424. The Chemistry of Hydrocarbons and Their Derivatives. 0-3 or 3

Prerequisites: Chem. 421, 422, 423.

New developments in solvents, resins, detergents, synthetic rubber, motor fuels. Mr. Reid.

Chem. 431, 432, 433. Physical Chemistry. 4-4-4 or 4-4-0

Prerequisite: Chem. 213.

Principles of Physical Chemistry; laws and theories, application to various branches of chemistry and to industrial processes. Mr. Sutton.

Chem. 441. Food Products and Adulterants. 3 or 3-0

Prerequisites: Chem. 221 or 421, 422, 423.

Food principles; cereals, starches, sugars, fats; milk and milk products; the packing house; food preservation; beverages, spices and condiments; food legislation, food advertising. Mr. Satterfield.

Chem. 442. Chemistry of Colloids. 0-3-0

Prerequisites: Chem. 221 or 421, 422, 423.

Colloidal behavior, osmotic pressures, dialysis. sols and gels. membranes and membrane equilibria, proteins, and Donnan equilibrium. Mr. White.

Chem. 451, 452. Physiological Chemistry. 3-3-0

Prerequisites: Chem. 221 or 421, 422, 423.

Essential chemical facts pertaining to life processes; digestion, absorption, metabolism. secretions, and excretions; lectures, laboratory.

Mr. Satterfield.

Chem. 462. Chemistry of Vitamins. 3 or 3 or 3

Prerequisites: Chem. 221 or 421, 422, 423.

Application of vitamin hypothesis to human nutrition; history, nomenclature, properties, distribution, effects of deficiencies, vitamin values.

Mr. Satterfield.

Chem. 472. Blood Analysis. 0-3 or 3

Prerequisites: Chem. 212 and 421, 422, 423.

Hemoglobin, sugar, urea, uric acid, cholesterol, creatine. creatinine, nonprotein, nitrogen, amino-acid nitrogen, calcium. Folin-Wu system is emphasized; lectures and laboratory. Mr. Satterfield.

Chem. 481. Agricultural Chemistry. 3-0-0

Prerequisites: Chem. 101, 102, 103, and 221 or 421, 422, 423.

Feeding the plant; insecticides and fungicides; transforming the plant into human food and animal food; composition of plants; relation between composition and uses. Mr. Satterfield.

Chem. 482, 483. Food and Nutrition. 0-3-3

Prerequisites: Chem. 221 or 421, 422, 423.

Carbohydrates, fats, proteins, amino acids, minerals, fiber, vitamins, enzymes; nutritive value of food materials; digestion, food idiosyncrasy; acidosis and alkalosis. Mr. Satterfield.

Chem. 491, 492, 493. Advanced Physical Chemistry. 3-3-3

Prerequisites: Chem. 431, 432, 433.

An advanced problem course designed for chemical engineers.

Mr. Sutton.

Courses for Graduates Only

Chem. 501, 502, 503. Organic Chemistry, Advanced. 3-3-3

Prerequisites: Chem. 421, 422, 423.

Principles of organic chemistry; current literature; laboratory work and preparation in quantity. Mr. Williams.

Chem. 511. Organic Qualitative Analysis. 3-0-0

Prerequisites: Chem. 421, 422, 423.

Detection of elements and radicals, group characteristics. Mr. Williams.

Chem. 512. Organic Quantitative Analysis. 0-3-0

Prerequisites: Chem. 212, 421, 422, 423.

Analysis of organic compounds for carbon, hydrogen, nitrogen, the halogens, sulfur. Mr. Williams.

Chem. 513. Micro-Analysis. 0-0-3

Prerequisites: Chem. 421, 422, 423.

Tests for compounds, and impurities in quantities too small to be detected by ordinary methods. Mr. Williams.

Chem. 523. Micro-Chemical Analysis. 3 or 3 or 3

Prerequisite: Chem. 213.

Inorganic micro qualitative analysis; fibers, starches, etc. Mr. Wilson.

Chem. 531, 532, 533. Chemical Research. 3-3-3

Prerequisite: 54 term credits in Chemistry. Open to all graduates.

Special problems that will furnish material for a thesis. Staff.

Chem. 541, 542, 543. Seminar. 1-1-1

Required of graduate students specializing in Chemistry.

Preparation and presentation of abstracts of current publications in the field of Chemistry.

Chem. 552, 553. Biochemistry. 0-3-3

Prerequisites: Chem. 421, 422, 423, 482, 483.

Special topics in Biochemistry. Mr. Satterfield.

CIVIL ENGINEERING

Courses for Undergraduates

C. E. 101, 102, 103. Drawing. 1-1-1

Required for freshmen in Forestry and Landscape Architecture.

Plain lettering, common symbols, platting of areas from compass-survey notes furnished, filling in contours from notes furnished, tracing, calculation of areas by planimeter; finished maps. Sloane and Montz: *Elementary Topographic Drawing.* Mr. Lambe.

C. E. s200. Surveying.* 3 credits

Prerequisite: Math. 102.

Required in the summer immediately following the freshman year in Aero. E., Agr. Eng., A. E., Cer. E., E. E., Gen. E., and M. E.

The use, care and adjustment of surveying instruments; elementary land surveying, traverse lines, leveling, topographical surveying and stadia measurements. Tracy: *Plane Surveying.* Staff.

C. E. 221, 222, 223. Theoretical Surveying. 3-3-3

Prerequisite: Math. 102.

Required of all sophomores in Civil Engineering. C. E. 221, 222 required in Forestry (0-3-3), in Geol. Eng., Landscape Architecture, and Wildlife Conservation and Management (3-3-0).

Use, care and adjustment of surveying instruments, land surveying, topographical surveying, leveling and theory of stadia measures, plane table, etc.

Third term, railroad surveys, including simple, compound, reverse, and spiral curves, turnouts, etc. Davis and Foote: *Surveying.* Rubey: *Route Surveys.* Mr. Lambe.

C. E. 224. Topographic Drawing. 0-0-1

Prerequisites: C. E. 101, 102, 103.

Required of sophomores in Forestry.

Plotting by coördinates; contours and general topography. *Notes.* Mr. Lambe.

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* Note. Two sessions: (a) Full time, 3 weeks immediately following close of College third term; (b half time, 6 weeks concurrently with College Summer School term in order to allow students to schedule summer school work.

C. E. 225, 227. Field Surveying. 1-0-1

To be taken concurrently with C. E. 221, 223.

Required of all sophomores in Civil Engineering and Landscape Architecture. C. E. 225 required in Geol. E. and Wildlife Conservation and Management (1-0-0), and in Forestry (0-1-0).

Surveying field practice, topographical surveys, railroad and highway curves. Profiles, cross sections. Mr. Lambe.

C. E. 226. Mapping. 0-1-0

Prerequisites: M. E. 105, 106. To be taken concurrently with C. E. 222.

Required of all sophomores in Civil Engineering, and juniors in Geological Engineering.

Practice in conventional signs and lettering. A complete topographical map and tracing is to be made involving the use of three methods of contour location. Field notes to be furnished. Mr. Lambe.

C. E. 281. Mill and Mill Village Sanitation. 3-0-0

Prerequisite: Chem. 103.

Mill and mill village water supply and sewage disposal, mosquito and fly control, sanitary milk supply, industrial hygiene. Course for textile students. Ehlers and Steele: *Municipal and Rural Sanitation.* Mr. Stiemke.

Courses for Advanced Undergraduates

C. E. s300. Surveying and Mapping. 3 credits

Prerequisites: C. E. 221, 222; C. E. 224.

Required in summer immediately following sophomore year in Forestry.

Boundary; topographical surveys, and calculations of sections of College Experimental Forestry Lands. Finished section maps. Davis and Foote: *Surveying.* Staff.

C. E. s310. Advanced Surveying. 3 credits

Prerequisites: C. E. 221, 222, 223; C. E. 226.

Required in the summer immediately following the sophomore year in Civil Engineering and Landscape Architecture.

Plane table practice, special problems in surveying practice; triangulation, railroad and highway spirals; hydrographic surveying with sextant; plane table problems; the use and rating of current meters; measurement of stream flow; drainage problems.

Laying out proposed construction work. Topographic details and special problems. Davis and Foote: *Surveying.* Staff.

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* Not. Two sessions: a) Full time, 3 weeks immediately following close of College third term; b) half time, 6 weeks concurrently with College Summer School term in order to allow students to schedule summer school work.

C. E. 321. Materials of Construction. 3 or 3 or 3

Prerequisite: Junior standing.

Required of all juniors in Civil Engineering, M. E., Aero. E. and A. E., and of seniors in I. E.

The study of materials used in buildings and other engineering structures, with particular reference to their methods of manufacture and physical properties. Two periods lecture and recitation; one period laboratory. Tucker: *Laboratory Manual in the Testing of Materials.* Mills: *Materials of Construction.* Mr. Ray.

C. E. 322, 323. Materials Testing Laboratory. 0-1-1

Prerequisite: C. E. 321.

Required of seniors in General Civil, Sanitary, and Transportation Engineering, and one term only for juniors in Architectural and Ceramic Engineering.

The testing of materials used in construction. Tucker: *Manual in the Testing of Materials.* Mr. Ray.

C. E. 343. Hydraulic Structures. 0-0-3

Prerequisite: E. M. 330.

Required of juniors in General Civil, Sanitary, and Transportation Engineering.

Application of the fundamentals of Fluid Mechanics to problems in Hydraulic Engineering; flow in pipes, in canals and natural water courses; design of locks and dams for navigation; flood control and power development; theory of design, installation and operation of pumps and hydraulic motors. Mr. Stiemke.

C. E. 362, 363. Construction Engineering 1. 0-3-3

Prerequisite: E. M. 311.

Required of juniors in Construction and Building Materials Engineering.

Building codes, zoning ordinances; quantity surveys; timber properties, grading, identification, use, and preservation; frame construction; timber design. Huntington: *Building Construction; Notes and Trade Literature.* Mr. Bramer.

C. E. 365, 366. Sanitary and Mechanical Equipment of Buildings. 3 3-0

Prerequisites: E. M. 311, 312.

First term required of juniors in Construction and Building Materials Engineering. First and second terms required of juniors in Arch. E.

A study of water supply, soil, waste, and vent-pipe systems, principles and practice of heating and ventilating and a discussion of various other mechanical equipment of a building, such as elevators, dust collecting systems, etc. Gay and Fawcett: *Mechanical and Electrical Equipment of Buildings.* Mr. Stiemke.

C. E. 367. Specifications. 0-0-3

Prerequisite: C. E. 321.

Required of juniors in Construction and Building Materials Engineering.

Preparation of specifications and legal documents for building operations. Kirby: *Elements of Specification Writing.* Mr. Bramer.

C. E. 372, 373. Transportation Engineering I. 0-3-3

Prerequisite: C. E. 221, 222, 223.

Required of juniors in General Civil, Sanitary, and Transportation Engineering.

General design, construction, and maintenance of highways, railroads, and airports. Mr. Babcock.

C. E. 383. Sanitary Engineering. 0-0-3

Prerequisite: Chem. 103.

Required of juniors in San. E.

Water supply and sewage disposal; ventilation; mosquito and fly control; refuse disposal; public health laws and organization. Ehlers and Steele: *Municipal and Rural Sanitation.* Mr. Stiemke.

Courses for Graduates and Advanced Undergraduates

C. E. 421, 422. Reinforced Concrete. 3-3-0

Prerequisites: E. M. 313, 322.

Required of all seniors in Civil Engineering and Architectural Engineering.

Derivation of formulas used in reinforced concrete design, use of diagrams and curves. Illustrative problems in design. Turneaure and Maurer: *Principles of Reinforced Concrete Construction.* Messrs. Mann, Bramer.

C. E. 423, 424, 425. Graphic Statics. 1-1-1

Prerequisite: E. M. 313.

First term required of all seniors in Civil Engineering. First, second, and third terms required of all seniors in Architectural Engineering.

Principles involved in the solution of problems by graphical methods. Moments, shears. Resultant pressure on retaining walls. Stress diagrams. Fairman and Cutshall: *Graphic Statics* and assigned references.

Mr. Mann.

C. E. 426, 427. Structural Design. 0-3-3

Prerequisites: E. M. 322, C. E. 431.

Required of all seniors in Civil Engineering and Architectural Engineering.

Design of beams, columns, tension members, plate girders, trusses and structures. Bishop: *Structural Design.* Mr. Mann.

C. E. 431, 432. Theory of Structures. 3-3-0 or 0-3-3

Prerequisite: E. M. 322.

Required of all seniors in Civil Engineering and General Engineering.

Roof trusses; bridge trusses; three hinged arch, lateral bracing and portals; rigid frame, wind stresses in tall buildings, indeterminate trusses, secondary stresses. Spofford: *Theory of Structures.* Mr. Bramer.

C. E. 431a, 432a. Theory of Structures (abridged). 3-3-0

Prerequisite: E. M. 322.

Required in Architectural Engineering, C. E. 431, 432, to be required if less than five students enroll for C. E. 431a, 432a.

Stress analyses and designs of wooden and steel roof trusses; wood, steel, and reinforced concrete floor systems. Theory and design of columns, footings, retaining walls. Theories for wind stress design in tall buildings. Shedd and Vawter: *Theory of Simple Structures.* Mr. Bramer.

C. E. 435. Soil Mechanics. 0-0 3

Prerequisites: E. M. 321, 322.

Required of seniors in General, Civil, Sanitary, and Transportation Engineering.

The classification of soils, their physical characteristics and tests; the suitability of certain types of soils for foundations; methods of stabilizing soils; general principles involved in selection of soils for foundations.

Messrs. Babcock, Bramer.

C. E. 449. Hydrology. 0-0-3

Prerequisite: E. M. 330.

Elective for seniors in Engineering.

The study of the science of the occurrence, distribution and use of water upon the earth with particular reference to North Carolina, including precipitation, evaporation, transpiration, seepage, runoff and stream flow. Myer: *Elements of Hydrology.* Mr. Stiemke.

C. E. 453. Applied Astronomy. 4-0-0

Prerequisite: C. E. s310.

Required of seniors in General Civil and Transportation Engineering.

The application of astronomy in determining latitude, azimuth, longitude and time; astronomical observations with transit and sextant; reduction of observations. One credit given for observations. Hosmer: *Applied Astronomy.* Messrs. Babcock, Bramer.

C. E. 455. Aerial Surveying. 0-0-3

Prerequisite: C. E. s310.

Required of seniors in General Civil.

A study of various methods of constructing topographical maps from horizontal, vertical, and oblique photographs, and different methods of control of Aerial Surveys. The work covered is confined to the methods of producing maps from photographs and does not take up the technical work of photography or piloting. Bagley: *Aerophotography and Aerosurveying.* Mr. Babcock.

C. E. 461, 462, 463. Construction Engineering II. 3-3-3

Prerequisite: C. E. 362, 363.

Required of seniors in Construction and Building Materials Engineering.

Estimating frame, masonry, and reinforced concrete buildings; design and construction of concrete formwork; study of reinforced concrete and steel-framed structures; cost analysis, organization, and management of construction plants; prefabricated construction. Huntington: *Building Construction; Notes and Trade Literature.* Mr. Bramer.

C. E. 471, 472. Transportation Engineering II. 3-3-0

Prerequisite: C. E. 372, 373.

Required of seniors in General Civil and Transportation Engineering.

Transportation systems their development, operation, control, and use. Mr. Babcock.

C. E. 473. Transportation Design. 2-0-0

Prerequisite: C. E. 372, 373.

Required of seniors in Transportation Engineering.

Design of highways, highway intersections, airports, and allied transportation facilities. Mr. Babcock.

C. E. 474, 475. Highway Engineering. 0-3-3

Prerequisite: C. E. 372, 373.

Required of seniors in Transportation Engineering.

Highway administration and finance; economic location of highways; the motor vehicle and its operation; traffic regulation and control. Mr. Babcock.

C. E. 481, 482. Sanitary Engineering Laboratory. 1-1-0

Concurrent with C. E. 485, 486.

Required of seniors in General Civil and Sanitary Engineering.

Laboratory analysis of sewage and sludge. Inspection trips to sewage disposal plants. Laboratory analysis for determining quality and safety of water. Inspection of waterworks in various cities. *Notes.* Mr. Stiemke.

C. E. 483. Financing of Sanitary Utilities. 0-0-3

Prerequisites: Math. 303, C. E. 383.

Required of seniors in Sanitary Engineering.

Rates and service charges, collections, operating cost control, bond issues, and budgets. Mr. Stiemke.

C. E. 485. Waterworks. 3-0-0

Prerequisite: E. M. 330.

Required of seniors in General Civil and Sanitary Engineering.

Municipal waterworks; quantity; sources of supply; collection; purification; distribution. Babbitt and Doland: *Water Supply Engineering.* Mr. Stiemke.

C. E. 486. Sewerage. 0-3-0

Prerequisite: E. M. 330.

Required of seniors in General Civil and Sanitary Engineering.

Separate and combined sewer system; principles of design and construction; sewer appurtenances; disposal plants. Metcalf and Eddy: *Sewerage and Sewage Disposal.* Mr. Stiemke.

C. E. 488. Water Purification. 0-3-0

Prerequisites: E. M. 330, C. E. 485.

Required of seniors in Sanitary Engineering.

Design and operation of water purification plants; sedimentation, coagulation, filtration, and sterilization of water. Recent treatment processes. Inspection trips to various plants. Babbitt and Doland: *Water Supply Engineering.* Mr. Stiemke.

C. E. 489. Sewage Disposal. 0-0-3

Prerequisite: C. E. 486.

Required of seniors in Sanitary Engineering.

Design and operation of sewage disposal plants; treatment processes and devices; efficiencies and costs of plants; public health, legal and economic problems involved. Inspection trips to disposal plants. Metcalf and Eddy: *Sewerage and Sewage Disposal.* Mr. Stiemke.

Courses for Graduates Only

C. E. 525, 526, 527. Advanced Structural Design. 3-3-3

Prerequisites: C. E. 426, 427.

Analysis and design of fixed, hinged and multispan arches. Complete designs of steel and reinforced concrete structures. MacCullough and Thayer: *Elastic Arch Bridges.* Mr. Bramer.

C. E. 531, 532, 533. Advanced Structural Theory. 3-3-3

Prerequisites: C. E. 431, 432.

Stress analysis in continuous frames and arches; secondary stresses; wind stresses and space frame-work. Analyses by use of Beggs' Deformeter. Sutherland and Bowman: *Advanced Structural Theory.*

Mr. Bramer.

C. E. 561, 562, 563. Construction Engineering Research. 3-3-3

Prerequisites: C. E. 461, 462, 463.

Study of recent advancement and developments in Construction. Original research. Mr. Bramer.

C. E. 573, 574, 575. Transportation Engineering Research. 3-3-3

Prerequisite: Eighteen term credits in Transportation Engineering.

A study of the recent developments and advancements in the fields of railway, highway, and air transportation. At least one term is devoted to original research. Mr. Babcock.

C. E. 577, 578, 579. Advanced Transportation Engineering. 3-3-3

Prerequisite: Eighteen term credits in Transportation Engineering.

A continuation of the undergraduate subjects in Transportation Engineering with particular emphasis on the operation and regulation of the transportation systems of the United States. Mr. Babcock.

C. E. 581, 582, 583. Sanitary Engineering Research. 3-3-3

Prerequisites: C. E. 383, 488, 489.

In the first term, a study of recent developments and research in Sanitary Engineering is made from current literature. In the second term, a research problem is selected and data on the problem are compiled from literature. In the third term, individual research is done. Mr. Stiemke.

C. E. 585, 586. Advanced Sewage Disposal. 3-3-0

C. E. 588, 589. Advanced Water Purification. 0-3-3

DAIRY MANUFACTURING (ANIMAL INDUSTRY)

Courses for Undergraduates

D. M. 301. Dairy Technology 5-0-0

Prerequisite: Chem. 201, 202, 203.

Laboratory tests used for the control of milk and dairy products. Staff.

D. M. 302. Dairy Products II (Ice Cream). 0-3-0

Selection and preparation of materials, processing, and merchandising of ice cream and other frozen desserts. Staff.

D. M. 303. Dairy Products III (Butter and Cheese). 0-0-4

Principles and practices of creamery buttermaking. Principles and practices in making various soft and hard cheese. Mr. Roberts.

D. M. 313. Dairy Engineering. 0-0-3

Location, construction and arrangement of dairy plants and selection, installation and operation of dairy plant equipment. Mr. Clevenger.

D. M. 323. Judging Dairy Products. 0-0-1

Milk and dairy products judging according to official standards and commercial grades. Staff.

D. M. s301. Dairy Products Laboratory I (Market Milk). 3 credits

Laboratory practice in the processing of market milk and related products. Staff.

D. M. s311. Dairy Products Laboratory II (Ice Cream). 2 credits

Laboratory practice in the processing of ice cream and other frozen desserts. Staff.

D. M. s321. Dairy Products Laboratory III (Butter and Cheese.) 3 credits

Laboratory practice in the processing of butter and cheese. Staff.

Courses for Advanced Undergraduates and Graduates

D. M. 401. Dairy Bacteriology I. 4-0-0

Prerequisite: Bot. 312.

Importance of microorganisms in milk and dairy products. Determination of numbers and types of bacteria in dairy products and their relationship to quality. Staff.

D. M. 403. Dairy Bacteriology II. 0-0-3

Prerequisite: D. M. 401.

Investigation of techniques for identifying and culturing microorganisms which are of vital interest in dairy products. Staff.

D. M. 402. Dairy Chemistry. 0-3-0

Prerequisite: D. M. 411.

Study of the chemical and physical properties of milk and its constituents. Staff.

D. M. 411. Dairy Products I (Market Milk). 3-0-0

Market milk and related products from the standpoint of production, processing, distribution and public health inspection. Mr. Roberts.

D. M. 412. Advanced Dairy Plant Management. 0-3-0

Business and factory management practices as used in the dairy plant.
Mr. Clevenger.

Courses for Graduates Only

D. M. 501, 502, 503. Topical Problems in Dairy Manufacturing. 3-3-3
Mr. Roberts.

D. M. 512. Advanced Dairy Bacteriology. 0-4 0

D. M. 513. Advanced Dairy Chemistry. 0 0-4

D. M. 521, 522, 523. Research in Dairy Manufacturing 1-5, 1-5, 1 5
Mr. Roberts.

ECONOMICS

Courses

Econ. 201, 202, 203. General Economics. 3-3-3

Required of sophomores in E. E., For., juniors in Arch. E., Cer. C., C. E., Gen. E., Ind. Arts Educ., Tex., seniors in Aero E., Arch., Chem. E., Geol. E., M. E. Econ. 201, 2 required of juniors in Agr., and Teachers of Agr.

A study of economic institutions and general principles governing production and distribution of wealth under the existing economic organization.
Messrs. Brown, Green, Leager, Moen, Shulenberger, and Wood.

Econ. 212. Accounting for Engineers. 3 or 3-0

Required of juniors in Transportation Option of C. E., and seniors in L. A., and E. E.

A survey of accounting principles; financial statements, their construction, use, and interpretation. Mr. Shulenberger.

Econ. 301, 302, 303. Principles of Accounting. 3-3-3

Required of juniors in Ag. Econ., Ind. E., Tex. Mgt., and seniors in Gen. E. Econ. 301, 302 required of juniors in Const. and Bldg. Materials Option of C. E., and in Yarn Mfg.

Fundamental principles of theory and practice; interpretation of the structure, form, and use of business statements. Mr. Shulenberger.

Econ. 305. Business Organization. 0-3-0

Prerequisites: Econ. 201, 202, 203 or 205.

Required of seniors in Transportation Option of C. E.

Forms of business enterprises; single enterprises, partnerships, joint-stock companies and corporations; principles of business management.

Mr. Green.

Econ. 307. Business Law. 3 or 3 or 3

Prerequisite: Junior standing.

Required of juniors in Cer. E. Transportation. Option of C. E., M. E., Ind. Arts Educ., seniors in Aero. Engr., Animal Production, Architectural Engr., Chemical Engr., junior and senior consolidated curriculum in Civil Engr., General Engr., Geological Engr., Industrial Engr., and fifth year in Architecture.

Sources of law; fields of law; contracts, agency sales; negotiable documents; the law as it controls business transactions.

Messrs. Green and McMillan.

Econ. 308. Advanced Business Law. 0-0-3

Prerequisite: Econ. 307.

A continuation of Economics 307, including bailments, suretyship, real property; corporations; recent developments in State and Federal Law.

Mr. Green.

Econ. 311, 312, 313. Marketing Methods and Sales Management. 3-3-3

Prerequisites: Econ. 201, 202, 203 or 205.

Required of seniors in Tex. Mgt.; Econ. 311, 312 required of juniors in Farm Mkt., and Farm Fin.; Econ. 311, 312 or Econ. 320 and Econ. 331 required of seniors in Const. and Bldg. Materials Option of C. E.

Marketing functions, agencies, systems; retailing; marketing analysis; problems in marketing; elements of sales management. Mr. Moen.

Econ. 315. Advertising. 0-0-3

Prerequisites: Econ. 201, 202, 203.

Principles of advertising. Mr. Moen.

Econ. 318. Money and Credit. 3-0-0

Prerequisites: Econ. 201, 202, 203 or 205.

The functions, history, and development of money and credit; contemporary policies and relation to prices; interrelations of money and credit in banks and financial institutions. Mr. Moen.

Econ. 319. Modern Banking. 0-3-0

Prerequisites: Econ. 201, 202, 203 or 205.

Origin and development of banking in the United States; functions and operations of the modern bank; banking laws; Federal Reserve System. Mr. Moen.

Econ. 320. Corporation Finance. 0-0-3

Prerequisites: Econ. 201, 202, 203.

Alternate requirement in Const. and Bldg. Materials Option of C. E.

Raising and spending of funds and standards of control. Mr. Moen.

Econ. 325, 326. Industrial Management. 3-3-0

Prerequisites: Econ. 201, 202, 203.

Required of seniors in Aero. E. and Textiles, elective for all others.

Principles and techniques of modern scientific management; relationship of finance, marketing, industrial relations, accounting, and statistics to production; techniques regarding specific problems; analysis of economic, political, and social influences on production. Mr. Wood.

Econ. 331. Labor Problems. 3-0-0

Prerequisites: Econ. 201, 202, 203 or 205.

Required of juniors in Ind. Educ., and seniors in Ind. Arts Educ. Alternate requirement in Const. and Bldg. Materials Option of C. E.

An economic approach to labor problems, including such topics as insecurity, wages, hours, working conditions, substandard workers, legislation aimed at correcting existing evils. Mr. Wood.

Econ. 332. Industrial Relations. 0-3-0

Prerequisites: Econ. 201, 202, 203.

History, organization, activities, and policies of organized labor; legal aspects, recent developments. Mr. Wood.

Econ. 333. Personnel Management. 3 or 3 or 3

Prerequisites: Econ. 201, 202, 203 or 205.

Required of seniors in Const. and Bldg. Materials Option of C. E., and Tex.

Emphasis on the human problems of industry. A review of the scientific techniques and results of research regarding the problems of employment; training, promotion, transfer; health and safety; service and welfare; and joint relations. Mr. Wood.

Econ. 335. Time Study. 0-3-0

Prerequisites: Econ. 201, 202, 203.

Analysis of shop operation into elements, and the determination of the time for each element; emphasis on factors affecting job specification, and wage-rate setting. Mr. Wood.

Econ. 310. Transportation Problems. 0-0-3

Prerequisites: Econ. 201, 202, 203.

The economic aspects of transportation facilities provided by the railroads, highways, and air- and water transportation agencies; principles and problems of rate making, operation, management, valuation, coördination and government regulation. Mr. . . . . .

Econ. 401. Advanced Accounting. 3-0-0

Prerequisites: Econ. 301, 302, 303.

Problems of asset valuation, such as depreciation, replacements, amortization, etc., found in all types of business organizations. Mr. Shulenberger.

Econ. 101, 405. Principles of Cost Accounting. 0-3-3

Prerequisites: Econ. 301, 302, 303.

Required of seniors in Textile Management.

Cost finding, material costs, labor costs, overhead costs, etc.

Mr. Shulenberger.

Econ. 408. Survey of Statistical Methods. 3 or 3-0

Prerequisites: Econ. 201, 202, 203 or 205.

Required of juniors in Agricultural Economics, and of seniors in Rural Sociology.

Elective for all others.

Methods of describing quantitative data; collection and methods of analysis of statistical materials; charts and graphs for presenting numerical facts. Mr. Leager.

Econ. 409. Statistical Technique. 0-3-0

Prerequisite: Econ. 408.

Required of juniors in Agricultural Economics.

The problem of estimation, correlation: simple linear and nonlinear forms; normal curve and probable error; methods of sampling.

Mr. Leager.

Econ. 414. International Economic Relations. 0-0-3

Prerequisites: Econ. 201, 202, 203 or 205.

Backgrounds and some newer developments in international economics, with special emphasis on the position of the United States in world trade.

Mr. Green.

Econ. 415. Investment Problems and Policies. 0-3-0

Prerequisites: Econ. 201, 202, 203 or 205.

Different types of investments and methods of judging them. Managing personal finances. Mr. Moen.

Econ. 416. Public Finance and Taxation. 0-3-0

Prerequisites: Econ. 201, 202, 203.

Classes of income and expenditure; incidence of different classes of taxes.

Mr. Moen.

Econ. 418. Principles of Insurance. 0-0-3

Prerequisites: Econ. 201. 202, 203.

Elective.

Risk as an element of all agricultural and industrial activity; discussion of such risks as can be covered by insurance with the appropriate form of insurance, e.g., employer's liability, workmen's compensation, fire, life, and other forms. Mr. Shulenberger.

Econ. 501. Advanced Economic Theory. 3-3-0

Prerequisite: Eighteen (18) term credits in Economics.

Recent and current economic theory; principal schools of economists; theory of prices under the system of free enterprise. Staff.

Econ. 502. History of Economic Doctrines. 0-0-3

Prerequisite: Econ. 501.

History of economic doctrines from the Mercantilists to the period of Ricardo. Staff.

EDUCATION: TEACHER EDUCATION

AGRICULTURAL EDUCATION

Ed. 308. Visual Aids. 0-0-3

Prerequisite: Junior standing.

Required of students in Education.

Methods and technique of visual instruction; lettering; statistical illustrating; chart, graph, and poster-making; photography; projector operation, care, and use. Designed for teachers and extension workers.

Mr. Armstrong.

Courses for Graduates and Advanced Undergraduates

Ed. 406. Principles of Teaching. 3-0-0

Prerequisites: Ed. 303 or 304.

Required of seniors in Agr. Ed.

Principles of teaching with applications to vocational agriculture; personal requisites of a teacher; responsibilities; objectives of teaching; school control; motivation; directing study. Mr. Cook.

Ed. 407. Methods of Teaching Agriculture. 5-0-0

Prerequisites: Ed. 303, 308, or equivalents, and at least 12 credits in Agriculture.

Required of students in Agricultural Education.

Organization of subject matter; teaching techniques; supervised practice; textbooks and reference material; Future Farmers of America; organization of departments of vocational agriculture; agricultural guidance.

Mr. Cook.

Ed. 408. Observation and Directed Teaching. 0-5-0

Prerequisites: Ed. 406, 407, and at least 12 credits in Agriculture.

Required of seniors in Agr. Ed.

Observation and teaching vocational agriculture under supervision; participation in the varied activities of the teacher of vocational agriculture.

Staff in Agricultural Education.

Ed. 411. Evening Classes and Directed Teaching. 0-5-0

Prerequisites: Ed. 406, 407, and at least 12 credits in Agriculture.

Required of seniors in Agr. Ed.

Community activities of teachers of vocational agriculture; organization, method, and directed teaching of evening and part-time classes. Mr. Cook.

Ed. 412. Materials and Methods in Teaching Agriculture. 0-5-0

Prerequisites: Ed. 406, 407, and 12 credits in Agriculture.

Required of seniors in Agr. Ed.

Use of illustrative and actual materials in teaching vocational agriculture; collection and preservation of specimens; chart making; practice in use of materials in directed teaching. Mr. Armstrong.

Ed. 426. Secondary Education in Agriculture. 0-0-3

Prerequisites: Ed. 303 or 304, and 6 other credits in Education.

Agricultural education in the United States; school organization; agricultural occupations. Mr. Cook.

Ed. 460. Special Problems in Teaching Agriculture. 3 or 3 or 3

Prerequisites: Ed. 406, 407, or equivalent.

Planning programs of work and courses of study; collecting and preparing materials for teaching; making teaching plans. Mr. Cook and Staff.

Ed. 461 (a-b). Trends in Teaching Vocational Agriculture. 3 or 6 credits

Prerequisites: 18 credits in Education, including 5 in Agricultural Education.

Procedures in teaching vocational agriculture; out-of-school farm youth; evening-class instruction and the F. F. A.

Staff in Agricultural Education.

Ed. 462 (a-b). Course of Study Problems. 3 or 6 credits

Prerequisites: 18 credits in Education, including 5 in Agricultural Education.

Selection and organization of subject matter in vocational agriculture; supervised practice. Staff in Agricultural Education.

Ed. 463 (a-b). Guidance and Individual Instruction. 3 or 6 credits

Prerequisites: 18 credits in Education, including 5 in Agricultural Education.

Individualized instruction applied to vocational agriculture; agricultural occupations, guidance, and counseling with special reference to pupils in vocational agriculture. Staff in Agricultural Education.

Courses for Graduates Only

Ed. 516. Problems in Agricultural Teaching. 3 or 3 or 3

Prerequisites: Ed. 407, and at least 12 other credits in Education and Agriculture. Experience in Agricultural Teaching will be accepted in lieu of Ed. 407.

Investigations, reports, and a critical evaluation of present practices; course adapted to individual interests and needs.

Staff in Agricultural Education.

Ed. 517. Principles of Agricultural Education. 3 or 3 or 3

Prerequisite: Eighteen credits in Education and Agriculture. Permission to register.

Principles and practices in agricultural education in the light of educational research and of changing rural conditions. Mr. Cook.

Ed. 520. Agricultural Education Seminar. 1-1-1

Prerequisite: Eighteen credits in Education.

A critical review of current articles and books of interest to students of agricultural education. Staff.

Ed. 521. Research in Education. 3-3-3

Prerequisite: Eighteen hours in Education and permission to register.

One or more research problems under the guidance of a member of the staff. Staff.

INDUSTRIAL EDUCATION AND INDUSTRIAL ARTS

Ed. (I.A.) 105 a, b, c. Industrial Arts Drawing. 3-3-3

Required of freshmen in Industrial Arts Education.

Fundamentals of pictorial representation, such as layout work, machine, and architectural drawing. Mr. Ludington.

Ed. (I.A.) 106 a, b, c. Orientation in Industrial Arts. 3-3-3

Required of freshmen in Industrial Arts Education.

Provides initial experiences for students interested in teaching Industrial Arts in the secondary school; emphasizes the importance and relation of Industrial Arts to other areas in the school and to individual development.

Mr. Ludington.

Ed. (I.A.) 205. Industrial Arts Design. 0-0-3

Prerequisite: Ed. (I. A.) 105, a, b, c.

Required of sophomores in Industrial Arts Education.

Design and construction in a variety of industrial materials; stressing individual expression and appreciation of well designed industrial products.

Mr. Ludington.

Ed. (I.A.) 206a, b, c. Laboratory Problems in Industrial Arts. 3 3-3

Prerequisites: Ed. (I. A.) 105 a, b, c, and I. A. 106 a, b, c.

Required of sophomores in Industrial Arts Education.

Explorations in drawing, planning, woodwork, metal work, and electricity.

Mr. Ludington.

Ed. (I.A.) 306 a, b, c. Laboratory Problems in Industrial Arts. 3-3-3

Prerequisites: Ed. (I. A.) 105 a, b, c; Ed. (I. A.) 106 a, b, c, and Ed. (I. A.) 206 a, b, c.

Required of all juniors in Industrial Arts Education.

Advanced hand and machine tool techniques in printing, electricity, and metal work; stressing the development of master craftsmanship and an understanding of related social-economic problems. Mr. Ludington.

Ed. 344. Problems in Secondary Education. 3-0-0

Prerequisites: Ed. 303, and 6 other credits in Education.

Required of juniors preparing to teach industrial subjects.

Problems of secondary education, with special reference to the relationships of industrial subjects with the other elements of the school program.

Mr. Ludington.

Courses for Graduates and Advanced Undergraduates

Ed. 416. Local Survey; Planning a Program. 0-3-0

Methods of surveying local occupations; use of the findings to plan a program of Industrial Education. Mr. Smith.

Ed. 422. Methods of Teaching Industrial Subjects. 3-0-0

Prerequisites: Ed. 304, 344.

Required of seniors in Industrial Arts Education and those preparing to teach vocational classes in trades and industries.

Principles of teaching in the classroom or shop; intended for those who are teaching or preparing to teach shop and drawing courses.

Mr. Ludington.

Ed. 427. Philosophy of Industrial Education. 0-3-0

The philosophy of industrial education, a review of Federal and State legislation pertaining to industrial education; part-time, all-day trade, general industrial, and evening schools. Mr. Smith.

Ed. 433. Field Work in Secondary Education. 0-3-0

Prerequisites: Ed. 344, and 6 credits in Education.

Required of juniors in Industrial Arts Education.

A study of pupil-teacher-community relationships at the secondary school level involving observations, visits, reports, readings, and conferences.

Staff.

Ed. 440. Vocational Education. 3 or 3 or 3

Prerequisites: Ed. 303, 344, and 6 additional credits in Education.

Elective for students in Industrial Arts and Industrial Education.

Problems of vocational education; underlying philosophy; its place in our system of education; the laws governing prevailing practices and administration; agricultural, homemaking, industrial, and commercial vocations; deals with all-day, evening, part-time, and general continuation class work. Staff.

Ed. 444. Observation and Directed Teaching of Industrial Subjects. 3-3-0 or 0-3-3

Prerequisites: Ed. 422, 433.

Required of students who desire an "A" grade certificate to teach industrial subjects.

Observation of and active participation in phases of teacher activity; students will work in actual situations under supervision. Staff.

Ed. S., Ex. 452. Industrial Arts in the Elementary School. 3 credits

Prerequisite: 12 credits in education and the consent of the instructor.

For advanced undergraduate and graduate students; organized to help students gain insights into the materials, processes, and products of industry fundamental to an understanding of major problems of living. Staff.

Ed. (I.A.) 470 a, b, c. Laboratory Problems in Industrial Arts. 3 or 3 or 3

An elective course for undergraduates and graduates with consent of the instructor.

Advanced laboratory conducted on general shop or laboratory of industries basis. Mr. Ludington.

Ed. S., Ex. 480. Modern Industries. 3 credits

Prerequisite: 12 credits in education and consent of the instructor.

Elective course for advanced undergraduate and graduate students in industrial arts. Designed to assist teachers in guiding students to sources of information relative to various modern industries. Staff.

Ed. 482. Curriculum Problems in Industrial Arts. 3-0-0

A course for advanced undergraduate and graduate students in Industrial Arts Education.

Planning and organizing of learning experiences in the Industrial Arts area. Mr. Ludington.

Ed. 483. Instructional Aids and Devices. 0-3 0

Prerequisites: Ed. 304, and 6 other credits in Education.

Required of those intending to teach Industrial Arts or Industrial Education, and those who because of trade experience desire to teach trade subjects.

Analysis of learning units, and the preparation of instructional aids and devices. Mr. Ludington.

Ed. 484. Laboratory Planning and Equipment Selection. 0-0-3

A course for advanced undergraduate and graduate students.

The physical planning of school shops and laboratories; selection of tools and equipment. Whenever possible, actual or contemplated school buildings will be used for class work. Mr. Ludington.

Ed. 492. Individual Problems in Education. 3 credits

An elective course for graduate students in Industrial Arts Education and Industrial Education, with consent of instructor.

Individual and group studies of one or more major problems in Industrial Arts and Industrial Education. Problems will be approached through the application of research techniques with final reports prepared in a form suitable for publication as a magazine article, technical or professional bulletin. Staff.

Courses for Graduates Only

Ed. 510. Administration and Supervision of Vocational Education.

Prerequisites: Ed. 304, 344, 420, 440, or equivalent. 3 or 3 or 3

For graduate students majoring in Education.

Administrative and supervisory problems of vocational education; practices and policies of Federal and State offices; organization and administration of city and consolidated systems. Staff.

Ed. 514. Modern Principles and Practices in Secondary Education.

3 or 3 or 3

Required of graduate students in Guidance, Industrial Arts, and Industial Education.

Foundations of modern programs of secondary education; purposes, curriculum, organization, administration, and the place and importance of the high school in the community in relation to contemporary social forces.

Mr. Ludington.

Ed. 521. Research in Education. 3 or 3 or 3

The student will make a study of one or more research problems under the supervision of some member of the staff of the Department of Teacher Education. The course will be selected on the recommendation of the member of the faculty with whom the student plans to carry on the study.

Staff.

Ed. 530. Philosophy of Industrial Arts. 3 or 3 or 3

Required of all graduate students in Industrial Arts Education; elective for others with consent of the instructor.

Current and historical developments in Industrial Arts; philosophical concepts, functions, scope, criteria for the selection and evaluation of learning experiences, laboratory organization. student personnel programs, community relationships, teacher qualifications, and problems confronting the Industrial Arts profession. Mr. Ludington.

Courses for Graduates and Advanced Undergraduates

Ed. 420. Principles of Guidance. 3 or 3 or 3

Prerequisite: 12 credits in education.

The place of guidance in the school program covering the elementary, junior high, and senior high divisions. It will treat of the development of educational and vocational guidance, the relation of personnel work, principles and practices of guidance in employment.

Ed. 424. Occupational Studies. 0-0-3

Prerequisite: 12 credits in Education.

Intended to acquaint teachers with the field of occupations; selection of suitable instructional materials and its presentation to pupils; analyses of leading groups of occupations.

Ed. 433. Field Work in Secondary Education. See page 222

Ed. 481. Character Education. 0-0-3

Prerequisite: 12 credits in Education.

Factors influencing character development; opportunities and responsibilities of the school for the conception and attitudes fundamental to good conduct, trends, materials, and procedures. Mr. Cook.

Ed. 490. Individual Problems in Guidance. 3 or 3 or 3

Elective for advanced undergraduate and graduate students interested in the guidance field.

Intended for individual or group studies of one or more of the major problems in guidance and personnel work. Problems will be selected to meet the interests of individuals of the class and approached through research techniques with the idea of preparing suitable material for distribution in mimeographed or bulletin form. Staff.

Courses for Graduates

Ed. 512. Problems in Counseling. 0-0-3

Prerequisite: Ed. 420, 432, or equivalent.

Intended for teachers of experience and those interested in the problems of guidance in school and industry; attention to group and individual counseling as applied to the junior and senior high schools, colleges, or placement offices; procedures of conducting interviews and conferences.

Ed. 521. Research in Education. See page 224

Educational Psychology

Ed. 303, 304. Educational Psychology. 3-3-0

(For description of course see Psychology 303, 304) Mr. Moffie.

Ed. 476. Psychology of Adolescence. 0-0-3

(For description of course see Psychology 476) Mr. Moffie.

ELECTRICAL ENGINEERING

Courses for Undergraduates

E. E. 201, 202, 203. Electrical Engineering Fundamentals. 3-3 3

Prerequisite: Math. 102.

Required of sophomores in E. E. Concurrent with Phys. 201, 202, 203.

Fundamental laws of electric, magnetic and dielectric circuits; problem drill. Timbie and Bush: *Principles of Electrical Engineering.*

Messrs. Brennecke, Fouraker, and Browne.

Courses for Advanced Undergraduates

E. E. 301, 302, 303. Electrical Engineering. 4-4-4

Prerequisite: E. E. 202.

Required of juniors in E. E.

Principles, performances and characteristics of direct-current apparatus; theory of periodic currents, alternating-current circuits and systems. Kloeffler, Brennenman and Kerchner: *Direct Current Machinery.* Bryant and Correll: *A. C. Circuits.* Messrs. Fouraker and Pearsall.

E. E. 311, 312, 313. Electrical Engineering Laboratory, I. 2-2-2

Required of juniors in E. E. Concurrent with E. E. 301, 302, 303.

A laboratory course coördinated with E. E. 301. Ricker and Tucker, *Electrical Engineering Laboratory Experiments.*

Messrs. Lear, Pearsall, Keever, Glenn, and Nichols.

E. E. 315, 316. Fundamentals of Electronics. 0-4-4

Prerequisite: E. E. 301.

Required of Juniors in E. E.

The fundamental principles of electron tubes and their associated circuits.

Messrs. Glenn and Carley.

E. E. 320, 321, 322. Elements of Electrical Engineering. 3-3-0 or 3-3-3

Prerequisites: Math. 202, Phys. 203.

Required of juniors in Aero E., Chem. E., C. E., and Geol. E., and of seniors in Cer. E., Gen. E., I. E., and M. E.

Theory and problems in applied electricity; motor characteristics and industrial applications.

Messrs. Lear, Keever, Pearsall, Glenn, and Winkler.

E. E. 325, 326, 327. Electrical Engineering Laboratory, II. 1-1-1

Required of Seniors in Gen. E., I. E., and M. E.

A laboratory course coördinated and concurrent with E. E. 321, 322, 323.

Messrs. Lear, Keever, Pearsall, Glenn, Winkler, Nichols.

E. E. 343. Electrical Equipment of Buildings. 0-0-3

Prerequisite: Phys. 203.

Required of seniors in C. E. in Construction and Building Materials Options and Architectural Engineering.

Wiring of buildings for light and power; selection of motors and lighting equipment. Moyer and Wostrel: *Industrial Electricity and Wiring.*

Messrs. Lear and Winkler.

Courses for Graduates and Advanced Undergraduates

E. E. 401, 402. Alternating-Current Machinery. 4-4-0

Prerequisite: E. E. 303.

Required of seniors in E. E.

Principles and characteristics of alternating current-machinery. Bryant and Johnson: *Alternating-Current Machinery.*

Messrs. Fouraker and Keever.

E. E. 403. Electric Transmission. 0-0-4

Prerequisite: E. E. 402.

Theory and characteristics of electric circuits for transmission of power. Bryant and Correll: *Alternating Current Machinery.*

Messrs. Fouraker and Keever.

E. E. 411, 412, 413. Electrical Engineering Laboratory. 2-2-2

Required of seniors in E. E. Concurrent with E. E. 401, 402, 403.

A laboratory course coördinated with classroom work. Ricker and Tucker, *Electrical Engineering Laboratory Experiments.*

Messrs. Keever, Pearsall, Glenn, and Winkler.

E. E. 421, 422, 423. Electric Power Applications (Optional with E. E. 425, 426, 427). 3-3-3

Prerequisites: E. E. 303.

Selection of electric equipment for industrial applications, control equipment; electric traction; electric power plants. Mr. Browne.

E. E. 425, 426, 427. Electric Communications (Optional with E. E. 421, 422, 423). Concurrent with E. E. 445, 446, 447. 3-3-3

Prerequisites: E. E. 303.

Circuits and equipment for wire communication; radio and carrier current systems. Everitt: *Communication Engineering.*

Messrs. Fouraker and Glenn.

E. E. 437. Illumination. 0-0-3

Prerequisites: E. E. 303.

Required of seniors in E. E.

Characteristics of electric lamps; electric lighting systems. Kunerth: *Textbook of Illumination.* Mr. Lear.

E. E. 441, 442, 443. Electrical Measurements in Industry. 3-3-3

Prerequisite: E. E. 303 or E. E. 322 or E. E. 333.

Theory and practice of electrical measurements in industry, including electrical methods applied to measurement of nonelectric values.

Mr. Brown.

E. E. 445, 446, 447. Ultra High Frequency Techniques. 4-4-4

Prerequisites: E. E. 401, 411, with E. E. 425, 426, 427 concurrently.

The production, control and use of ultra high frequency radio signals for communication and detection. Brainerd, *et al: Ultra-High Frequency Techniques.* Mr. Carley.

E. E. 453. Power Network Calculations. 0-0-3

Prerequisite: E. E. 403.

The method of symmetrical components applied to fault calculation in power system networks. Mr. Brennecke.

Courses for Graduates Only

E. E. 501, 502, 503. Fundamental Principles in Electrical Engineering. 3-3-3

Prerequisites: E. E. 402, 403.

Review of fundamentals involved in the more complex problems encountered in electrical engineering. Mr. Fouraker.

E. E. 505, 506, 507. Electrical Engineering Seminar. 1-1-1

Prerequisite: Graduation in E. E.

A series of papers and conferences of junior instructional staff and students who are candidates for advanced degrees in electrical engineering.

Messrs. Brennecke, Fouraker, Browne.

E. E. 521, 522, 523. Engineering Electronics. 4-4-4

Prerequisite: Graduation in E. E.

Electron tubes in industry, including studies of various types of tubes and their associated circuits. Mr. Carley.

E. E. 531, 532, 533. Illumination Engineering. 3-3-3

Prerequisite: Graduation in E. E.

Advanced principles of Illumination Engineering. Mr. Browne.

E. E. 550. Electrical Engineering Research. 3-3-3

Prerequisite: Graduation in E. E.

Individual research in the field of Electrical Engineering.

Mr. Fouraker.

ENGINEERING MECHANICS

Courses for Advanced Undergraduates

E. M. 311. Engineering Mechanics. 3 or 3 or 3

Prerequisite: Math. 201.

Co-requisites: Math. 202 and Phys. 201.

Required of all students in Engineering.

Statics and Friction: Study of concurrent, parallel and nonconcurrent systems of both coplaner and noncoplaner forces; the application of statics to the solution of fundamental engineering problems, including statical friction. Seely and Ensign: *Analytical Mechanics for Engineers.*

Messrs. Smith, Conner, Mitchell, and Farlow.

E. M. 312. Engineering Mechanics. 3 or 3 or 3

Prerequisites: E. M. 311 and Math. 202.

Co-requisites: Math. 303.

Required of all students in Engineering.

Kinematics; centroids moments of inertia. Seely and Ensign: *Analytical Mechanics for Engineers.* Messrs. Smith, Conner, Mitchell, Farlow.

E. M. 313. **Engineering Mechanics.** 3 or 3 or 3

Prerequisites: E. M. 312 and Math. 303.

Required of all students in Engineering.

Kinetics: The motions of particles of rigid bodies as they are affected by the action of unbalanced forces. The Newtonian laws of motion; work and energy; power, impulse and momentum; applications to special engineering problems: Seely and Ensign: *Analytical Mechanics for Engineers.*

Messrs. Smith, Conner, Mitchell, and Farlow.

E. M. 321. **Strength of Materials.** 0 3 or 3

Prerequisites: E. M. 302 or E. M. 312, and Math. 303.

Co-requisite: E. M. 313.

Required of all students in Engineering.

Stresses and strains in engineering materials; tension, compression, shear, and torsion; emphasis on the applications to engineering structures; bending moments and shear in simple beams; fibre stresses in beams and their distribution throughout the cross section. Timoshenko and McCullough: *Elements of Strength of Materials.*

Messrs. Smith, Conner, Mitchell, and Farlow.

E. M. 322. **Strength of Materials.** 3 0 or 3

Prerequisite: E. M. 321.

Required of all students in Engineering except Chem. E., E. E., Geol. E., and Ind. E.

A continuation of E. M. 321. Various methods for finding the deflection of beams; determination of stresses in statically indeterminate beams; the study of columns; combined stresses. Timoshenko and McCullough: *Elements of Strength of Materials.* Messrs. Smith, Conner, and Mitchell.

E. M. 330. **Fluid Mechanics.** 3 or 3 or 3

Prerequisites: E. M. 302 or E. M. 313.

Required of students in Aero. E., Ch. E., C. E., E. E., Geol. E., M. E.

A study of the fundamental principles of mechanics of fluids; properties of fluids; intensity of pressure; hydrostatic pressure on areas; applications of hydrostatics; kinematics of fluid flow; dynamics of fluid flow; applications of hydrokinetics; friction losses in pipes; flow through pipes; dynamic forces. Daugherty: *Hydraulics.* Messrs. Conner, and Mitchell.

E. M. 331. Hydraulic Machinery. 3 or 3-0

Prerequisite: E. M. 330.

Required of students in E. E. and M. E.

The application of the principles of fluid mechanics to hydraulic pumping and power machinery; impulse and reaction type turbines; turbine laws and factors; water power plants; pumping and machinery, reciprocating and centrifugal pumps; efficiency, capacity, and selection of pumps. Daugherty: *Hydraulics*, and *Notes*. Messrs. Conner, and Mitchell.

E. M. 332. Hydraudic Structures 0 3 or 3

Prerequisite: E. M. 330.

The application of the principles of fluid mechanics to various hydraulic structures and measuring devices; buoyant force and flotation; weirs, orifices, gates; forces exerted by fluids; flow in open channels; models of open channel flow, flow in pipe lines. Daugherty: *Hydraulics*, and *Notes*. Messrs. Conner and Mitchell.

Courses for Graduates and Advanced Undergraduates

E. M. 401. Advanced Strength of Materials. 3-0-0

Prerequisites: E. M. 320 or E. M. 322.

Elective for Engineering seniors and graduate students.

Detailed study of the deflections of beams; special types of beams; statically indeterminate systems. Timoshenko: *Strength of Materials*. Mr. Smith.

E. M. 402. Advanced Fluid Mechanics. 0-3-0

Prerequisite: E. M. 330.

Elective for Engineering seniors and graduates.

A study of more advanced problems than taken up in E. M. 330; kinematics of fluid flow; conformal mapping; laminar and turbulent flow; the boundary layer; flow around immersed bodies; closed conduits. Instructor's notes and selected references. Mr. Conner.

E. M. 404. Vibration Problems. 0-0-3

*Prerequisites: E. M. 320 and 322, Math. 431a, or 431b.

Elective for Engineering seniors and graduate students.

Fundamental vibratory systems of one degree of freedom; balancing of rotating systems; calculation of critical speeds of rotating shafts; vibrating instruments; systems of several degrees of freedom. Den Hartog: *Mechanical Vibrations*. Mr. Conner.

* Math. 411, 412 are desirable.

Courses for Graduates Only

E. M. 501. Advanced Strength of Materials. 3-0-0

Prerequisites: E. M. 401, Math. 431a or 431b.

A study of more advanced problems than taken up in E. M. 320 or E. M. 322; energy of strain; Castigliano's Theorem; impact; Maxwell's Theorem; Mohr's circle. Timoshenko: *Strength of Materials.* Mr. Smith.

E. M. 502. Applied Elasticity. 0-3-0

*Prerequisites: E. M. 401, Math. 431a or 431b.

Stress analysis of machine parts; stress concentration; stress in curved bars; torsion and bending in prismatical bars; stress in thick-walled cylinders; fly wheels; shrink fits. Timoshenko: *Strength of Materials.* Mr. Smith.

E. M. 503. Applied Elasticity. 0-0-3

*Prerequisites: E. M. 502, Math. 431a or 431b.

Thin bars, plates and slabs in compression, tension, or combined compression and tension; built-up columns. Timoshenko: *Strength of Materials.* Mr. Smith.

E. M. 505. Research in Strength of Materials. 3-3-3

Special problems and investigations. Mr. Smith.

***E. M. 506. Research in Mechanical Vibrations.** 3-3-3

Prerequisite: E. M. 404.

Special problems and investigations. Mr. Conner.

***E. M. 507. Research in Fluid Mechanics.** 3-3-3

Prerequisite: E. M. 402.

Special problems and investigations. Mr. Conner.

ENGLISH

Freshman English

Eng. 101, 102, 103. Composition. 3-3-3

Required of all freshmen.

Grammar review and intensive practice in composition; reading and analysis of literary types, with emphasis upon both composition and appreciation; directed supplementary reading collateral with class study; exercises and reports; conferences.

Staff.

* Math. 411, 412 are desirable.

Writing

Eng. 211. Business English. 3 or 3 or 3

Prerequisite: Eng. 101. 102, 103.

Practical application of the principles of composition; types of letters; form, style, and tone of effective correspondence; intensive word study; conferences. Messrs. Wilson and Shelley.

Eng. 215. Principles of News and Article Writing. 3-0-0

Prerequisite: Eng. 101, 102, 103. (Class limited to twenty students.)

Introduction to the writing of simple news articles; class criticism of non-technical newspaper and magazine articles. Vocabulary building; collateral reading. Mr. Wynn.

Eng. 216. Advanced Article Writing. 0-3-0

Prerequisite: Eng. 101, 102, 103, and 215 or equivalent.

A continuation of Eng. 215, with intensive practice in writing and criticizing nontechnical articles. Subjects determined by student's interest. Vocabulary building; collateral reading. Mr. Wynn.

Eng. 222. Advanced Composition. 0-0-3

Prerequisite: Eng. 101, 102, 103.

An analysis of the techniques and aesthetics of prose style plus a study of exposition, the short-story, and other forms of creative writing. Original compositions; conferences. Mr. Shelley.

Eng. 321. Technical Writing I. (For students in Engineering.) 3 or 3 or 3

Prerequisites: Eng. 101, 102, 103, 211, 231, and one term of literature.

Intensive practice in writing engineering reports, articles, and papers for public delivery; readings in essays and in technical periodicals. Term papers in library research and technical-report writing. Mr. Fountain.

Eng. 323. Technical Writing II. (For students in Agriculture and Forestry.) 0-0-3

Prerequisites: Eng. 101, 102, 103, and required sophomore English courses.

Fundamentals of style in professional writing. Reports, articles, papers. Term papers in library research and in professional reports.

Mr. Fountain.

Speech

Eng. 231. Public Speaking. 3 or 3 or 3

Prerequisites: Eng. 101, 102, 103.

Speech organization and effective delivery; extempore speeches; audience motivation and use of motivating process; acquisition of ease before audience. Messrs. Paget, Fountain, Wynne.

Eng. 236. Parliamentary Practice. 0-2-0

Prerequisites: Eng. 101, 102, 103.

Not to be counted toward the fulfillment of any requirement in English.

Rules and customs of assemblies, including organization, motions; participation in and conduct of meetings; parliamentary strategy.

Mr. Paget.

Eng. 237. Speech Adjustment. 0-0-2

Prerequisites: Eng. 101, 102, 103.

Poise and pleasing communicative habits in all group contacts; habits of speech, posture, action, and language. Mr. Paget.

Eng. 331. Persuasion. 3-0-0

Prerequisite: Eng. 231 or equivalent.

Psychological forces, methods of conciliation, securing and holding attention, and winning response; extempore speeches and discussions.

Mr. Paget.

Eng. 332. Argumentation and Extemporaneous Speaking. 0-3-0

Prerequisite: Eng. 231 or equivalent.

Analysis, brief-drawing and evidence, and methods of proof and refutation; fundamentals of conviction; naturalness and forcefulness; extempore speeches, debates, and discussions. Mr. Paget.

Eng. 333. Public Address. 0-0-3

Prerequisite: Eng. 231 or equivalent.

Public speaking for special occasions, including speech of introduction, committee-room speech, after-dinner speech, speech at professional convention, political speech, formal sales talk. Mr. Paget.

Eng. 334. Radio Speaking. 2 or 2 or 2

Not to be counted toward the fulfillment of any requirement in English.

Prerequisites: English 231, or equivalent; approved admittance by the instructor.

A laboratory practice in the skills of radio speech; the physical properties of voice; diction; tempo; emotion. Mr. Wynne.

Literature

Eng. 261. English Literature I. 3-0-0

Prerequisites: Eng. 101, 102, 103.

Chief masterpieces of English literature from *Beowulf* through Shakespeare, with emphasis on social and historical backgrounds. Parallel readings and papers. Messrs. Hartley and Clark.

Eng. 262. English Literature II. 3 or 3 - 0

Prerequisites: Eng. 101, 102, 103.

Significant prose and poetry of the seventeenth and eighteenth centuries, with emphasis on the contribution of the two centuries to modern thought. Parallel readings and papers. Messrs. Hartley and Clark.

Eng. 263. English Literature III. 0 - 3 or 3

Prerequisites: Eng. 101, 102, 103.

Masterpieces of the nineteenth century, with emphasis on changing literary tastes and ideas; the impact of scientific development on thought and literature. Parallel readings and papers. Messrs. Hartley and Clark.

Eng. 265. American Literature I. 3-0-0

Prerequisites: Eng. 101, 102, 103.

A study of chief American literary productions in their historical setting, from the early colonial period to 1840. Mr. Ladu.

Eng. 266. American Literature II. 0-3-0

Prerequisites: Eng. 101, 102, 103.

A study of chief American literary productions in their historical setting, from 1840 to 1900. Mr. Ladu.

Eng. 267. American Literature III. 0-0-3

Prerequisites: Eng. 101, 102, 103.

A study of the leading American writers of the present century, with a relation of their works to the social background of the period.

Mr. Ladu.

Eng. 271. The English Novel. 3-0-0

Prerequisites: Eng. 101, 102, 103.

Analysis of representative novels of England and America, chosen to illustrate the development of the form and to provide a background for appreciating the modern novel. Staff.

Eng. 272. Modern Drama 0-0-3

Prerequisites: Eng. 101, 102, 103.

Modern plays, beginning with Ibsen; contemporary English and American productions. Mr. Clark.

Eng. 273. The Development of the Drama. 0-0-3

Prerequisites: Eng. 101, 102, 103.

Origin, progress, and influence; plot, characterization, and interpretation of certain readings. Staff.

Eng. 275. Southern Writers. 3-0-0

Prerequisites: Eng. 101, 102, 103.

An introduction to Southern culture as revealed in poetry from Poe to John Crowe Ransom and in the regional novel and short story; readings in the contemporary Southern essay dealing with social, political, and literary problems. Mr. Kincheloe.

Eng. 276. English Poetry, 1830-1900. 0-3-0

Prerequisites: Eng. 101, 102, 103.

A study of major poets writing in an age of scientific progress and social change. Emphasis on Browning, Tennyson, and Arnold. Parallel readings and papers. Mr. Hartley.

Eng. 281. Literary Masterpieces. 3-0-0

Prerequisites: Eng. 101, 102, 103.

A background for the enjoyment of literature; an introduction to its appreciation and criteria. Staff.

Eng. 282. The Short-Story. 0-0-3

Prerequisites: Eng. 101, 102, 103.

An appreciation of the present-day short-story through examination of development, structure, type, and style; a comprehensive term paper, or its equivalent in original short fiction. Mr. Wynne.

Eng. 283. The Bible as Literature. 0-3-0

Prerequisites: Eng. 101, 102, 103.

Selected books of the Old and New Testaments (King James Version) as literary and historical documents. Mr. Ladu.

Eng. 285. Shakespeare. 3-0-0

Prerequisites: Eng. 101, 102, 103.

An analysis of principal plays. Reports on parallel readings.
Mr. Clark.

Eng. 286. The Romantic Period. 0-3-0

Prerequisites: Eng. 101, 102, 103.

English literature from 1790 to 1830, with special emphasis on Wordsworth, Coleridge, Byron, Shelley, and Keats; collateral reading; reports.
Mr. Clark.

Eng. 287. Modern Biography. 0 3-0

Prerequisites: Eng. 101, 102, 103.

A study of short modern biographies by representative American and British writers; collateral reading in longer biographical works; reports and assignments for investigation. Mr. Shelley.

Eng. 291. The Eighteenth Century. 0-3-0

Prerequisites: Eng. 101, 102, 103.

Chief masterpieces of English literature from Alexander Pope to nineteenth century; collateral reading; reports. Mr. Hartley.

Eng. 292. Contemporary British Literature. 0-0-3

Prerequisites: Eng. 101, 102, 103.

An introduction to chief figures in contemporary British literature; Kipling, Galsworthy, Wells, Bennett, Conrad. Collateral readings; term paper.
Mr. Ladu.

ETHICS AND RELIGION

Courses

Rel. 301. Introduction to Religion. 3-0-0

Characteristics of the major religious sects of America and brief survey of recent trends in religious thought. Mr. Hicks.

Rel. 302. The Life of Jesus. 3-0-0

The career of Jesus of Nazareth as recorded in the Synoptic Gospels and interpreted against the religious, economic, and political background of the age in which Jesus lived. Mr. Hicks.

Rel. 303. The Teachings of Jesus. 0-3-0

The ethical and religious teachings of Jesus as recorded in the Synoptic Gospels, with special emphasis on the contrast between the teachings of Jesus and his contemporaries. Mr. Hicks.

Rel. 301. Comparative Religion. 0-3-0

Brief history, general characteristics, and social significance of living religions of the world. Mr. Hicks.

Rel. 305. Religious Education. 3 credits

Survey of the contemporary educational organization and practice of the major denominations in the United States. Lectures, personal conferences and field assignments. Mr. Hicks.

Ethics 405. Social Ethics. 0 0-3

Prerequisite: Six term credits in Religion or related fields.

Review of the ethical codes of the larger professional groups, with analysis of the nature, evolution, and significance of moral values.
Mr. Hicks.

Rel. 406. Problems of Religion. 0-0-3

Prerequisite: Six term credits in Religion or related fields.

Religious verities in an age of science and the problems of the church in modern times. Mr. Hicks.

Ethics 407. Ethical Problems of Adolescence. 3 credits

Prerequisite: Six term credits in Religion or related fields.

Typical adjustment problems of modern youth, with special consideration to adolescent and pre-adolescent sex instruction and guidance.
Mr. Hicks.

Rel. 408. Christian Personality in Its Psychological Aspects. 3 credits

Prerequisite: Six term credits in Religion or related fields.

An analysis of the psychological validity of the principal ethical teachings of the Sermon on the Mount with emphasis on the relationship of religious attitudes and practices to mental and emotional stability and maturity.

Mr. Hicks.

Ethics 409. Problems of Marital Adjustment. 3 or 3 or 3

Prerequisite: Six term credits in biological or social science. Sections limited to 25 students.

The practical application of pertinent findings of biological and social science to personal problems of premarriage and postmarriage adjustment. Lectures, discussions, and personal conferences. Mr. Hicks.

EXPERIMENTAL-STATISTICS

Courses for Advanced Undergraduates

Stat. 301, 302. Statistical Laboratory. 1-1-0

Use of calculating machines and of punched card tabulation equipment; short cut machine methods; experience in handling large sets of data.

Mr. Monroe.

Stat. 311. Introduction to Experimental-Statistics. 3 0-3

Source material, collection, tabulation, presentation and interpretation of survey and experimental data. Charts, graphs and lettering. Miss Cox.

Courses for Graduates and Advanced Undergraduates

Stat. 412, 413. Experimental-Statistics. 5-5-0

The application of statistical techniques such as sampling, regression and analysis of variance and covariance to experimental data.

Messrs. Rigney, Monroe.

Stat. 421, 422, 423. Applied Mathematical Statistics. 3-3-3

Prerequisite: Math. 303 (Calculus).

Theory of probability, statistical inference, least squares with stress on the interpretation of the results in terms of probability.

Mr. Anderson.

Stat. 431. Design of Experiments. 0-0 3

Prerequisite: Stat. 413.

Fundamental principles of designs; randomized blocks, Latin squares, split plot and factorial designs; individual comparisons, components of error and confounding. Designs for specific research problems. Miss Cox.

Stat. 413. Statistical Analysis of Economic Data. 0-0-3

Prerequisite: Stat. 412.

Statistical analysis of economic data distributions, averages, dispersion, correlation and regression, index numbers and tests of significance.

Mr. Anderson.

Stat. 451. Statistical Analysis of Social Data. 0-0-3

Prerequisite: Stat. 412.

Sampling social data, rural surveys and testing methods; analysis of variance and relationships; population studies. Application to problems in the fields of sociology, psychology and education. Mr. Hamilton.

Stat. 461, 462. Industrial Statistics. 3-3-0

Introduction to industrial sampling and inspection. Use of statistical methods in interpreting tolerances and specifications, and in controlling quality during production. Elements of the theory of significance testing. Reliability of industrial and scientific measurements. Mr. Peach.

Courses for Graduates Only

Stat. 511, 512, 513. Special Problems. 1-3, 1-3, 1-3

Development of techniques for specialized cases, particularly in connection with thesis problems. Staff.

Stat. 515. Research Method in Plant Science. 3-0-0

Prerequisite: Stat. 413.

Techniques of establishing and maintaining field and greenhouse experiments, size, shape and orientation of plots, border effects, estimation of experimental material required for specified accuracy, subsampling plots for yields and laboratory analyses. Mr. Rigney.

Stat. 521. Research Method in Animal Science. 3-0-0

Prerequisite: Stat. 431.

Sources of errors in experiments with animals, experimental designs adapted for specific types of animal research, estimation of data required for specified accuracy, factors involved in the increase of accuracy at minimum cost. Mr. Lucas.

Stat. 525. Statistical Concepts in Genetics. 0-3-0

Prerequisite: Stat. 412 and Zool. 411.

The composition of phenotypic variance and the estimation of environmental, genetic, and heritable genetic variance. Coefficients of inbreeding and relationship. The effects of various selection procedures and systems of breeding on population means and variances.

Stat. 531, 532. Sample Survey Techniques. 0-3-3

Prerequisite: Stat. 413.

Sampling from a homogeneous population; size of sample; structure of sampling investigation. Mr. Cochran.

Stat. 533. Crop Forecasting and Estimation. 0-3-0

Prerequisite: Stat. 531.

Methods used to select variables related to crop forecasting and estimating; selection techniques. Mr. Hendricks.

Stat. 542, 543. Experimental Designs. 0 3-3

Prerequisite: Stat. 431.

Confounding, quasi-factorial designs, incomplete blocks and lattice squares. Survey of type of designs available. Choice of plans for pasture, field, greenhouse, animal, and human experiments. Miss Cox.

Stat. 545, 546, 547. Advanced Industrial Statistics. 3-3-3

Prerequisite: Stat. 462.

Theory of industrial sampling. Use of analysis of variance to test for homogeneity. Randomized blocks, Latin squares, factorial and incomplete block designs in factory trouble shooting and industrial research. Industrial applications of correlation and regression methods. Quality control and inspection in exceptional cases.

Stat. 552, 553. Econometric Methods. 0 3-3

Prerequisite: Math. 303 (Calculus).

Mathematical formulation and exposition of demand, laws of production, monopoly and taxation, random element, seasonal and cyclical variations; trend, orthogonal polynomials and correlation of time series.

Mr. Anderson.

Stat. 562. Psychometric Methods. 0-3-0

Prerequisite: Stat. 413.

Rating scales; mental-test methods; item and factor analysis; standard partial regression coefficients and functional relationships.

Stat. 571, 572, 573. Advanced Mathematical Statistics. 3-3-3

Prerequisite: Stat. 423.

Theory of errors, maximum likelihood, estimation, least squares and distribution theory.

Stat. 575, 576. Advanced Experimental-Statistics. 0-3-3

Prerequisite: Stat. 413 or 423.

More complex applications of chi squares, regression theory and analysis of variance. Transformation of data before analysis. Discriminant function analysis and recently-discovered techniques. Introduction to fundamental ideas in statistical estimation and in testing significance. Mr. Cochran.

Stat. 581, 582, 583. Seminar. 1-1 1

Staff.

Stat. 591, 592, 593. Research. 3-3-3

Staff.

FIELD CROPS (AGRONOMY)

Courses for Undergraduates

F. C. 101. General Field Crops. 4-0-0 or 0-4-0

A standard introductory course dealing with fundamental factors in production and management of crops. Mr. ———

F. C. 303. Southern Field Crops. 0-5-0

Prerequisite: Field Crops 101 and Soils 202.

Production of the major crops (other than forage) grown in North Carolina, with special attention given to recent developments in varietal improvement, crop rotation, the management of crops in different cropping systems and utilization. Staff.

F. C. 403. Pastures and Forage Crops. 0-0-5

Prerequisite: F. C. 101.

A study of the production and preservation of the principal forage crops. Special attention is given to the development and maintenance of pastures.

Mr. Lovvorn.

F. C. 412. Plant Breeding. 0-3-0

Prerequisite: Zool. 411.

Lectures, field and laboratory exercises, including methods and principles of plant breeding. Mr. Gregory.

F. C. 413. Weeds and Their Control. 0-0-2

Physiological principles involved in cultural and chemical control. Practice in identification of plants and seeds. Mr. ———————

F. C. 421, 422, 423. Special Crops. 3-3-3

For advanced undergraduates only.

Designed for special students who wish additional work in the production or handling of any particular crop, such as tobacco, cotton, peanuts, small grain, forage crops, etc. Registration only with consent of instructor.

Staff.

Courses for Graduates Only

F. C. 503. Advanced Plant Breeding and Plant Genetics. 0-0-3

Prerequisites. Good foundation in genetics, cytogenetics, plant morphology and evolution.

Theory, procedure and technique. Mr. Gregory.

F. C. 513. Forage Crop Ecology. 0-3-0

Prerequisites: F. C. 403 and Botany 441.

Research methods and consideration of the literature. Mr. Lovvorn.

F. C. 515. Research Methods in Plant Science. 0-3 0

Prerequisite: Stat. 412.

See Stat. 515 for description. Mr. Rigney.

F. C. 522, 523. Cytogenetics.* 0-5-5

Prerequisites: Elementary microtechnique; foundation in genetics, plant morphology and evolution.

Principles of cytology, cytogenetics, in theory and practice. Mr. Smith.

F. C. 531, 532, 533. Seminar. 1-1-1

Prerequisites: Graduate standing in Field Crops.

Scientific articles, progress reports in research, and special problems of interest to agronomists reviewed and discussed. Staff.

F. C. 541, 542, 543. Research.

Prerequisite: Graduate standing in Field Crops. Staff.

FORESTRY

Courses for Undergraduates

For. 101. Elementary Forestry. 3-0 0

The nature and development of forests of the world, with special study of the forests of the United States; a correlation of all sciences required in forestry; field trips included. Mr. Hofmann.

For. 111. Principles of Farm Forestry. 0-0-3

The theory and practice of forestry with special reference to the handling of farm woodlands and the utilization of their products; the place of forestry in farm management and the agricultural economy.

Mr. Chalfant.

For. 201. Wood Technology. 3-0-0

Microscopic slides of the conifers and broad-leaved trees are studied in order to determine the occurrence, form, and structure of the wood elements. Identification by means of the hand lens is especially emphasized.

Mr. Slocum.

For. 203. Timber Physics. 0-0 3

Mechanical properties of wood. Strength tests. Methods of testing. Growth conditions that produce the best timber for specific purpose. Mr. Slocum.

* Students are expected to confer with instructor in advance of registration.

For. s204. Silviculture. 3 credits

Prerequisites: Bot. 211, 213.

Sophomore summer camp.

Growth and development of forest stands; reproduction counts, type mapping, thinning and weeding; establishment and measurement of sample plots. Messrs. Miller, Slocum.

For. s214. Dendrology. 2 credits.

Prerequisites: Bot. 211, 213.

Sophomore summer camp.

Identification and study of trees in Piedmont and Mountain sections of North Carolina. Messrs. Slocum, Miller.

For. s244. Forest Protection, Improvements, and Influences I. 2 credits.

Sophomore summer camp.

Forest fire prevention and control methods. Road and improvement construction and effect of weather on fire conditions. Mr. Chalfant.

For. s274. Mensuration I. 2 credits

Prerequisites: C. E. 221, 222.

Sophomore summer camp.

Collection of field data for stand and yield tables, stem analysis, and timber surveys. Messrs. Slocum, Miller.

For. 301. Timber Preservation. 3-0-0

Prerequisite: For. 202.

Lumber and timber preservatives and their use; methods of preservation; relation of preservation to forestry and industry. Mr. Slocum.

For. 311. Forest Utilization I. 3-0-0

The problems of more complete utilization of forest resources; utilization of present waste in commercial practice. Mr. Wyman.

For. 313. Forest Utilization II. 0-0-3

A continuation of Forest Utilization I in the field with visits to and reports on wood utilization plants. Mr. Wyman.

For. 321. Lumber Seasoning and Grading. 3-0-0

Prerequisite: For. 201.

Air-seasoning and kiln drying of lumber; kiln construction and operation; lumber grading principles. Mr. Wyman.

For. 322. Gluing and Plywood. 0-3-0

Prerequisite: For. 201.

Methods of manufacturing veneer and assembling plywood. Properties and uses of glues and resins in plywood and built-up woods. Mr. Wyman.

For. 323. Logging. 0-0-3

Prerequisite: For. 362.

Required of seniors in Forestry.

The logging industry and transportation methods; logging costs; application of methods to specific conditions; all forest regions are covered, discussing the problems of each. Mr.Wyman.

For. 331. Naval Stores. 3-0-0

Methods of turpentining woods practices; factors influencing oleoresin yields; distilling practices; integration with other forest products utilization. Mr. Wyman.

For. 332. Forest Policy. 0-3-0

State and federal forest legislation; timber law, illustrated by court cases. Mr. Miller.

For. 333. Methods of Research in Forestry. 0 0-3

Methods and procedures, problem outlines, presentation of results; consideration of selected studies by forest research organizations; sample plot technique. Mr. Kaufman.

For. 313. Forest Protection. Improvements. and Influences II. 0 0-3

Prerequisite: For. s242.

Organization and operation of forest fire prevention and control methods. Forest road and telephone line construction and maintenance. Effect of weather on fire conditions. Mr. Chalfant.

For. 353. Dendrology. 0-0-1

Identification and study of trees in the Coastal section of North Carolina. Mr. Slocum.

For. 361. Silviculture I. 3-0-0

Factors affecting tree growth and distribution; forest regions, sites, stands, and types; silvical requirements of important tree species.

Mr. Miller.

For. 362. Silviculture II. 0-3-0

Production, collection, extraction, storage, and planting of forest-tree seeds. Mr. Slocum.

For. 363. Silviculture III. 0-0-3

Prerequisite: For. 362.

Methods of cutting to secure natural regeneration; intermediate cuttings, and their effect on the stand; slash disposal. Mr. Miller.

For. 371, 373. Mensuration II, III. 3-0-4

Prerequisite: For. s274.

The measurement of timber, both standing and felled; log rules, form factors, stem analysis, and growth.

Methods of making volume, growth, and stand tables; increment and yield studies; development of stand and yield tables from field data.

Mr. Slocum.

Courses for Graduates and Advanced Undergraduates

For. 401. Forest Finance. 3 0-0

Forests as investments: interest, carrying charges, financial maturity; relation of intermediate to final and net incomes; forest taxation, hazards in forest investments, and forest insurance. Mr. Chalfant.

For. 403. Timber Appraisal. 0-0-3

Field and office methods of valuing timber lands, with special reference to stumpage appraisal; the evaluation of damages to timber and forest property. Mr. Chalfant.

For. 412. Silviculture IV. 0-3-0

Prerequisite: For. 411.

The application of silvicultural methods in the forests of the United States. Mr. Miller.

For. 422. Forest Products. 0-3-0

Prerequisite: For. 201.

The source and method of obtaining derived and manufactured forest products other than lumber. Mr. Wyman.

For. 431, 432. Forest Management. 3-3-0

Prerequisite: For. 362.

Management of timber lands for economic returns; the normal forest taken as the ideal; the application of regulation methods to the forest; a typical working circle as developed by the United States Forest Service studied for each forest region. Mr. Hofmann.

For. 433. Advanced Wood Technology. 0-0-3

Prerequisite: For. 202.

Advanced microscopic identification of the commercial woods of the United States; microscopic work in anatomy and identification. Mr. Slocum.

For. 442. Lumber Manufacturing. 0-3-0

The manufacture and re manufacture, transportation and handling of lumber; grades and grading of lumber. Mr. Wyman.

For. 452. Forest Grazing. 0 0-2

Management of range areas, all grazing regions with special consideration of the southeast. Mr. Kaufman.

For. 453. Aerial Mapping. 0-0-2

Interpretation of aerial photographs, determination of density of timber stands and area mapping. Mr. Chalfant.

For. 461, 462, 463. Forestry Problems. 3-3-3

Assigned or selected problems in the field of silviculture, logging, lumber manufacturing, or forest management. Staff.

Courses for Graduates Only

For. 501, 502, 503. Advanced Forest Management Problems. 3-3-3

Complete management program for a specific forest area. Mr. Hofmann.

For. 511, 512, 513. Advanced Silviculture Problems. 3-3-3

Advanced problems or experiments in silviculture. Mr. Miller.

For. 521, 522, 523. Advanced Logging Problems. 3-3-3

Selected research logging problems of an advanced nature. Mr. Wyman.

For. 531, 532, 533. Advanced Lumber Manufacturing. 3-3-3

Selected advanced problems dealing with the manufacture and seasoning of lumber. Mr. Wyman.

For. 541, 542, 543. Advanced Utilization Problems. 3-3-3

Problems of an advanced grade in some phase of forest utilization. Mr. Wyman.

For. 551, 552, 553. Forest Valuation. 3-3-3

Planning, organizing, and conducting, under general supervision, an important research project in one of the fields of valuation. Mr. Wyman.

For. 561, 562, 563. Problems in Research. 3-3-3

Specific forestry problems that will furnish material for a thesis. Mr. Miller.

GEOGRAPHY

Courses for Undergraduates

Geog. 201,2. Geography. 3-3-0

Elective.

A course covering the principal elements of physical and human geography. Mr. Shulenberger.

GEOLOGY

Courses for Undergraduates

Geol. 101. Earth History. 0-3-0

Elective. Not to be taken after Geol. 120, 220, and 222.

Introductory course in General Geology: changes in the earth, and underlying physical and life processes. Bradley: *The Earth and Its History.* Mr. Stuckey.

Geol. 120. Physical Geology. 4 or 4 or 4

Required of freshmen in Basic Agriculture and Agricultural Education, and of sophomores in Forestry and Landscape Architecture.

Dynamic processes acting on and within the earth; materials and make-up of the earth's crust. Lectures, laboratories, and field trips. Longwell, Knopf, and Flint: *Outlines of Physical Geology,* 2nd edition. Messrs. Stuckey, Miller.

Geol. 207. Ex. Physical Geography. 3-3-0

A. The processes and forces involved in the development of land forms.

B. The physiographic provinces of the United States and their importance; physical geography of North Carolina. Mr. Stuckey.

Geol. 220. Engineering Geology. 3-0 or 3

Prerequisite: Chem. 101.

Required of sophomores in Agricultural, Ceramic, Civil, Geological, Highway, and Sanitary Engineering.

The principles of general geology and their application to engineering problems. Lectures, laboratories, and field trips. Ries and Watson: *Elements of Engineering Geology,* 2nd edition. Messrs. Stuckey, Miller.

Geol. 222. Historical Geology. 0-3-0

Prerequisite: Geol. 120 or 220.

Required of sophomores in Geological Engineering.

Major events in the history of North America; rise and development of main animal and plant groups. Lectures, laboratories and field trips. Schuchert: *Outlines of Historical Geology.* Mr. Miller.

Geol. 223. Geomorphology. 0-0-3

Prerequisite: Geol. 120 or 220.

Required of sophomores in Geological Engineering.

A systematic study of land forms and their relations to processes and stages of development and adjustment of topography to structure. Lectures, map interpretations, and field trips. Lobeck, *Geomorphology.*

Mr. Miller.

Geol. 230. Mineralogy. 3-0 or 3

Prerequisite: Chem. 103.

Required of sophomores in Ceramic and Geological Engineering, and of seniors in Chemical Engineering.

Crystallography, and physical and chemical mineralogy. Lectures and laboratory work. Kraus, Hunt & Ramsdell, 3rd Edition: *Mineralogy.*

Messrs. Stuckey, Miller.

Geol. 325. Geology and Mineral Resources of North Carolina. 3-0-0

Prerequisite: Geol. 222.

Physical geography, general geology, common rocks and minerals, and mines and quarry products of the State. Lectures, laboratories, and field trips. Mr. Stuckey.

Geol. 332. Advanced Mineralogy. 0 3-0

Prerequisite: Geol. 230. Required in Geological Engineering.

A continuation of Geol. 230. Special attention to chemical and blowpipe properties of a larger group of important minerals. Lectures and laboratory work. Mr. Stuckey.

Geol. 338. Thermal Mineralogy. 0-3 0

Prerequisites: Geol. 230 and Chem. 331.

Required of juniors in Cer. E.

A study of the behavior of ceramic materials as controlled by variations in composition, temperature, and pressure. Mr. Stuckey.

Geol. 352. Structural Geology. 0-4-0

Prerequisite: Geol. 120 or 220.

Required in Geological Engineering.

The arrangement and deformation of the different rock masses composing the earth's crust. Lectures, laboratories and field trips. Nevin: *Principles of Structural Geology.* Mr. Miller.

Geol. 353. Geophysics. 0 0 4

Prerequisites: Geol. 352, Phys. 203, C. E. 226.

Required of juniors in Geological Engineering.

Discussion of the fundamental principles underlying all geophysical methods; procedure and instruments involved in gravitational, magnetic seismic and electrical methods; study of applications and interpretation of results. Mr. Miller.

Geol. 361. Stratigraphy and Index Fossils. 3-0-0

Prerequisite: Geol. 222.

Required of juniors in Geological Engineering.

Distribution and conditions of origin of principal geologic formations in Southeastern United States; key fossils characteristic of each period. Mr. Miller.

Courses for Graduates and Advanced Undergraduates

Geol. 411, 412, 413. Economic Geology. 3-3-3

Prerequisites: Geol. 120 or 220; Geol. 230; Chemistry 103.

Required of seniors in Geological Engineering.

Mode of occurrence, association, origin, distribution, and uses of economically valuable minerals. Lectures, laboratories, and field trips. Ries: *Economic Geology*, 7th Edition. Mr. Stuckey.

Geol. 431, 132, 433. Optical Mineralogy. 3-3-3

Prerequisites: Geol. 230, and Phys. 203.

Required of seniors in Ceramic and Geological Engineering.

Theory of light as applied to the polarizing microscope; practice in determining minerals in thin sections and by immersion methods. Lectures and laboratory work. Rogers and Kerr: *Optical Minerology*. Mr. Stuckey.

Geol. 113. Petrology. 0-0-4

Prerequisites: Geol. 120 or 220; Geol. 230; and Chemistry 103.

Required of juniors in Geological Engineering.

Materials of the earth's crust; composition, texture, classification, identification, and alterations of the principal igneous, sedimentary, and metamorphic rocks. Lectures, laboratories, and field trip. Grout: *Kemp's Handbook of Rocks*. Mr. Stuckey.

Geol. 462. Advanced Engineering Geology. 0-3-0

Prerequisite: Geol. 220.

Required of seniors in Geological Engineering.

The application of geologic principles to civil engineering practice; analysis of geologic factors and processes affecting specific engineering projects. Legget: *Geology and Engineering*. Mr. Miller.

Geol. 163. Geological Surveying. 0-0-4

Prerequisites: Geol. 352 and 443.

Required of seniors in Geological Engineering.

Methods of field observation and the use of geologic surveying instruments; construction of a complete geologic map of a specific area. Lectures, laboratories, and field trips. Mr. Miller.

Geol. 471, 472, 473. Mining Engineering. Mine Design, Ore Dressing. 3-3 3

Prerequisites: Geol. 230 and 352; C. E. 222 and 225.

Required of seniors in Geological Engineering.

Mining methods, both open pit and underground; mine examination and valuation; principles of ore dressing; problems in mine design. Young: *Elements of Mining.* Mr. Miller.

Courses for Graduates Only

Geol. 511, 512. Advanced Economic Geology. 3-3-0

Prerequisites: Geol. 411, 412, 413.

Detailed study of the origin and occurrence of specific mineral deposits. Mr. Stuckey.

Geol. 543. Advanced Petrography. 0-0 3

Prerequisites: Geol. 433, 443.

Application of the petrographic microscope to the systematic and descriptive study of rocks. Mr. Stuckey.

Geol. 591, 592, 593. Geological Research. 3-3-3

Prerequisite: Permission of the Instructor.

Lectures, reading assignments, and reports; special work in Geology to meet the needs and interests of the students.

Mr. Stuckey.

HISTORY AND POLITICAL SCIENCE

Courses in History

Hist. 101, 102, 103. Economic History. 3-3-3

Required of sophomores in Industrial Education, Industrial Arts Education, and Textiles.

A survey of the development of economic life in the United States. Messrs. Edsall, Patton, Seegers.

Hist. 111, 112, 113. World History. 2-2-2

Required of freshmen in Architecture, and of all other freshmen in the School of Engineering not taking Military Science; and of sophomores in Forestry and Landscape Architecture not taking Military Science.

A general survey of Western civilization from its beginning to the present day. Mr. Barnhardt.

Hist. 121, 122. United States History. 3-3-0

Required of all freshmen in the School of Agriculture except those in Forestry; also required of freshmen in Agricultural Education.

A survey of the history of the United States since 1789, emphasizing both political and social development. Staff.

Hist. 211, 212, 213. History of the United States. 3-3-3

Elective for one, two, or three terms.

A chronological treatment of the political, diplomatic, and constitutional history of the United States in the light of its economic and social significance. Mr. Patton.

Hist. Ex. 216. Medieval History. 3 credits

A survey of the political, social, economic, ecclesiastical, and cultural history of Europe from the fourth century to the close of the fifteenth century. Mr. Barnhardt.

Hist. 221. History of Modern Europe. 3-0-0

Elective.

A survey of the economic, political, and social developments in Europe from the age of the great discoveries to the close of the eighteenth century. Mr. Barnhardt.

Hist. 222. History of Modern Europe. 0-3-0

Elective.

A survey of European history during the nineteenth century, political, economic, and social movements being emphasized in proportion to their international or European importance. Mr. Barnhardt.

Hist. 223. Contemporary Europe. 0-0-3

Elective.

A survey of the contemporary history of the principal European states and their international relations in the twentieth century. Mr. Barnhardt.

Hist. 306. North Carolina History. 0-3-0

Elective.

A general survey of the political, social, economic, and cultural developments in North Carolina, with special emphasis on the nineteenth and twentieth centuries. Mr. Barnhardt.

Hist. Ex. 310, 311, 312. Economic and Social History of the South. 9 credits

A study of the economic and social history of the Southern States. Lectures, readings, and reports. Mr. Patton.

Hist. Ex. 320. American Biography. 3 credits

Representative men and women in American politics, law, religion, agriculture, industry, commerce, science, literature, and art. Mr. Barnhardt.

Hist. 333. History of American Agriculture. 0-0-3

Required of juniors in Rural Sociology; elective for others.

Main trends in agriculture in the United States, and the place of agriculture in the economic life of the nation; special emphasis on the period since the Civil War. Mr. Seegers.

Hist. 340. History of Modern England. 3 credits

Survey of English political, social, economic, and diplomatic history, with emphasis on the nineteenth and twentieth centuries. Mr. Barnhardt.

Hist. Ex. 350. Hispanic American History. 3 credits

A brief account of the colonial period and wars for indpendence, followed by more or less detailed study of the various Hispanic American republics, with emphasis upon their relations with the United States. Mr. Patton.

Hist. Ex. 360. Contemporary History of the United States. 3 credits

Significant developments in the United States since 1914, with particular emphasis on post-war problems, foreign affairs, and the New Deal.

Mr. Patton.

COURSES IN POLITICAL SCIENCE

Pol. Sc. 211. American Government. 3 or 3 or 3

Meets School of Engineering Citizenship requirement; required of all freshmen in Agriculture and in Agricultural Education.

A survey of the origins, structure, and functions of the government of the United States. Staff.

Pol. Sc. 212. State Government and Administration. 0-3-0

A study of Federal-State relations, and the organization and administration of state and county governments. Special attention will be given to problems of government in North Carolina. Mr. Edsall.

Pol. Sc. 213. Municipal Government and Administration. 0-0-3

A study of the history, organization, and administration of American municipal corporations. Lectures, readings, and reports. Mr. Edsall.

Pol. Sc. 221. American Political Parties. 3-0-0

Elective.

The origin and development of political parties in the United States: their functions, organization, regulation, campaign methods, and elections. Mr. Patton.

Pol. Sc. 231. European Governments. 3-0 or 3

Elective.

A study of the governments of England, France, Germany, Italy, and Russia. Mr. Barnhardt.

HORTICULTURE

Courses for Undergraduates

Hort. 101. General Horticulture. 4 or 0 or 4

A course, designed to give a general insight into the field of horticulture, including geographic centers of production, and the elements of culture of fruit, vegetable, and floral crops. Messrs. Gardner, Randall.

Hort. 301. Plant Propagation. 3 or 3 or 3

Study of principles, methods and practice in seedage, cuttage, division, budding, and grafting. Mr. Randall.

Hort. 302. Vegetable Forcing. 0-3-0

Prerequisite: Hort. 101.

Production of vegetable crops in the greenhouse and other plant-growing structures. Mr. Randall.

Hort. 303. Vegetable Growing. 0-0-3

Prerequisite: Hort. 101.

Soil preparation, fertilization, irrigation, and general culture of vegetable crops. Mr. Randall.

Hort. 311. Nursery Practice. 3-0-0

Prerequisite: Hort. 101 and 301.

A course designed to acquaint the student with the principles and practices involved in the production, management, and marketing of nursery plants. Attention will be given to nursery grades for fruits and ornamentals, and inspection laws. Mr. Randall.

Hort. 312. Floral Design and Shop Management. 0-2-0

Principles and practices in the art of floral design, including the making of corsages, wreaths, sprays, baskets, and special arrangements; principles of shop management. Mr. Randall.

Hort. 313. Flower Growing. 0-0-3

Prerequisite: Hort. 101.

Principles and methods of growing outdoor floral crops and house plants, including varieties and their adaptability. Mr. Randall.

Hort. 321. Grading, Packing and Judging Horticultural Crops. 2-0-0

Prerequisite: Hort. 101.

Variety identification, grading, packing, exhibiting, and judging horticultural crops. Grades and standards. Messrs. Gardner, Randall.

Hort. 323. Ornamental Horticulture. 0-0-2

Prerequisites: Hort. 301 and L. A. 402.

The planting, transplanting, pruning, feeding, and protection of ornamental plants used in the construction and maintenance of rural home grouds. Lawn grasses and lawn-making. Mr. Harris.

Hort. 331. Fruit Growing. 3-0-0

Prerequisite: Hort. 101.

Establishing the orchard, sites, varieties, cultural practices, pruning and training, spraying, harvesting, marketing and storage. Mr. Gardner.

Hort. 311. Fruit and Vegetable Processing and Utilization. 3-0-0

Principles and methods involved in the processing and utilization of horticultural crops; including extraction and preservation of juices, quick-freezing, and other methods concerned with the manufacture of fruit and vegetable products. Mr. Jones.

Courses for Graduates and Advanced Undergraduates

Hort. 403, 411, 412, 413. Horticultural Problems I and II. 0-0-1 and 2-2-2

Prerequisite: Twelve credit hours in horticulture.

This is one continuous course through four quarters which consists of a systematic investigation of some phase of horticulture, each student choosing his own subject of study and pursuing it under direction of the instructor. Staff.

Hort. 421, 422. Commercial Fruit Growing. 3-3-0

Prerequisite: Hort. 331.

Factors underlying the commercial production of tree fruits, small fruits and grapes. The first term will be devoted to tree fruits and the second to small fruits and grapes. Messrs. Gardner, Morrow, Veerhoff, Williams.

Hort. 431, 433. Commercial Vegetable Growing. 3-0-3

Prerequisites: Hort. 303.

A study of the production of vegetable crops commonly grown on a commercial scale, including soil and climatic adaptation, and general cultural practices followed by the commercial grower. Mr. Randall.

Hort. 441, 442. Commercial Flower Growing. 3-3-0

Prerequisites: Hort. 313.

A study of the commercial production of the principal floral crops in the greenhouse and in other plant growing structures, including soil preparation, planting, fertilization, and general cultural methods. Mr. Randall.

Hort. 451. Systematic Pomology. (Offered in alternate years.) 2-0-0

Prerequisite: Hort. 331,.

Fruit varieties: their description, identification, nomenclature, and classi fication; their relationships and adaptations. Mr. Gardner.

Hort. 471. Systematic Olericulture. (Offered in alternate years.) 2 0-0

Prerequisite: Hort. 303.

Vegetable varieties: their description, identification, nomenclature, and classification; their relationships and adaptations. Mr. Randall.

Hort. 481. Systematic Floriculture. (Offered in alternate years.) 2-0 0

Prerequisite: Hort. 313.

Flower varieties: their description, dientification, nomenclature, and classification; their relationships and adaptations. Mr. Randall.

Hort. 501, 502, 503. Advanced Horticultural Crops. 3-3 3

Prerequisite: Graduate standing in Horticulture.

Special emphasis will be placed upon experimental data and the application of these results. On an option basis the subjects are as follows: 501 fruits; 502 vegetables; 503 floral crops. 3-0-0

Hort. 511. Methods in Horticultural Research. 3-0 0

Prerequisite: Graduate standing in Horticulture.

A study of methods and procedure, outlining problems, assembling and analyzing data, and presenting results; critical review of research work. Staff.

Hort. 521, 522, 523. Research.

Prerequisite: Graduate standing in Horticulture.

Graduate students will be required to select problems for original research in fruit growing, vegetable growing, or floriculture. The work and presentation of results should be of such merit as to be worthy of publication. Staff.

Hort. 531, 532, 533. Seminar. 1-1-1

Assignment of scientific articles of interest to horticulturists for review and discussion. Staff.

INDUSTRIAL ENGINEERING

Under supervision of Mechanical Engineering Department until further notice.

Courses for Undergraduates

I. E. 101, 102, 103. Industrial Organization. 3-3-3

Required of sophomores in I. E.

Engineering methods in studies of industrial enterprises.

I. E. 201, 202, 203. Management Engineering. 3-3-3

Prerequisite: I. E. 103.

Required of juniors in I. E.

Principles of management, administration, production, and sales; executive control, industrial relations, incentives, normal capacities, standard costs, and pricing; budgeting and planning. Gilman: *Analyzing Financial Statements.*

Courses for Advanced Undergraduates

I. E. 301. Engineering Economics. 3 or 3 or 3

Prerequisite: Econ. 202 or 205.

Required of seniors in E. E., I. E., and in M. E., Furniture Option, elective for others.

Principles of investments, costs, and utility, with applications to engineering practice; choice of investments and replacements. Grant: *Principles of Engineering Economy, and Problems.*

I. E. 312, 313. Industrial Engineering Problems. 0-3-3

Prerequisites or concurrent: I. E. 201, 202, 203.

Required of seniors in I. E.

Detailed study of problems of moment in this rapidly developing field.

I. E. 322. Motion and Time Study. 0 3-0

Required of juniors in I. E., elective for others.

Prerequisite: I. E. 201 or junior standing.

Fundamentals of methods, involving motion and time, to reduce costs by finding "the one best way." Laboratory: Methods analysis, process and other charts, micromotion and timer techniques. Barnes: *Motion and Time Study.*

Courses for Graduates and Advanced Undergraduates

I. E. 402. The Electrical Industry. 0-3-0

Prerequisite: I. E. 301.

Required of seniors in E. E. and I. E.

The operation, practices, management, and performance of electric light and power companies and other electrical industries. Factors, indexes, and comparisons; services and prices; cost analyses and predeterminations.

I. E. 421, 422, 423. Public Utilities. 3-3-3

Prerequisite or concurrent: I. E. 301 or senior standing.

Elective for seniors or graduate students.

Public utilities and their regulation; services, rates, rate bases, returns, leading cases; current problems. Thompson and Smith: *Public Utility Economics.*

I. E. 433. Investigation and Report. 0-0-3

Prerequisite: I. E. 312.

Required of seniors in I. E.

Investigation of a selected and approved problem.

Courses for Graduates Only

I. E. 501, 502, 503. Industrial Engineering Research. 3-3-3

Prerequisite: Graduation in Engineering.

Investigation of a problem of major importance in the field of Industrial Engineering.

LANDSCAPE ARCHITECTURE

Courses for Undergraduates

L. A. 101, 102, 103. Arboriculture. 1-1-1

Required of freshmen in Landscape Architecture; elective for other students in Agriculture.

Culture of plant materials: their planting, transplanting, training, fertilization, protection from pests; tree surgery, lawn making.

Messrs. Pillsbury, Weaver.

Courses for Advanced Undergraduates

L. A. 201, 202, 203. Plant Materials: Woody Plants. 2-2-2

Prerequisite: Bot. 203.

Required of sophomores in Landscape Architecture and juniors in Floriculture; elective for students in other curricula.

Trees, shrubs, and vines: their distribution, form and habits of growth, size, texture, color, and other characteristics determining use in planting design. Mr. Randall.

L. A. 212, 213. Theory of Landscape Design. 0-3-3

Required of sophomores in Landscape Architecture; elective for students in other curricula.

Introduction to the study of landscape design; its theoretical basis; the meaning of taste; historic styles; elements, and landscape composition; planting design, and analyses of typical problems in landscape design.
Mr. Pillsbury.

L. A. 303. Plant Materials: Herbaceous Plants. 0-0-2

Required of juniors in Landscape Architecture; elective for students in other curricula. Prerequisite: Bot. 203.

Ornamental perennial and annual plants: height, habit of growth, texture, color, and other characteristics determining use in planting design.
Mr. Randall.

L. A. 311, 312. History of Landscape Design. 3-3-0

Prerequisites: L. A. 212, 213.

Required of juniors in Landscape Architecture.

History of the art of landscape design from antiquity to modern times; sketching from illustrations of design in important periods. Mr. Pillsbury.

L. A. 321, 322, 323. Landscape Design I. 4-4-4

Prerequisites: L. A. 311, 312.

Required of juniors in Landscape Architecture.

Problems in presentation, and in constructive design of small properties, gardens, and other special areas and suburban estates. Mr. Pillsbury.

L. A. 402. Ornamental Plants. 0-2-0

Prerequisite: Bot. 203.

Required of seniors in Vegetable Gardening and Pomology; elective for juniors or seniors in other curricula.

Ornamental trees, shrubs, and vines: their characteristics used in the design of planting for home, school. church, and community-center grounds, and farmstead landscapes. Mr. Randall.

L. A. 103. Landscape Gardening. 0-0-3

Prerequisites: L. A. 402, or 201, 202, 203.

Required of seniors in Vegetable Gardening, Floriculture, and Pomology; elective for seniors in all other curricula.

Landscape planning and planting design applied to the improvement of home, school, church, community-center grounds, and farmsteads; practice in methods of making measured surveys, mapping, and designing improvements and planting. Mr. Pillsbury.

L. A. 411, 412, 413. Planting Design. 3 3-3

Prerequisites: L. A. 201, 202, 203, and 303.

Required of seniors in Landscape Architecture.

Problems in composition with plant materials, presentation details, the preparation of planting plans, and cost data. Mr. Pillsbury.

L. A. 121, 422, 123. Landscape Design II. 4-4-4

Prerequisites: L. A. 321, 322, 323.

Required of seniors in Landscape Architecture.

Problems in presentation, and in the design of small parks and other public grounds, and institutional groups. Mr. Pillsbury.

L. A. 432. City Planning. 0-3-0

Required of seniors in Landscape Architecture; elective for seniors in all schools.

Origins and types of urban communities; modern city and town planning; legal, economic, social, and aesthetic phases and their interrelationships; fundamental data required; methods of planning and financing; zoning; city and regional planning legislation. Mr. Pillsbury.

L. A. 442. Suburban Design. 0-4-0

Prerequisite: L. A. 321, 322, 323, and 432.

The subdivision of land as related to suburban development and urban growth. Mr. Pillsbury.

L. A. 451, 452, 453. Landscape Construction. 2-2-2

Required of seniors in Landscape Architecture. Prerequisite: C. E. 224, 225, 226, and 227; and L. A. 321, 322, 323.

Problems in design of ground surface, walks, and drives; preparation of plans for grading and drainage; estimates of materials and costs, and methods of execution of landscape designs. Mr. Pillsbury.

L. A. 463. Office Practice. 0-0-1

Prerequisite: L. A. 451, 452, 453.

Arrangement of equipment, supplies, data, and illustrative and other material in landscape offices; methods of professional procedure, and professional ethics. Mr. Pillsbury.

MATHEMATICS

Courses for Undergraduates

***Math. 101. Algebra for Engineers.** 6-0-0

Required of freshmen in the School of Engineering, and in the Departments of Industrial Management, Industrial Arts, and Landscape Architecture.

Quadratic equations, the progressions, the binomial theorem, permutations and combinations, logarithms, the general theory of equations, the solution of higher equations, determinants and partial fractions. Fisher: *College Algebra.* Staff.

***Math. 102. Trigonometry for Engineers.** 0-6-0

Prerequisite: Math. 101.

Required of freshmen in the School of Engineering, and in the Departments of Industrial Management, Industrial Arts, and Landscape Architecture.

The trigonometric functions, derivation of formulae, the solution of plane and spherical triangles, with practical applications, slide rule, complex numbers, and hyperbolic functions. Clarkson and Bullock: *Plane and Spherical Trigonometry.* Staff.

* This course will be repeated the following term.

***Math. 103. Analytical Geometry.** 0-0-6

Prerequisites: Math. 101, 102.

Required of freshmen in the School of Engineering, and in the Departments of Industrial Management, Industrial Arts, and Landscape Architecture.

Loci of equations, the straight line, circle, parabola, ellipse, hyperbola, the general equation of the second degree, polar coördinates, transcendental curves, parametric equations, coördinates in space, planes and surfaces. Smith, Gale and Neelley: *Elements of Analytical Geometry.* Staff.

Math. 101. Algebra. Trigonometry. Analytical Geometry for Engineers (Supplementary for Transfer Students) 4 or 4 or 4

A course designed to meet the needs of students who have had algebra, trigonometry, and analytical geometry, but who do not have a sufficient number of credits for engineering. The course will include supplementary topics in algebra, trigonometry, and analytical geometry.

Math. 111, 112. Mathematics for Agriculture and Textile Students. 4-4 0

Fundamentals of algebra, trigonometric functions of acute agles, solutions of right triangles, logarithms, slide-rule, simple and fractional equations, graphs and graphical solutions of equations, percentages, ratio and proportion, areas and volumes of common solids, exponents, radicals and imaginary numbers, quadratic equations, simultaneous equations, progressions, the Binomial Theorem, simple and compound interest, elementary statistics, solutions of general triangles.

***Math. 113. Mathematics of Finance.** 0 0 4

Prerequisite: Math. 112.

Simple and compound interest, annuities, sinking funds and amortization, and the valuation of bonds and other applications. Smail: *Mathematics of Finance.* Staff.

***Math. 201. Calculus I.** 4 0-0

Prerequisite: Math. 103.

Required of sophomores in Engineering.

A course in the fundamental principles of the calculus, including the formulas for differentiation, and for integration of polynomial functions, with applications to geometry and to problems in rates, maxima and minima, curve tracing, curvature, areas, volumes, work, pressure, velocity and acceleration. Smith, Salkover, Justice: *Calculus.* Staff.

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* This course will be repeated the following term.

***Math. 202. Calculus II.** 0-4-0

Prerequisite: Math. 201.

Required of sophomores in Engineering.

A continuation of Calculus I. Methods of integration, and the study of the definite integral, with applications to problems in areas, volumes, lengths of arcs, surfaces, centroids, moments of inertia, radii of gyration, approximate integration. Smith, Salkover, Justice: *Calculus.* Staff.

***Math. 303. Calculus III.** 0-0-4

Prerequisite: Math. 202.

Required of sophomores in Engineering.

A continuation of Calculus II. Indeterminate forms, infinite series, expansion of functions, hyperbolic functions, partial differentiation, double and triple integrals, and differential equations. Smith, Salkover, Justice: *Calculus.* Staff.

Courses for Graduates and Advanced Undergraduates

Math. 431-a. Differential Equations. 3-0-0

Prerequisite: Math. 303.

Required of juniors in Electrical Engineering and elective for others.

Solution of standard types of equations; numerous examples in the field of Electrical Engineering. Kells: *Differential Equations.* Mr. Bullock.

Math. 131-b. Differential Equations. 3-0-0

Prerequisite: Math. 303.

Elective. Principally for students in Chemical Engineering.

A study of the equations that occur in Applied Chemistry. Much emphasis on graphic methods and numerical work. Phillips: *Differential Equations.* Mr. Winton.

Math. 432. Advanced Differential Equations for Electrical Engineers. 0-3-0

Prerequisite: Math. 431-a.

Elective.

A continuation of the work given in Math. 431-a. Series solutions, approximate methods, partial differentiatial equations, hyperbolic functions, and other topics will be studied with special emphasis on applications to problems in Electrical Engineering. Students not taking Electrical Engineering may register for the course and will be assigned individual problems in their particular field. Lecture notes. Mr. Bullock.

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* This course will be repeated the following term.

Math. 402. Graphical and Numerical Methods. 0-3 0

Prerequisite: Math. 303.

Elective.

Graphical and numerical approximate methods in differentiation, integration and the solution of both ordinary and differential equations. Theory of least squares and empirical curve fitting. Numerous examples in the fields of physics, electricity, mechanics, and engineering will be solved. Mackey: *Graphical Solutions.* Mr. Cell.

Math. 403. Vector Analysis I. 0-0-3

Prerequisite: Math. 431 (a or b).

Elective.

Different vector products; the calculus of vectors with applications to geometry and mechanics. Phillips: *Vector Analysis.* Mr. Clarkson.

Math. 411. Advanced Calculus for Engineers. 3 0 0

Prerequisite: Math. 431 (a or b).

Elective.

Hyperbolic functions, elliptic integrals and functions, partial differentiation of composite functions, differentiation of integrals, implicit functions. Applications to problems in engineering will be emphasized. Reddick and Miller: *Advanced Mathematics for Engineers.* Mr. Mumford.

Math. 412. Advanced Calculus for Engineers. 0-3-0

Prerequisite: Math. 431 (a or b).

Elective.

Power series, Gamma and Bessel functions, functions of a complex variable, line integrals. Applications to problems in engineering will be emphasized. Reddick and Miller: *Advanced Mathematics for Engineers.* Mr. Mumford.

Math. 413. Series for Engineers. 0-0-3

Prerequisite: Math. 431 (a or b).

Elective.

Fourier series, partial differential equations, with applications to problems in physics and engineering. Reddick and Miller: *Advanced Mathematics for Engineers.* Mr. Mumford.

** Math. 411, 412, 413, may be taken in any order.

Math. 421. Advanced Analytic Geometry. 3-0-0

Prerequisite: Math. 303.

Elective.

The elements of higher plane curves and the geometry of space. Snyder and Sisam: *Analytic Geometry.* Mr. Bullock.

Math. 422. Theory of Equations. 0-3-0

Prerequisite: Math. 303.

Elective.

The usual topics in the theory of equations, the solution of higher equations, exponential equations, logarithmic equations, and determinants. Dickson: *First Course in Theory of Equations.* Mr. Mumford.

Courses for Graduates Only

Math. 501. Applied Mathematics I. 3-0-0

Elective for graduate students only. Prerequisite: Math. 413 or the consent of the instructor.

The course will be arranged to fit the engineering interests of the students enrolled.

Catenary cables, straight-and-curved beam problems, theory of curve fitting, probability and applications, problems in the theory of elasticity, ballistics, vibration theory and problems, electrical circuits, Heaviside operational calculus and applications to electrical engineering and to other engineering problems, calculus of finite differences and applications. Lecture notes. Mr. Cell.

Math. 502. Applied Mathematics II. 0-3-0

Prerequisite: Math. 501.

Elective. For graduate students only.

A continuation of Math. 501. Lecture notes. Mr. Cell.

Math. 503. Applied Mathematics III. 0-0-3

Prerequisite: Math. 502.

Elective. For graduate students only.

A continuation of Math. 502. Lecture notes. Mr. Cell.

MECHANICAL ENGINEERING

Courses for Undergraduates

M. E. 101, 102, 103. Engineering Drawing I. 2-2-2

Required of freshmen in Textiles.

Drawing board work on lettering, projections, technical sketching, sections, pictorial drawings, working drawings, as related to textile machinery; tracing and blueprinting. French & Svenson: *Mechanical Drawing*. Leonard: *Lettering Exercises for Engineers and Draftsmen.*

Messrs. Briggs, Adams, Leonard, Hyde, Stinson.

M. E. 105, 106. Engineering Drawing II. 3-3-0

Required of freshmen in Engineering, Agricultural Engineering, and Landscape Architecture.

Drawing board work on lettering, instrument practice, geometrical construction, projections, technical sketching, sections, auxiliary projections, revolutions, pictorial drawings, fasteners, intersection, development, working drawings, tracing and blueprinting. French: *Engineering Drawing*. Leonard: *Lettering Exercises for Engineers and Draftsmen.*

Messrs. Briggs, Adams, Leonard, Hyde, Stinson.

M. E. 107. Descriptive Geometry. 0-0-3

Prerequisites: M. E. 105, 106.

Required of freshmen in Engineering, Agricultural Engineering, and Landscape Architecture.

Representation of geometrical magnitudes with points, lines, planes, and solids; concurrent noncoplanar forces; the solutions of problems. Warner: *Applied Descriptive Geometry.*

Messrs. Briggs, Adams, Leonard, Hyde, Stinson.

M. E. 121. Woodwork. 1 or 1 or 1

Required of freshmen in Textiles.

Use of bench tools, making cabinet joints, operation and care of woodworking machinery; correct methods of staining, varnishing, filling, and gluing various kinds of wood. Mr. Mendenhall.

M. E. 122. Foundry. 1 or 1 or 1

Required of sophomores in Ch. E., and freshmen in Textiles.

Demonstration and practice in molding and core making; cupola practice. Stimpson, Grey and Grennan: *Foundry Work.* Mr. Maddison.

M. E. 123. Forge Work. 1 or 1 or 1

Required of sophomores in A. E. and Ch. E., and freshmen in Textiles.

Hand forging of simple exercises, in mild steel, representative of industrial practice; identification and uses of ferrous metals; welding methods. Text: *Lecturer's Notes.* Mr. Cope.

M. E. 124. Pattern Making. 2 or 2 or 2

Required fo sophomores in Ae. E., I. E., and M. E.

Elementary joinery, finishing, theory of dry-kilning, wood-turning; lectures, demonstrations, and practice in hand work and machine methods; typical patterns and core boxes constructed, such as solid, split, and loose piece. Turner and Town: *Pattern Making.* Mr. Mendenhall.

M. E. 125. Foundry Practice. 2 or 2 or 2

Required of sophomores in Ae. E., I. E., and M. E.

Lectures, demonstrations, and practice in molding and core making, cupola operations; melting and casting of ferrous and nonferrous metals and their alloys; instructions and practice in the testing of molding sands. Wendt: *Foundry Work.* Mr. Maddison.

M. E. 126. Forging and Welding. 2 or 2 or 2

Required of sophomores in Ae. E., I. E., and M. E.

A study of the principles and practices of forging: hand forging as correlated with the industrial processes of hammering, rolling, and pressing. Lectures, demonstrations, and practice in forge, oxy-acetylene, and electric welding. Johnson: *Forging Practice.* Mr. Cope.

M. E. 128. Forge and Welding Practice. 3 0 or 3

Required of sophomores in E. E.

Hand forging of exercises in mild and tool steel correlated with the industrial methods of hammering, rolling and pressing; principles and modern practices; identification of ferrous metals; practice in forge, oxy-acetylene and electric welding. Campbell: *The Working, Heat Treating and Welding of Steel.* Mr. Cope.

M. E. 211, 212, 213. Machine Drawing. 2-2-2

Prerequisites: M. E. 105, 106, 107.

Drawing board work on piping drawing and valves; technical sketching; advanced problems in Applied Descriptive Geometry; welding, aircraft, and structural drawings; redesign problems, jigs and fixtures; charts and graphs; exercises in use of engineering tables; spur and bevel gears; cams; working drawings with tracing and blueprinting. French: *Engineering Drawing.* Mr. Adams.

M. E. 215, 216, 217. Elementary Mechanism. 1 1 1

Required of juniors in Electrical Engineering.

Drawing board work on linkages, cams, gears, belting, gear trains, and other simple mechanisms; working drawings of simple machines and parts, such as, motor bases and other electrical units. Keown & Faires: *Mechanism.* Messrs. Briggs, Adams, Hyde.

M. E. 224. Factory Layout and Equipment. 0-0-3

Prerequisites: M. E. 124, 125, 126.

Required of juniors in I. E.

To summarize and coördinate all previous shop courses and show their relation to manufacturing processes; the essential principles of machine-tool operation; machine tool selection and application for economic production. Roe and Lytle: *Factory Equipment.* Mr. Wheeler.

M. E. 225, 226. Machine Shop I. 1-1 0

Prerequisites: M. E. 121, 122, 123.

Required of juniors in Chem. Eng.

Practice in chipping, filing, scraping, and babbitting: general machine work, including straight and taper turning, drilling, shaper work, gear cutting and grinding. Turner: *Machine Tool Work.* Mr. Wheeler.

M. E. 227, 228, 229. Machine Shop II. 1-1-1

Prerequisites: M. E. 121, 122, 123, or M. E. 124, 125, 126.

Required of juniors in I. E. and M. E., and Yarn manufacturing.

Practice in laying out work, grinding tools, chipping, drilling, tapping, babbitting bearings, and scraping; machine work, including centering, straight and taper turning, chucking, screw cutting, shaper work, planer work, index milling, gear cutting and grinding. Turner: *Machine Tool Work.* Mr. Wheeler.

M. E. 235, 236. Metal Shop. 3-3-0

Prerequisite: Ed. 106.

Required in Industrial Arts.

Use of hand and machine tools in problems for secondary schools. Kaup: *Machine Shop Practice.* Mr. Wheeler.

M. E. 241, 242, 243. Oxy-Acetylene and Electric Welding. 1-1-1

Prerequisite: M. E. 123 or equivalent.

Elective.

Fundamental methods and principles of fusion welding: welding symbols, economic and metallurgical considerations, selection of method and type of welding. *Welding Handbook* of the American Welding Society. Mr. Cope.

M. E. 307, 308, 309. Engineering Thermodynamics I. 3-3-3

Prerequisites: Phys. 201, 202, 203, Math. 303.

Required of juniors in E. E., M. E., I. E., Ae. E., C. E., Cer. E., and Geol. Eng.

The study of heat as an engineering medium; combustion, heat transfer, and the laws governing energy transformations; use of the general energy equation dealing with gases, vapors, and mixtures; application of fundamental principles to design and performance of nozzles, steam engines and turbines, internal-combustion engines, refrigerating machines, and air compressors. Faires: *Applied Thermodynamics.* Messrs. Hoefer and Lowen.

M. E. 313, 314, 315. Mechanical Engineering Laboratory I. 1-1-1

Concurrent with M. E. 307, 308, 309.

Required of juniors in E. E., I. E., Cer. E., and M. E.

Calibrating pressure, temperature, speed, and power-measuring instruments; the testing of fuels, lubricants, pumps, compressors, steam engines and turbines, heating and ventilating equipment, hydraulic machinery, and internal-combustion engines. Rice: *Experimental Engineering.* Messrs. Bridges, Van Note, and Loewensberg.

M. E. 317, 318, 319. Kinematics and Elementary Design. 3-3-3

Prerequisites: E. M. 312, M. E. 211, 212, 213.

Required of juniors in M. E.

The relative motions, velocities, and accelerations of machine parts, including linkages, cams, gears, and other mechanisms. The elements of machine design, including the determination of design stresses, riveted and welded joints, bearings, belting and rope drives, and the design of basic machine parts. Sloan: *Engineering Kinematics.* Vallance and Doughtie: *Design of Machine Elements.* Messrs. Hoefer and Adams.

M. E. 321, 322, 323. Metallurgy. 3-3-3

Prerequisite: Physics 203.

Required of juniors in M. E. and A. E.

The constitution, structure and properties of engineering ferrous and non-ferrous metals and alloys; influences of mechanical working and heat treatment; physical testing; corrosion and its prevention. Sisco: *Modern Metallurgy for Engineers.* Mr. Van Note.

M. E. 350. Advanced Engineering Drawing. 0-3 or 3

Prerequisites: M. E. 105, 106, 107 and E. M. 302 or 313 or M. E. 101, 102, 103 and one of the following: Tex. 304, 311, 339, 382.

Elective: For advanced undergraduates.

Drawing board work as related to special problems in the various engineering and textile fields. The course will also include lectures, recitations, and nidividual conferences.

Mimeographed problem sheets and handbooks will be used. Mr. Briggs.
Conditioning Fundamentals. Messrs. Hoefer and Vaughan.

Courses for Graduates and Advanced Undergraduates

M. E. 401, 402, 403. Power Plants. 3 3 3

Prerequisites: M. E. 307, 308, 309 and M. E. 313, 314, 315.

Required of seniors in Mechanical Engineering I.

Fuels and combustion; heat balance, steam boilers, prime movers, and auxiliaries, as applied to power generation. Morse: *Power Plant Engineering and Design.* Mr. Vaughan.

M. E. 404. Heating and Air-Conditioning I. 0-3-0

Prerequisites: M. E. 307, 308, 309.

Required of seniors in Mechanical Engineering I.

Principles of heating and ventilation; warm air, steam, and hot-water heating systems; air-conditioning. Severns: *Heating, Ventilating, and Air-Conditioning Fundamentals.* Messrs. Hoefer and Rice.

M. E. 405. Refrigeration. 0-0-3

Prerequisites: M. E. 307, 308, 309.

Required of seniors in Mechanical Engineering I.

Theory of refrigeration; types of ice-making and refrigerating machinery; cooling for air conditioning; installation, management, and cost of operation. Sparks: *Mechanical Refrigeration.*

Messrs. Vaughan and Hoefer.

M. E. 407, 408, 109. Mechanical Engineering Laboratory II. 1-1-1

Prerequisites: M. E. 313, 314, 315.

Required of seniors in Mechanical Engineering I.

Advanced study and tests in the fields of power plants, air-cooled and liquid cooled internal-combustion engines, heating and ventilation, metallurgy, fluid flow, compressed air, fuels and combustion, and lubrication. Rice: *Experimental Engineering.* Messrs. Bridges and Van Note.

M. E. 111, 112, 113. Machine Design. 3 3-3

Prerequisites: M. E. 317, 318, 319, E. M. 322.

Required of seniors in M. E. I.

A continuation of M. E. 319. The design of machine members, including screws, keys, shafts, couplings, clutches, brakes, springs, gearing, frames, flywheels, etc.; the dynamics of machinery and engines. Mr. Hoefer.

M. E. 421, 422, 423. Internal-Combustion Engines. 3-3-3

Prerequisites: M. E. 307, 308, 309.

Required of seniors in Aeronautical Engineering.

Thermal and mechanical characteristics of internal-combustion engines; with special reference to the design, construction, operation and performance of automotive, aircraft and Diesel engines and their accessories. Lichty, *Internal Combustion Engines;* current periodicals.

Messrs. Rice and Lowen.

M. E. 425, 426, 427. Internal Combustion Engines Laboratory. 1-1-1

Prerequisites: M. E. 307, 308, 309.

Concurrent with M. E. 401, 402, 403 or M. E. 421, 422, 423.

Advanced study and testing of internal-combustion engines; their auxiliaries, and the materials used in their construction; fuels and lubricants. Rice: *Experimental Engineering.* Messrs. Bridges and Rice.

M. E. 431, 432, 433. Welding, Theory and Practice. 2-2-2

Prerequisites: M. E. 123 or equivalent.

Required of seniors in Mechanical Engineering III.

A study of the fundamental gas and electric welding processes including equipment, materials and procedure. Special attention will be paid to the factors affecting welding and welds including control of residual stresses, shrinkage and warpage, and weldability of metals. Fundamentals in the techniques of gas, D. C. and A. C. Welding. *Handbook of the American Welding Society.* Mr. Cope.

M. E. 441, 442, 443. Physical Metallurgy. 3 3-3

Prerequisites: M. E. 322, 323.

Required of seniors in Mechanical Engineering III.

Phase rule and its industrial applications; hardenability, carburizing; grain size control; reactions in the solid state; surface reaction processes; significance and inter-relation of static and dynamic properties; effects of temperature upon physical properties; current technical literature.

Mr. Van Note.

M. E. 451, 452, 453. Heating and Air-Conditioning II. 3-3-3

Prerequisites: M. E. 307, 308, 309 and M. E. 313, 314, 315.

Required of seniors in Mechanical Engineering II.

Principles of heating, ventilation, and refrigeration as applied to air-conditioning; design and operation of air-conditioning systems. Allen and Walker: *Heating and Air Conditioning.* Messrs. Rice and Vaughan.

M. E. 455, 456, 457. Heating and Air-Conditioning Lab. 1-1 1

Prerequisites: M. E. 313, 314, 315.

Required of seniors in Mechanical Engineering II.

Testing heating and air-conditioning units, systems and controls; testing refrigerating equipment, ducts, methods of air distribution, fuel-burning equipment, dust-control equipment, heat-resisting materials. *American Society of Heating and Ventilating Engineers' Guide.* Mr. Rice.

M. E. 458, 459. Heating and Air-Conditioning Design. 0 3-3

Prerequisites: M. E. 307, 308, 309 and M. E. 313, 314, 315.

Required of seniors in Mechanical Engineering II.

Design calculations from given conditions for a heating plant and an air-conditioning system; materials listed and cost of installation estimated. *American Society of Heating and Ventilating Engineers' Guide.*

Messrs. Rice and Vaughan.

M. E. 461, 462, 463. Experimental Engineering. 3-3-3

Prerequisites: M. E. 313, 314, 315 or equivalent as approved by faculty group.

Advanced engineering principles applied to a specific project dealing with heat, power, hydraulic machinery, metallography, aerodynamics, or general experimental work. A seminar period provided, and a written report required. Messrs. Rice, Van Note, Vaughan, and Wheeler.

Courses for Graduates Only

M. E. 501, 502, 503. Advanced Engineering Thermodynamics. 3-3-3

Prerequisites: M. E. 307, 308, 309 and M. E. 407, 408, 409.

Development of the thermodynamic equations and their application to advanced engineering problems. Messrs. Hoefer and Rice.

M. E. 505, 506, 507. Internal-Combustion Engine Design. 3-3-3

Prerequisites: M. E. 421, 422, 423 and 407, 408, 409.

A thorough study of the field of internal-combustion engines; design of an engine to meet specific requirements. Pye: *Internal-Combustion Engines* Vol. I and II. Mr. Rice.

***M. E. 513, 514, 515. Power Plant Design.** 3-3-3

Prerequisites: M. E. 401, 402, 403 and M. E. 307, 308, 309.

The design of a plant to fulfill conditions obtained by investigation and research; specifications for design and installation.

Messrs. Hoefer and Vaughan.

***M. E. 517, 518, 519. Design of Heating and Ventilating System.** 3-3-3

Prerequisites: M. E. 404 or M. E. 451, 452, 453 and M. E. 407, 408, 409.

The design of a heating system for specific conditions; specifications for installation; performance tests of heating equipment.

Messrs. Hoefer and Vaughan.

M. E. 521, 522, 523. Mechanical Engineering Research. 3-3-3

Prerequisites: M. E. 401, 402, 403 and M. E. 404.

Research and thesis in connection with M. E. 513, 514, 515 or M. E. 517, 518, 519 or M. E. 505, 506, 507. Graduate Staff.

M. E. 525, 526, 527. Mechanical Engineering Seminar. 1-1-1

Faculty and graduate student discussions centered around current research problems and advanced engineering theories and developments.

Graduate Staff.

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* Only one of these courses to be offered during any College year.

MILITARY SCIENCE AND TACTICS

Military 101, 102, 103.

Military Science I. (Branch Immaterial.)

This, the first year basic course, is required of all physically fit male freshmen. Details of course not yet announced by the War Department.

Military 201, 202, 203.

Military Science II. (Branch Immaterial.)

This, the second year basic course, required of all physically fit male sophomores who have completed Military Science I. Details of course not yet announced by the War Department.

Military 301, 302, 303.

Military Science III. (Infantry.)

This, the first year advanced course, is open to selected juniors who have satisfactorily completed Military Science II, and to selected veterans who have had a year or more of active service and who have not less than two complete school years remaining before graduation. Details of course not yet announced by the War Department.

Military 311, 312, 313.

Military Science III. (Signal Corps.)

This first year advanced course is open to selected students who are enrolled in the School of Electrical Engineering, and who meet the require ments of 301, 302, 303. Details of course not yet announced by the War Department.

Military Science 401, 402, 403.

Military Science IV. (Infantry.)

Prerequisite: Military Science III.

This, the second year advanced course, is required of all students who have satisfactorily completed Military Science III, and who are not taking Military Science IV Signal Corps. Details of course not yet announced by the War Department.

Military 411, 412, 413.

Military Science IV. (Signal Corps.)

Prerequisite: Military Science III (Signal Corps).

To enroll in this, the second year advanced course (Signal Corps), the student must be enrolled in the School of Electrical Engineering. Details of course not yet announced by the War Department.

MODERN LANGUAGES

Basic Courses

French

***M. L. 101, 102. Elementary French.** 3 3-0 or 0-3-3

Lectures on the structure, diction, pronunciation; and other matters of technique of the language, supplemented by easy readings and translations. Individual reports and conferences. No previous training in the language necessary. Mrs. Hall.

***M. L. 201. Elementary French Prose.** 3 or 3 or 3

Prerequisites: M. L. 101, 102 or equivalent.

Reading and translation of easy French; lectures on structure of the language, diction, and pronunciation; choice in parallel reading material, a matter of individual need. Individual reports and conferences.

Mr. Ballenger and Mrs. Hall.

M. L. 202. Intermediate French Prose. 3-0-0

Prerequisite: M. L. 201 or equivalent.

A study of prose reading material, largely historical in nature. Attention given to the acquisition and extension of the student's basic vocabulary. Individual translation, parallel readings, and reports. Mr. Ballenger.

German

***M. L. 103, 104. Elementary German.** 3-3-0 or 0-3-3

Lectures on the structure and technique of the language, supplemented by easy readings and translations. Individual reports and conferences. Mr. Hinkle.

***M. L. 203. Elementary German Prose.** 3 or 3 or 3

Prerequisites: M. L. 103, 104 or equivalent.

Reading and translation of easy German, supplemented with lectures on the structure and idiom of the language. The student's choice of parallel reading material, a matter of individual need. Individual reports and conferences. Mr. Hinkle and Mrs. Hall.

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* Two years of high-school work will ordinarily be considered the equivalent of M. L. 101, 102, and 201; and of 103, 104, and 203.

M. L. 204. Intermediate German Prose. 3 0-0

Prerequisites: M. L. 203 or equivalent.

A study of prose reading material, largely historical in nature. Attention given to the acquisition and extension of the student's basic vocabulary. Individual translations, parallel readings and reports. Mr. Hinkle.

Spanish

"M. L. 105, 106. Elementary Spanish. 3 3 0 or 0-3-3

Lectures on the structure, diction, pronunciation, and other matters of technique of the language, supplemented by easy readings and translations. Individual reports and conferences. No previous training in the language necessary. Messrs. Ballenger and Hinkle.

"M. L. 205. Elementary Spanish Prose. 3 or 3 or 3

Prerequisites: M. L. 105, 105, or equivalent.

Reading and translation of essay Spanish; lectures on the structure of the language, diction and pronunciation. The student's choice of parallel reading material, a matter of individual need. Individual reports and conferences. Mr. Ballenger and Mr. Hinkle.

M. L. 206. Intermediate Spanish Prose. 3-0-0

Prerequisite: M. L. 205 or equivalent.

A study of prose reading material, largely historical in nature. Attention given to the acquisition and extension of the student's basic vocabulary. Individual translations, parallel readings, and reports. Mr. Ballenger.

ENGLISH FOR FOREIGN STUDENTS

M. L. 107, 108, 109. Elementary English. 3-3-3

In this course special emphasis is placed upon the acquisition o a practical knowledge of English grammar, including idiomatic expressions, spelling, and vocabulary; practice is given in accurate pronunciation and enunciation. In the written work required, particular emphasis is placed upon punctuation, choice of words, paragraphing, and the organization of simple and practical material. Mr. Hinkle and Mrs. Hall.

M. L. S-1. Oral Composition. 0-0 0

The principal objective of this course is that of broadening the student's vocabulary and improving his pronunciation and enunciation. Practice in speaking is emphasized and individual oral reports are required. Much time is spent on English sounds which present especial difficulty to foreigners. Mastery of such sounds before the end of the course is the ideal of attainment. Mr. Hinkle and Mrs. Hall.

M. L. S-2. Reading for Comprehension. 0 0-0

The basis for this course is the reading of classic and current literature which will give the student an insight into and a clear understanding of the cultural background of the United tSates, including its traditions, history, educational system, and political practices. Emphasis is placed on daily oral or written reports paraphrasing the material read. Oral reading exercises are given in which the student is required to reproduce the written page in an understandable and expressive manner.

Mr. Hinkle and Mrs. Hall.

**Technical and Scientific Courses

Translation Service. A special feature of the work of the Modern Language department is that of the Translation Service. This work is conducted as an aid to research, on the one hand, and a means to the acquisition of a reading knowledge of the respective language, on the other. Through this service advanced undergraduate students and graduate students registered in technical and scientific courses are given the opportunity of working a translation project in connection with their field of major interest. When such project is satisfactorily completed, it is accepted in lieu of an examination as evidence of reading ability. This procedure is recommended as the preferable method of preparation for the acquisition of a reading knowledge of the language concerned. Revised copies of these projects are deposited in our local library and made available to investigators in other institutions through the medium of the American Documentation Institute.

M. L. 301. Technical French. 0-3-0

Prerequisite: M. L. 202 or equivalent.

Readings and translations of relatively simple technical material, supplemented by lectures on terminology, vocabulary analysis, and other linguistic technique. Designed to meet the needs of students whose interest in the language is primarily that of reading ability. Choice of reading material adjusted to individual needs; may be taken by students of varying degrees of previous linguistic training. Mr. Ballenger.

M. L. 302. Introductory Scientific French. 0-0-3

Prerequisite: M. L. 202 or equivalent.

A study of scientific French of intermediate difficulty, supplemented with lectures on terminology and other linguistic technique. The needs of students whose interest is that of the acquisition of a reading knowledge of the language, constantly kept in view. Basic technique of translation explained and demonstrated by means of personal conferences.

Mr. Ballenger and Mrs. Hall.

** Students registered in advanced technical and scientific courses are given the opportunity of doing a translation project in connection with the Translation Service of the department. When such prospect is satisfactorily completed and accepted, it may be substituted in lieu of an examination as evidence of reading ability. This procedure is recommended as the preferable method of preparation for the acquisition of a reading knowledge of the language concerned.

M. L. 303. Technical German. 0-3-0

Prerequisite: M. L. 204 or equivalent.

Reading and translations of relatively simple technical German, supplemented by lectures on terminology, word order, vocabulary analysis and other linguistic technique. Designed to meet the needs of students whose interest in the language is primarily that of reading ability. Choice of reading material adjusted to individual needs; may be taken by students of varying degrees of previous linguistic training. Mr. Hinkle.

M. L. 304. Introductory Scientific German. 0-0-3

A study of scientific German of intermediate difficulty supplemented with lectures on terminology and other linguistic technique. The needs of students whose interest is that of the acquisition of a reading knowledge of the language, constantly kept in view. Basic technique of translation explained and demonstrated by means of personal conferences.

Mr. Hinkle and Mrs. Hall.

M. L. 305. Technical and Industrial Spanish. 0-3-0

Prerequisite: M. L. 206 or equivalent.

A study of technical and industrial literature. Particular attention given to the special terminology characteristic of such literature with a view to the acquisition of a practical vocabulary. Individual conferences and reports. Mr. Ballenger.

M. L. 306. Introductory Scientific Spanish. 0-0-3

Prerequisite: M. L. 206 or equivalent.

Readings and translations of relatively simple scientific Spanish, supplemented by lectures on terminology, vocabulary analysis, and other linguistic technique. Designed to meet the needs of students whose interest in the language is primarily that of reading ability. Choice of reading material adjusted to individual needs; may be taken by students of varying degrees of previous linguistic training. Mr. Ballenger.

M. L. 401, 402, 103. Advanced Scientific French. 3 3 3

Prerequisite: M. L. 301 or 302 or equivalent.

A study of scientific literature appearing in current bulletins, magazines and technical journals. Students given the opportunity of working a translation project in connection with their subject of major interest. Special attention given to the comprehension of the thought of the article under consideration and its accurate rendition into English. Parallel readings, reports and conferences. Messrs. Hinkle and Ballenger.

M. L. 104, 405, 406. Advanced Scientific German. 3-3-3

Prerequisite: M. L. 303 or 304 or equivalent.

A study of scientific literature appearing in current bulletins, magazines, and technical journals. Students given the opportunity of working a translation project in connection with their subject of major interest. Special attention given to the comprehension of the thought of the article under consideration and its accurate rendition into English. Parallel readings, reports, and conferences. Mr. Hinkle and Mrs. Hall.

M. L. 107, 408, 109. Advanced Scientific Spanish. 3 3-3

Prerequisite: M. L. 305 or 306 or equivalent.

A study of scientific literature appearing in current bulletins, magazines, and technical journals. Students given the opportunity of working a translation project in connection with their subject of major interest. Special attention given to the comprehension of the thought of the article under consideration and its accurate rendition into English. Parallel readings, reports, and conferences. Mr. Ballenger and Mrs. Hall.

General Courses

M. L. 410. Masterpieces of French Literature. 3 0-0

Prerequisite: Junior or Senior Standing.

The study of outstanding masterpieces of French literature. A brief outline of French literary development. Parallel reading either in translation or in French. An open elective. No language prerequisites.

Mr. Hinkle.

M. L. 111. Masterpieces of German Literature. 0 3-0

Prerequisite: Junior or Senior Standing.

The study of outstanding masterpieces of German literature. A brief outline of German literary development. Parallel readings either in translation or in German. An open elective. No language prerequisites.

Mr. Hinkle.

M. L. 412. 413. Masterpieces of Spanish Literature. 0-3-3

Prerequisite: Junior or Senior Standing.

The study of outstanding masterpieces of Spanish literature. A brief outline of Spanish literary development. Parallel readings either in translation or in Spanish. An open elective. No language prerequisites.

Mr. Hinkle.

M. L. 414, 415. French, German and Spanish Civilization. 3-0 3

Prerequisite: Junior or Senior Standing.

Lectures and reports on the manners and customs of the respective cultures under consideration. Fall Term devoted to their development in Europe; Spring Term devoted to Latin America. Topics, such as racial stocks, people, social classes, governments, politics and education given special consideration. Parallel readings. reports, and conferences. An open elective. No language prerequisites. Mr. Hinkle.

M. L. 416. The Development of Language. 3 or 3 0

Prerequisite: Junior or Senior Standing.

The various phases of linguistic growth as a basis for intelligent language appreciation. Origin of language, linguistic change, grammatical categories, dialects, standard language, word order, inflection, isolation, agglutination, etymology, and other linguistic processes given special consideration. Parallel readings, reports, and conferences. An open elective. No language prerequisites. Mr. Hinkle.

M. L. 417. Masterpiece of Foreign Literature. 3-0 or 3

Prerequisite: Junior or Senior Standing.

A study of outstanding literary productions in each of the various types of literature, and lectures on their cultural background. Designed primarily to meet the needs of students who wish to supplement their knowledge of their own literature with a survey of the literature of other civilizations. Special attention is given to the literary monuments of France, Germany, Spain, and Italy. No foreign language prerequisites are necessary. Daily reports and conferences. Mr. Hinkle.

PHYSICAL EDUCATION AND ATHLETICS

Courses and Activities

P. E. 101, 102, 103. Physical Education and Hygiene. 1 1 1

Required of all freshmen except those excused on the recommendation of the College physician.

Individual health and physical efficiency of each student based on standardized athletic, gymnastic, and efficiency tests. Lectures on personal hygiene required in one term only. Mr. Miller and Staff.

P. E. 201, 202, 203. Physical Education. 1-1-1

Prerequisites: P. E. 101, 102, 103.

Required of all sophomores except those excused upon recommendation of the College physician.

Election is permitted in popular sports for healthful exercise and a fair degree of skill in them. Mr. Miller and Staff.

P. E. 111, 112, 113. Physical Education. 1-1-1

Required of all freshmen excused from P. E. 101, 102, 103.

Special activities for those students who cannot meet the requirements of the regular course because of physical handicap. Mr. Miller and Staff.

P. E. 211, 212, 213. Physical Education. 1-1-1

Required of all sophomores excused from P. E. 201, 202, 203.

Special activities for those students who cannot meet the requirements of the regular course because of physical handicap. Mr. Miller and Staff.

P. E. 301, 302, 303. Theory and Practice of First Aid. 1 or 1 or 1

Elective for juniors and seniors.

Hours by arrangement.

Anatomy and physiology sufficiently to proceed with bandages, dressings, wounds, shock, injuries to bones, joints, muscles, poisons, unconsciousness, artificial respiration, and common emergencies. Students completing the course are awarded the American Red Cross Certificate. Staff.

P. E. 401. Social Recreation. 0-0-3

Elective for juniors and seniors in Agr. Educ.

Purpose: To prepare teachers of agriculture to assume leadership in social and recreational activities. The organization, supervision, and practice work in athletic and social activities for parties, picnics, campus banquets, and similar occasions. Mr. Miller.

PHYSICS

Courses for Undergraduates

Phys. 111, 112, 113. Physics for Textile Students. 4-4-4

Required of freshmen in Textiles.

Industrial Physics, with emphasis on practical applications to the textile industry. Black: *College Physics*. Messrs. Hopkins, Lynn and Lancaster.

Phys. 115. Physics for Agricultural Students. 5 or 5 or 5

Required of sophomores in Agriculture.

Elements of machines; physics of heat and weather; applications of light and electricity on the farm. Henderson: *The New Physics of Everyday Life.*

Messrs. Heck, Bartlett.

Phys. 123. Descriptive Astronomy. 0-0-3

Elective.

An elementary nonmathematical survey of the sun, planets, and stars; observations with telescope. Baker: *Introduction to Astronomy.*

Mr. Heck.

Phys. 201, 202, 203. Physics for Engineers. 4-4-4

Prerequisite: Math. 103.

Required of sophomores in Engineering.

General Physics, with emphasis on problems and engineering applications. Hausman and Slack: *Physics.*

Messrs. Heck, Derieux, Meares, Lancaster, Bartlett, Hopkins, Brown, Lynn.

Phys. 306. Electron Tubes and Their Application to Industry.

Prerequisites: Phys. 113 or 203. Math. 103.

Elective.

Properties of electrons and electron emitters; gaseous conduction; thermionic and photoelectric tubes, theory and applications. Mr. Hopkins.

Phys. 311. Light in Industry. 3 0 or 3

Prerequisite: Phys. 113 or Equivalent.

Required of Textile students: elective for other students.

Fundamentals of light, illumination, and color; psychology of color; standardized color theory; pigments, contrast, and harmony.

Text: *Light and Color in Industry.* Mr. Lancaster.

Phys. 322. Meterology. 0-3-0

Required of juniors in Forestry; elective for other students.

Causes of weather change; methods of forecasting; peculiarities of the weather of North Carolina. Blair: *Weather Elements.* Mr. Heck.

Phys. 332. Photography. 3 or 3 or 3

Prerequisite: Phys. 113 or equivalent.

Elective.

A general study of cameras, lenses, exposure, development, printing, types of emulsion, color sensitivity and color filters. Boucher: *Fundamentals of Photography.* Messrs. Meares and Bartlett.

Phys. 402, 403. Mechanics. 0-3-3 or 0-4-4

Prerequisites: Phys. 203. Math. 303.

Elective.

The physical principles of mechanics. Edser: *Physics for Students.* Mr. Meares.

Phys. 405, 406. Electricity and Magnetism. 3-3-0 or 4-4-0

Prerequisites: Phys. 203. Math. 303.

Elective.

Fundamental principles in a more specialized but intermediate manner. Laboratory, if taken, increases the course to 4 credits. Gilbert: *Electricity and Magnetism.* Mr. Lancaster.

Phys. 407. Elementary Modern Physics. 3 or 3 or 3

Prerequisites: Phys. 203, Math. 303, Chem. 211.

Required of juniors in E. E. and seniors in Ch. E.

New theories and discoveries in Physics, such as: the electron, atomic structure, spectra, X-rays, crystal structure, quantum theory, radiation, radio-activity, isotopes and cosmic rays. Brown: *Foundations of Modern Physics.* Mr. Derieux.

Phys. 413. Acoustics. 0-3-0

Prerequisites: Phys. 203. Math. 303.

Elective.

Production, propagation, transmission, and reception of sound, with special applications to architectural and electrical transmission problems. Olson: *Elements of Acoustical Engineering.* Mr. Lynn.

Phys. 415, 416. Light. 0-3-3 or 0-4-4

Prerequisites: Phys. 203 or 207. Math. 303.

Elective.

Introduction to principles of geometrical and physical optics. Edser: *Light for Students.* Mr. Derieux.

Phys. 417. Heat. 3-0-0

Prerequisites: Phys. 203 or 207. Math. 303.

Elective.

Temperature measurement, specific heats, thermal expansion, conduction, radiation, kinetic theory, change of state, thermodynamics, low temperatures, high temperatures. Cork: *Heat.* Mr. Bartlett.

Phys. 426. Spectroscopy in Industry. 0-3-0 or 0-4-0

Prerequisites: Phys. 203. Chem. 212.

Fundamental principles of light; spectroscopic equipment; spectra; qualitative analysis of composition by emission spectra; detection of impurities; quantitative analysis; absorption spectra; industrial applications, lectures, demonstrations, and laboratory. Lewis: *Spectroscopy in Science and Industry;* Brode: *Chemical Spectroscopy.* Mr. Derieux.

Phys. 427, 428, 429. Optics. 3-3-3 or 4 4-4

Prerequisite: Phys. 203, Math. 303.

Lenses and lens system, optical instruments, gratings, interferometers, spectra. Laboratory if taken gives 4 credits. Mr. Derieux.

Phys. 443. History of Physics. 0 0 3

Prerequisite: One course in College Physics.

Elective.

Development of Physics from its beginnings to the present time. Crew: *Rise of Modern Physics.* Mr. Heck.

Phys. 445, 446, 447. Research. 3-3-3

Prerequisite: Phys. 203 or 207 or 213.

Elective.

Undergraduate research given according to the student's ability.

Mr. Heck.

Phys. 451, 452, 453. Physics Colloquium. 3-3-3

Current research reviewed by department and advanced students; meets weekly at night throughout the year. Mr. Heck.

Phys. 463. Industrial X-Rays. 0-0-3

Prerequisites: Phys. 203, Math. 303.

Theory and practice of X-rays in industry; X-ray equipment; photographic procedure; detection of defects in welds, castings, assemblies, stresses in members and fibers and crystal analysis demonstrations and student manipulation in each phase. Clark: *Applied X-rays.* St. John: *Industrial Radiography.* Staff.

Phys. 514, 515, 517. Advanced Theory of Electricity and Magnetism. 3-3-3

Prerequisites: Phys. 203, Math. 301.

Theorem of Gauss, energy in media, boundary conditions, condensers, electrometers, dielectric constants, migration of ions, thermodynamics of reversible cells, thermoelectricity, magnetic circuits, growth and decay of currents, oscillatory discharge. Starling: *Advanced Theory of Electricity and Magnetism.* Staff.

Phys. 522. Discharge of Electricity in Gases. 0-3-0

Prerequisites: Phys. 213, Math. 203.

Production of ions in gases, motion of ions, velocity in an electric field, diffusion, recombination, determination of atomic charge, ionization by collision, discharge tubes, cathode rays, positive rays, and X-rays. Crowther: *Ions, Electrons, and Ionizing Radiations.* Mr. Derieux.

Phys. 525. Atomic Structures. 3-0-0

Prerequisite: Phys. 312.

Elective.

Bohr's model, spectral formula, elliptical orbits, fine structure of spectral lines, Stark effect, Zeeman effect, Roentgen rays, Moseley's law, periodic system, isotopes, radioactivity, atomic nuclei, ionization, spectra and atomic structure, fluoroscence, atomic magnetism. White: *Atomic Spectra.* Haas: *Atomic Structures.* Staff.

Phys. 531, 532, 533. Research. 3-3-3

Graduate students sufficiently prepared may undertake research in some particular field of Physics. At least six laboratory hours a week must be devoted to such research. Messrs. Heck and Derieux.

POULTRY

Courses for Undergraduates

Poul. 101. General Poultry. 4 or 4
Fundamental principles of poultry production. Staff.

Poul. 301. Poultry Judging. 4-0-0
Prerequisite: Poul. 101.
Required of juniors in Poultry Production; elective for others.
Mr. Williams.

Poul. 303. Incubation and Brooding. 0-0-4
Prerequisites: Phys. 115, Poul. 101.
Required of juniors in Poultry Production; elective for others.
Principles of incubation and brooding; feeding, housing, and rearing baby chicks. Mr. Williams.

Poul. 311. Poultry Anatomy and Physiology. 3-0 0
A foundation for courses in poultry diseases and nutrition.
Mr. ————

Poul. 322. Poultry Production. 0-4-0
Prerequisite: Poul. 101.
Developed for vocational teachers of agriculture. Elective for others.
Poultry disease problems; nutritional problems; judging methods.
Messrs. Dearstyne and Williams.

Poul. 332. Preparation and Grading of Poultry Products. 0-3-0
Prerequisite: Poul. 101.
Commercial fattening; grading and marketing eggs; refrigerating and storage; markets. Mr. Williams.

Poul. 333. Poultry Nutrition. 0-0-4
Prerequisites: Chem. 201, Zool. 101 and 102, Poul. 101.
Feeds and feeding: Physiology of digestion, absorption, and elimination; mineral and vitamin requirements. Mr. ————

Poul. 342. Turkey Production. 0-3-0

Prerequisites: Poul. 101, Zool. 411.

Selection and mating; incubation: brooding poults; nutrition; grading and marketing. Mr. Nesbit.

Courses for Advanced Undergraduates

Poul. 401, 402. Poultry Diseases. 4-4-0

Prerequisites: Poul. 101, Zool. 102, Poul. 401 prerequisite to Poul. 402.

Sanitation, parasite infestations and control, contagious and noncontagious diseases. Mr. Dearstyne.

Poul. 403. Sero-Diagnosis in Poultry Diseases. 0 0-3

Prerequisites: Poul. 401, 402, Bot. 402.

Basic immunological theory and technique; its application in the therapy and diagnosis of poultry disease. Mr.

Poul. 412. Commercial Poultry Production. 0-3-0

Prerequisite: Poul. 201.

Development and maintenance of a commercial plant; custom hatching, and commercial incubation; cost of production. Mr. Williams.

Poul. 113. Poultry Breeding. 0-0-3

Prerequisites: Poul. 201, Genetics, Zool. 411.

Methods of recognition and selection for mating from both standard and utility standpoints; study of progeny performance. Mr. Dearstyne.

Poul. 423. Senior Seminar. 0-0-4

Required of seniors in Poultry. Staff.

Courses for Graduates Only

Poul. 501, 502, 503. Poultry Histology. 3-3-3

Prerequisites: Poul. 311, 312, 401, 402, Zool. 461.

General histology of the tissues, special histology of the various systems of the body. Mr. ———————

Poul. 511, 512, 513. Poultry Pathology. 3-3-3

Prerequisites: Poul. 311, 312, 401, 501, 502, 503.

Various disease processes. Mr. ————————

Poul. 521. Poultry Physiology. 3-0-0

Prerequisites: Poul. 311, 312, 401, 402, 501, 502.

Histology and pathology, emphasizing the effects of diseases on normal physiology. Mr. ————————

Poul. 531, 532, 533. Poultry Research. 3-3-3

Prerequisite: Eighteen term credits in Poultry.

Problems in Poultry nutrition, diseases, marketing, and breeding to be conducted as definitely outlined by the Department. Staff.

Poul. 541, 542, 543. Seminar. 3-3-3

Prerequisite: Eighteen credit hours in Poultry. Staff.

Poul. 551, 552, 553. Production Studies and Experiments. 3-3-3

Prerequisites: Poul. 201, 333, 401, 402.

Problems in poultry nutrition, and breeding, and in commercial poultry production and marketing. Staff.

PSYCHOLOGY

Courses for Undergraduates

Psychol. 200. Introduction to Psychology. 3 or 3 or 3

A study of the general characteristics and development of human behavior, emphasizing the problems of motivation, emotion, learning, and thinking. Mr. Moffie.

Psychol. 201. Elementary Experimental Psychology. 3-0-0

Introduction to experimental psychology. One lecture and two laboratory periods per week. Mr. Moffie.

Psychol. 202. Psychology of Personality and Adjustment. 0 3-0

Prerequisite: Psychology 200.

A study of the factors involved in the development of the normal personality. Mr. Moffie.

Psychol. 303, 304. Educational Psychology. 3-3-0

Required of students in Education; elective for others.

Applications of psychology to education; problems of learning, motivation, interests; the measurement of educational efficiency; mental hygiene. Mr. Moffie.

Psychol. 337, 338. Industrial Psychology. 0-3-3

Prerequisite: Psychology 200.

The application of psychological principles to the problems of modern workers, industrial learning, methods of work, monotony, fatigue, illumination, accidents, morale of workers. Mr. McGeehee.

Psychol. 390. Social Psychology. 0-0-3

Prerequisite: Psychology 200.

Social applications of psychology: social stimulation, response, and attitudes. Mr. McGehee.

Courses for Advanced Undergraduates and Graduates

Psychol. 411. Rural Social Psychology. 3-0-0

For description of this course, see Rural Sociology 411. Mr. McGehee.

Psychol. 470, 471, 472. Psychodiagnostic Techniques. 3-3-3

Prerequisite: Six hours in Psychology.

Techniques of measuring intelligence, personality, aptitudes, and achievement. Practice in administration and interpretation of psychological tests. Messrs. McGehee, Moffie.

Psychol. 476. Psychology of Adolescence. 0-0-3

Prerequisites: Ed. 303, 304, or six credits in Psychology.

Mental growth, social development, and interests of adolescent boys and girls. Mr. Moffie.

Psychol. 478. Individual Differences. 0-3-0

Prerequisite: Six hours in Psychology.

Nature, extent, and practical implications of individual differences and individual variation. Mr. McGehee.

Courses for Graduates Only

Psychol. 512, 513, 514. Problems in Applied Psychology. 3 3-3

Prerequisite: Twelve hours in Psychology.

Individual and group research problems in educational, industrial, and social psychology. Messrs. McGehee, Moffie.

RELIGION

(See Ethics, page 237)

RURAL SOCIOLOGY

Courses for Undergraduates

Rural Soc. 201. Rural Sociology. 3 or 3 or 3

The culture, social organization, and social problems of rural people with special reference to Southern rural life and proposed programs of development. Staff.

Rural Soc. 401. Rural Leadership. 3-0-0

Social role of leadership; types and numbers of leaders; sources and backgrounds; motivation and personal traits; experience, training, and education; how leaders gain and hold power; adjustment of leadership to the changing environment; biographies of different types of leaders; and new opportunities for rural leadership. Mr. Winston.

Courses for Graduates and Advanced Undergraduates

Rural Soc. 402. Farmers' Movements. 0-3-0

The orgin, growth, and the present status of such national farmers' organizations and movements as: The Grange, the Farmers' Alliance, the Populist Revolt, the Agricultural Wheel, the Farmers' Union, the Society of the Equity, the Nonpartisan League, the Farm Bureau, the Farm Labor Union, the Cooperative Marketing Movement. Mr. Seegers.

Rural Soc. 411. Rural Population Problems. 3 0-0

The number and distribution in relation to natural resources; physical and demographic characteristics; marriage rates; natural increase; migration; morbidity; mortality; occupations; rural urban comparisons; trends; and national policies. Mr. Hamilton.

Rural Soc. 413. Community Organization. 0-0-3

Community organization in North Carolina and other States; structure and size; institutions and service agencies; disorganization; techniques and methods of organization; leadership and the relation of organizations to State and National agencies. Mr. Mayo.

Rural Soc. 121. Rural Social Psychology. 3-0 0

Characteristic mental traits and attitudes of rural people in relation to social organization and social change. Mr. McGeehee.

Rural Soc. 122. Social Aspects of Land Tenure. 0-3 0

Character and history of different types of land tenure; origins and growth of farm tenancy in the United States; social correlatives of land tenure; landlord tenant relationships; the farm leases; problem of ownership; farm mortgages; reform programs. Mr. Hamilton.

Rural Soc. 132. Social Security of Rural People. 0-3 0

Origin, extent, and character of rural poverty; types and extent of relief; problems of prevention; public policies and programs. Mr. Mayo.

Rural Soc. 151. Statistical Analysis of Social Data. 3-0 or 3

Sampling social data, rural surveys and testing methods; analysis of variance and relationships; population studies. Application to problems in the fields of sociology, psychology and education. Mr. Hamilton.

Rural Soc. 153. Agricultural Extension and Education. 0 0 3

Provides opportunity for interested students to gain an insight into rural educational agencies with major emphasis on agricultural Extension, including what the Extension Service is, its development, objectives, organization and scope; how it operates, principles of operation, educational methods and techniques employed. Agriculture Faculty.

Courses for Graduates Only

Rural Soc. 531. Rural Standards of Living. 3-0-0

Theories and surveys of rural standards of living. Forces and programs affecting present day standards. Mr. Hamilton.

Rural Soc. 532. The Rural Family. 0-3-0

Historical forms and functions of rural family life; family activities and relationships; stages of family growth; the family-sized farm; effects of technical and economic changes on the rural family; national policies.

Messrs. Hamilton, Winston.

Rural Soc. 533. The Rural Community. 0-0-3

Human ecology; types of communities; historical trends; economic, cultural and psychological factors; solidarity and disorganization; special interest groups; service agencies; state and national relations; "Utopian" experiments; planning. Mr. Mayo.

Rural Soc. 541, 542, 543. Research in Rural Sociology. 3-3-3

Objectives of research; the scientific method; planning; organization, and direction of rural studies; preparation of schedules, interviewing, editing, tabulation, and analysis; field experience; preparation of research reports.

Credit for 543 involves at least 6 weeks' field and laboratory experience. Staff.

SOCIOLOGY

Courses for Undergraduates

Soc. 101, 102, 103. Human Relations. 2-2-2

Designed for students who do not take Military Science. Elective for others.

An orientation course to introduce the student to the social problems of our time. Staff.

Soc. 201. Introductory Sociology. 3 or 3 or 3

The basic principles underlying social life and the factors connected with it. (Identical with the first term of General Sociology.)

Mr. Winston.

Soc. 202, 203. General Sociology. 3-3-0

First term: an analysis of the fundamental factors affecting life in modern society; second term: practical social problems, using the tools developed in the first term. Mr. Winston.

Soc. 210. General Anthropology. 3 credits

An introduction to the study of man: a consideration of his development from earliest forms to the present. Mr. Winston.

Soc. 301. Human Behavior. 3 credits

An analysis of the social and cultural factors which affect the behavior of persons in their social life. Mr. Winston.

Courses for Graduates and Advanced Undergraduates

Soc. Ex. 400. Criminology. 3 credits

Prerequisite: Soc. 202, supplemented by credits in related fields.

Causes and conditions leading to crime; methods of handling criminals; various factors producing criminal behavior. Mr. Winston.

Soc. 401. Social Pathology. 0-0-3

Prerequisite: Soc. 202, supplemented by credits in related fields.

Pathological problems arising from social life; social and individual adjustments. Mr. Winston.

Soc. 402. Sociology of City Life. 3 credits

Prerequisite: Soc. 202, supplemented by credits in related fields.

Elective.

Problems arising from growth of modern town and city life; city planning in regard to social and industrial progress. Mr. Winston.

Soc. 403. Leadership. 3-0-0

Prerequisite: nine term credits in Sociology, including Sociology 202.

A study of leadership in various fields of American life: analysis of the various factors, inherent or acquired, that are associated with leadership, past and present. Mr. Winston.

Soc. Ex. 404. Educational Sociology. 3 credits

Prerequisite: nine term credits in the Social Sciences.

Application of the principles of Sociology to the practical problems of education with emphasis placed on the relation between adjustment processes in the school and in the larger social world. Mr. Winston.

Soc. 406. The American Family. 0-3-0

Prerequisite: Soc. 202, supplemented by credits in related fields.

Premarital, marital, and family relations; effects of present-day social changes; various efforts to stabilize the family. Messrs. Winston, Hamilton.

Soc. 407. Race Relations. 3-0-0

Prerequisite: Soc. 202, supplemented by credits in related fields.

Elective.

Race problems in America and in other countries; social, economic, and educational status of racial groups; international relations.

Mr. Winston.

Soc. 408. American Culture. 3 credits

Prerequisites: Soc. 202 or Soc. 210, supplemented by credits in related fields.

Analysis of present-day culture, with particular reference to the United States and its regional variations. Mr. Winston.

Soc. 410. Industrial Sociology. 0-0-3

Prerequisite: Soc. 202, supplemented by credits in related fields.

Influence of industrial life: occupations as social and industrial factors; problems arising from our industrial era. Mr. Winston.

Soc. 411. The American People. 3 0-0

Prerequisite: Soc. 202, supplemented by credits in related fields.

Analyses of crucial problems connected with the growth and decline of populations in the United States; factors connected with birth and death rates; marriage rates; discussion of the changing quality of population groups. Mr. Winston.

Soc. 415, 416, 417. Research in Applied Sociology. 3-3 3

Prerequisite: nine hours of Sociology, and permission of the instructor.

Individual research problems in applied fields of sociology, such as problems of the family, of population, of social work; rural-urban relations; student success; American leadership. Mr. Winston.

SOILS (AGRONOMY)

Courses for Undergraduates

Soils 202. Soils. 0-5 or 5

Prerequisites: Geol. 120 and Chem. 101, 102, 103.

The makeup, origin and classification of soils; the soil as a medium for plant growth. Mr. Lutz.

Soils 301. Soil Fertility and Fertilizers. 5-0-0

Prerequisite: Soils 202.

Sources, manufacture, and utilization of fertilizer materials and mixed fertilizers; practical and soil management for North Carolina soils and cropping systems. Mr. Collins.

Soils 312. Soil Classification. 0-3 0

Prerequisite: Soils 202.

The origin, characteristics, and classification of North Carolina soils; field trips. Mr. Lee.

Courses for Advanced Undergraduates and Graduates

Soils 101. Soil Fertility Evaluation. 3-0-0

Prerequisites: Soils 301 and Chem. 213.

Analysis for total and available elements in the soil; the use of soil and plant analyses in soil diagnosis. Mr. Piland.

Soils 103. Soil Conservation. 0-3-0

Prerequisite: Soils 202.

Factors affecting soil deterioration; soil conservation and land use. Messrs. Lutz, Lee.

Soils 113. Advanced Soil Fertility. 0-0-3

Prerequisite: Soils 301.

Soil conditions affecting crop growth; the chemistry of soil and plant interrelationships; theoretical and applied aspects of fertilizer usage in relation to plant nutrition. Mr. Cummings.

Soils 113. Soil Microbiology. 0-0-3

See Botany 443. Mr. Shunk.

Soils 191, 192, 193. Special Problems. 3-3-3

Prerequisite: Admitted only with consent of the instructor.

Problems involving special library, laboratory or field studies of soils. Staff.

Courses for Graduates Only

Soils 501. Soil Development. 3 0 0

Prerequisites: Graduate standing in Soils.

Genesis, morphology, and development of the great soil groups of the world. Mr. Lutz.

Soils 502. Advanced Fertilizers. 0 2-0

Prerequisite: Graduate standing in Soils.

Recent trends in the manufacture, characteristics and utilization of fertilizers; new developments in fertilizer experimentation.

Offered in alternate years. Mr. Collins.

Soils 512. Physical and Colloidal Chemistry of Soils. 0-5-0

Prerequisite: Graduate stnading in Soils.

The origin and nature of inorganic and organic soil colloids; their behavior with respect to soil acidity, base exchange, absorption; and plant nutrition. Offered in alternate years. Staff.

Soils 522. Soil Physics. 0-5-0

Prerequisite: Graduate standing in Soils.

Physical constitution of soils, mechanical analysis, consistency and plasticity, structure, water relations, soil air and temperature. Offered in alternate years. Mr. Lutz.

Soils 531, 532, 533. Seminar. 1-1-1

Prerequisite: Graduate standing in Soils.

Reports and discussions of problems in Soil Science. Staff.

Soils 541, 542, 543. Soils Research.

Prerequisite: Graduate standing in Soils.

Research in specialized phases of Soil Science. By Arrangement. Staff.

TEXTILES

Courses for Undergraduates

Tex. 101. Textile Principles. 0-3-0

This course is an introduction to textile manufacturing. It covers briefly the processes common to yarn manufacturing, and in a broader sense the types of mechanisms common to all textile machines, calculations involving speeds, productions, and twists that are associated with these mechanisms, and the theory and application of cotton numbering system. The lecture and recitation work is supplemented by laboratory application, which covers in detail the work of the classroom. Messrs. Grover and Bogdan.

Tex. 131. Cloth Calculations. 0-0-3

Required of freshmen in all Textile curricula.

Harness, reed and fabric calculations; loom production problems; operation of plain and automatic looms. Messrs. Porter, Moser.

Tex. 205. Yarn Manufacture I. 3-0 or 3

and

Tex. 201, 202. Yarn Manufacture Laboratory I. 1-1-0 or 0 1-1

Required of sophomores in all Textile curricula.

Mixing of cotton; description and setting of openers, pickers, cards and draw frames; production, speed and draft calculations; operation and fixing of machines; grinding and setting of cards; setting of draw frame rolls and construction of draw frames; weighting of rolls and types of roll covering. Messrs. Hilton, Culberson.

Tex. 211. Knitting I. 2-0 or 2

Tex. 207, 208, 209. Knitting Laboratory I. 1 1-1

Required of sophomores in all textile curricula. Selection and preparation of knitting yarns, knitting mechanisms, structure of basic types of spring and latch needle fabrics; operation and adjustment of the basic types of knitting machines. Messrs. Shinn, Lewis.

Tex. 231. Power Weaving. 0-2-0

and

Tex. 231, 232. Power Weaving Laboratory. 1 1 0 or 0-1-1

Required of sophomores in all Textile curricula.

Construction of auxiliary motions on plain looms; cams and their construction; drop box loom construction; methods of pattern chain building; construction and value of pattern multipliers; timing of drop-box motion, and other motions.

Operation and fixing of plain, automatic and drop-box looms; pattern chain building for drop box looms. Messrs. Nelson, Moser, Porter.

Tex. 235, 236. Fabric Structure and Analysis. 2-2-0 or 0-2-2

Required of sophomores in all Textile curricula.

Systems of numbering woolen, worsted, silk, linen, rayon, and cotton yarn; plain, twill, and sateen weaves; ornamentation of plain weaves; wave designs; pointed twills; diamond effects; plain and fancy basket weaves; warp and filling rib weaves.

Analyzing plain, twill, sateen, and other fabrics made from simple weaves, ascertaining the number of ends and picks per inch in sample; fabric analysis calculations. Messrs. Porter, Moser.

Courses for Advanced Undergraduates

Tex. 304. Yarn Manufacture II. 0-3-0

and

Tex. 301, 302, 303. Yarn Manufacture Laboratory II. 1-1-1

Prerequisites: Yarn Manufacture I, Tex. 201, 202, 205.

Required of juniors in Textile Manufacturing. Elective for others.

Tex. 310, 311. Yarn Manufacture III. 0-3-3

and

Tex. 307, 308, 309. Yarn Manufacture Laboratory III. 2-2 2

Prerequisites: Yarn Manufacture I, Tex. 201, 202, 205.

Required of juniors in Yarn Manufacture.

Construction of sliver lappers; ribbon lappers; combers; mechanical and electrical stop motions; description and setting of the different parts; care of machines; fly-frame builder and differential motions.

Operation and fixing of sliver lappers; ribbon lappers; combers and fly-frames; changing of hank roving, draft and twist; setting of drafting and speeder motions. Messrs. Hilton, Culberson.

Tex. 419. Knitted Garment Manufacture. 0 0-3

Tex. 313, 314, 315. Knitting Laboratory II. 2 2-2

Prerequisite: Tex. 207, 208, 209, 211.

Required of juniors in Knitting. Elective for others.

A study of circular latch needle and spring needle body machines for knit fabric production; style cutting and seaming of the basic garment types for underwear and outerwear; standard seam types; high speed sewing machines. Messrs. Shinn, Lewis.

Tex. 335. Dobby Weaving. 3-0 or 3

and

Tex. 331, 332, 333. Dobby Weaving Laboratory I. 1-1-1

Required of juniors in Textile Manufacturing and Yarn Manufacturing. Elective for others.

Mr. Hart.

Tex. 337, 338, 339. Dobby Weaving Laboratory II. 2 2-2

Prerequisites: Power Weaving, Tex. 231, 232, 234.

Required of juniors in Weaving and Designing.

Methods of drawing in and starting up cotton and rayon warps; setting of harness shafts; selection of springs or spring jacks. Construction and methods of fixing single and double index dobbies; methods of pattern-chain building.

Preparation of warps for weaving cotton and rayon fabrics on dobby looms; starting up warps in looms; fixing single and double index dobbies; pattern-chain building; operation of dobby looms. Mr. Hart.

Tex. 341, 342. Fabric Design and Analysis I. 3-3-0 or 0-3-3

Prerequisites: Fabric Structure and Analysis, Tex. 235, 236.

Required of juniors in Textile Manufacturing and Weaving and Designing. Elective for others.

Construction of fancy weaves, such as broken twills, curved twills, entwining twills; granite weaves; imitation leno; honeycomb weaves; fabrics backed with warp or filling; fabrics ornamented with extra warp or filling; combining weaves together to produce new patterns.

Analyzing samples of fancy fabrics for design, drawing in draft, reed, and chain plan; calculating particulars to reproduce fabrics from data obtained from sample. Mr. Hart.

Tex. 343. Textile Testing I. 0 0-1

Required of juniors in Textile Manufacturing, Textile Chemistry and Dyeing, Weaving and Designing and Knitting.

Quality control methods for textile processing, with emphasis on the measurement by laboratory instruments and techniques, and including a study of the mechanical and natural influences involved. Mr. Grover.

Tex. 345. Textile Calculations I. 0-0-3

Prerequisites: Fabric Structure and Analysis, Tex. 235, 236.

Required of juniors in Textile Manufacturing and Weaving and Designing. Elective for others.

An intensive course in calculations for designing, weaving, and analyzing cotton, rayon, silk, wool, worsted and linen yarns and fabrics; weight of fabrics, ends and picks per inch; costing of fabrics; reed and harness calculations; loom speed and production. Mr. Hart.

Tex. 410. Knitting Calculations. 0-0-3

Prerequisites: Tex. 211.

Mathematics of flat and rib knitting.

Inter-relation of yarn number, yarn diameter, gauge, cut, stitch, length, fabric structure, and weight; proportions of yarns in multiple thread work; production problems, etc. Mr. Shinn.

Tex. 351, 352. Knitted Fabric Design and Analysis. 2-2-0

Prerequisite: Tex. 207, 208, 209, 211.

Required of juniors in knitting. Elective for others.

Stitch formation for the more intricate knitted fabrics; control mechanisms for pattern work; designing methods; analysis of fabrics for reproduction and costing; color in knit goods. Mr. Shinn.

Tex. 355, 356. Textile Cost Methods. 0-3-3

Prerequisites: Tex. 205, 236, 237.

A survey of cost methods applicable to textile mills with emphasis on calculations, the preparation of cost reports and their use in cost control. Mr. Shinn.

Tex. 375. Dyeing I. 3-0 or 3

and

Tex. 371, 372, 373. Dyeing Laboratory I. 1-1-1

Prerequisites: Chemistry 103.

Required of juniors in Textile Manufacturing. Elective for others.

Physical and chemical properties of textile fibres; chemicals used in preparing fibres for dyeing; methods of applying substantive, sulphur, basic, developed, acid, acid chrome, mordant and vat dyes; effect of changes in temperature and volume of the dye bath; theory of dyeing mixed fabrics theory of mercerizing; tests for the chemical constituents of the fibres; dyeing experiments using all the different classes of dyes on the various fibres; tests showing effect of varying such factors as bath, temperature and time; test for fastness to light, washing, cross-dyeing, and so forth; mercerizing experiment. Messrs. Grimshaw, Hayes.

Tex. 381, 382. Dyeing II. 3-3-0

and

Tex. 377, 378, 379. Dyeing Laboratory II. 2-2-2

Prerequisite: Chemistry 103.

Required of juniors in Textile Chemistry and Dyeing.

Physical and chemical properties of textile fibres; lectures on wool, silk, rayon, and cotton; hydrometers and chemicals used in dyeing and finishing; application of dyestuffs to different fibres; effect of changing bath, temperature, or time factor; money value and strength tests of dyes; theory of dyeing mixed fabrics; mercerizing.

Microscopic examination of textile fibres; dyeing experiments using different classes of dyes on textile fibres; tests showing the effects of varying such factors as bath, temperature, and time; fastness to light, washing, and cross dyeing; money value and strength of various dyes; mercerizing. Messrs. Grimshaw, Hayes.

Courses for Graduates and Advanced Undergraduates

Tex. 405. Yarn Manufacture IV. 3-0 or 3

and

Tex. 401, 402, 403. Yarn Manufacture Laboratory IV. 1-1-1

Prerequisites: Yarn Manufacture, Tex. 301, 302, 303, 304.

Required of seniors in Textile Manufacturing. Elective for others.

Messrs. Hilton and Culberson.

Tex. 411, 412. Yarn Manufacture V. 3-3-0

and

Tex. 407, 408, 409. Yarn Manufacture Laboratory V. 2-2-2

Prerequisites: Yarn Manufacture, Tex. 307, 308, 309, 310, 311.

Required of seniors in Yarn Manufacturing.

Spinning; spooling; warping; twisting; description and setting of different parts; builder motions for warp and filling; bobbin holders, thread guides, traverse motions; ply yarns; calculations for twist, speed, and production.

Practical methods of spinning, warping, spooling, winding and twisting; setting of spinning rolls, spinning frame builder motions for warp, filling, and combination build; the practical application of all machines in Yarn Manufacture. Messrs. Hilton, Culberson.

Tex. 413. Textile Calculations II. 3-0-0

Prerequisites: Yarn Manufacture II or III, Tex. 304 or 310, 311.

Required of seniors in Yarn Manufacturing. Elective for others.

Principles underlying the calculation of draft, twist, speed, and production; systems of numbering yarns; doubling and twisting yarns; lay, tension, differential, and cone drum calculations; practice in solving practical mill problems. Mr. Hilton.

Tex. 415. Manufacturing Problems. 0-0-3

Prerequisites: Yarn Manufacture II or III, Tex. 304 or 310, 311.

Required of seniors in Yarn Manufacturing. Elective for others.

Mill organization and administration; machine layout for long and regular draft spinning; production control and costs; making of novelty yarns; making of daily and weekly reports; breaking of single and ply yarns; regular and reverse twisted yarns. Mr. Hilton.

Tex. 416. Wool Manufacture I. 0-3-0

and

Tex. 417, 418. Wool Manufacture Laboratory I. 1 1-0

Prerequisites: Yarn Manufacture II or III, Tex. 304, or Tex. 310, 311.

Elective for seniors in Textile School.

Physical and chemical properties; reclaimed wool and secondary raw materials; grading; sorting; mixing and blending; oiling and garnetting; description of feeders; cards; tape condensers; card setting; stripping and grinding; woolen spinning; twister head; mechanical details and production; the practical application of machines in Woolen Yarn Manufacture.

Mr. Hilton.

Tex. 420. Cotton Quality I. 0-3-0

History, development, production, ginning, and handling of cotton. World crops; marketing methods; classification; relation of grade and staple to value of cotton. Mr. Campbell.

Tex. 421. Cotton Quality II. 0-0-3

Laboratory measurement of the physical properties of cotton fibers; differences among varieties; relation of fiber properties to spinning quality; relation of grade and staple to waste, spinning behavior, and yarn quality. Selection of cotton for different types of yarns and fabrics.

Mr. Campbell.

Tex. 426, 427. Mill Organization. 0 3 3

A study of the factors involved in the organizatio of a textile mill, including environmental factors; land, building, machinery and personnel requirements and planning for their assembly and utilization in mill operation. Mr. Grover.

Tex. 428. Flat Knitting. 3 0 0

Prerequisites: Tex. 351, 352.

Required of seniors in knitting. Elective for others.

A study of the leading types of flat knitting machines including warp knitting machines, design possibilities, and fabric adaptability.

Messrs. Shinn, Lewis.

Tex. 429. Full-fashioned Hosiery Manufacture. 3-0-0

Tex. 423, 424, 425. Knitting Laboratory III. 2 2-2

Required of seniors in knitting. Elective for others.

Mechanics of the full fashioned hosiery machine including practical training in its adjustment and operation. Attention is given to yarn preparation, knitting, inspection, finishing and packaging hosiery.

Mr. Lewis.

Tex. 435. Cotton, Wool and Rayon Weaving. 0-0-3

and

Tex. 431, 432. Cotton, Wool and Rayon Weaving Laboratory I. 1-1-0

Prerequisites: Dobby Weaving, Tex. 331, 332, 333, 335.

Required of seniors in Textile Manufacturing. Elective for others.

Messrs. Nelson, Hart.

Tex. 433, 434. Hosiery Manufacture. 3 3-0

Prerequisites: Tex. 207, 208, 209, 211.

Required of juniors in Knitting and seniors in Textile Manufacturing. Elective for others.

A study of advanced types of circular knitting machines and the problems involved in the manufacture of the more complex types of hosiery. Hosiery design and analysis. Messrs. Shinn, Lewis.

Tex. 437, 438, 439. Cotton, Wool and Rayon Weaving Laboratory II. 2-2-1

Prerequisites: Dobby Weaving. Tex. 335, 337, 338, 339.

Required of seniors in Weaving and Designing.

Principles of loom construction to weave rayon and fine cotton fabrics; pick and pick looms; box and multiplier chain-building; arrangement of colors in boxes to give easy running loom; extra appliances for weaving leno, towel, and other pile fabrics; construction and operation of single, double lift, and rise and fall jacquards; tie-up of harness for dress goods, table napkins, damask, and other jacquard fabrics, such as leno; relative speed of looms; production calculations and fabric costs.

Operation and fixing of dobby, pick and pick, and jacquard looms; preparation of warps to weave rayon, wool and fine cotton fabrics; building of box, dobby, and multiplier chains. Messrs. Nelson, Hart.

Tex. 443. Dobby Design. 3 or 3-0

Prerequisites: Fabric Design and Analysis I, Tex. 341, 342.

Required of seniors in Textile Manufacturing and in Weaving and Designing. Elective for others.

Designing fabrics, such as fancy crepes, figured double plain, matelasse, velvets, corduroys, pique, lines of samples. Leno weaves with one, two or more sets of warps. Mr. Nelson.

Tex. 444. Advanced Dobby Design. 0-3-0

Prerequisite: Dobby Design, Tex. 443.

Required of seniors in Weaving and Designing.

Combination of plain and fancy weaves with leno; methods of obtaining leno patterns; methods of making original designs for dress goods, draperies, etc. Mr. Nelson.

Tex. 445. Jacquard Design. 0 0 3

Prerequisites: Fabric Design and Analysis I, Tex. 341, 342.

Required of seniors in Textile Manufacturing and juniors in Weaving and Designing. Elective for others.

Designing fancy and jacquard fabrics; methods of making original designs for table napkins, table covers, dress goods, draperies.

Mr. Nelson.

Tex. 447, 448, 449. Jacquard Design Laboratory. 1 1 1

Prerequisites: Jacquard Design, Tex. 445.

Required of seniors in Weaving and Designing.

Designing fancy and jacquard fabrics; methods of making original designs by combinations of color, weave, and sketches; designs for table napkins, table covers, dress goods, draperies. Messrs. Nelson, Shinn.

Tex. 451. Fabric Analysis. 2-0-0

Prerequisites: Fabric Design and Analysis, Tex. 341, 342.

Required of seniors in Textile Manufacturing and Weaving and Designing. Elective for others.

Analyzing samples of cotton, wool, worsted, linen, rayon, and silk fabrics for size of yarns, ends and picks per inch, weight of warp and filling, so as to accurately reproduce samples analyzed; obtaining design, drawing in draft, chain, and reed plan for fancy fabrics, such as stripes, checks, extra warp and extra filling figures, leno fabrics, jacquard fabrics, draperies.

Mr. Nelson.

Tex. 455, 456. Color in Woven Design. 3-3-0

Prerequisites: Fabric Structure and Analysis, Tex. 236, 237.

Required of seniors in Weaving and Designing. Elective for others.

Pigment and light theories of color; contrast and harmony of color; factors which influence quality, style, and color; methods of applying weaves and color to fabrics for wearing apparel and home decorations.

Mr. Hart.

Tex. 457, 458, 459. Textile Testing II. 1-1-1

Prerequisite: Fabric Testing, Tex. 343 or equivalent.

Required of seniors in Weaving and Designing.

Tests for moisture content, regain, twist, and tensile strength; description and operation of testing equipment; solution and written reports of assigned textile problems. Mr. Grover.

Tex. 474. Cotton and Rayon Dyeing I. 0-3-0

and

Tex. 471, 472, 473. Cotton and Rayon Dyeing Laboratory I. 1-1-1

Prerequisites: Dyeing I, Tex. 371, 372, 373, 375.

Required of seniors in Textile Manufacturing. Elective for others.

Lectures on color mixing, money value of dyes; testing of dyes, water, starch, and materials used in sizing; lubricating oils and oil compounds; processes and machinery used in dyeing and finishing; textile printing; apparatus used in research laboratory.

Color matching; testing dyes for strength and money value; physical and chemical examination and application of starches, sizing materials and finishing compounds; examination of textile oils, soap, and all the different rayons; analysis of mixed fabrics. Messrs. Grimshaw, Hayes.

Tex. 475. Textile Microscopy I. 0-0-1

Prerequisites: Dyeing I or II, Tex. 375 or 381, 382.

Required of seniors in Textile Manufacturing. Elective for others.

Instruction in the use of the microscope; examination of fibres; preparation of permanent slides. Messrs. Grimshaw, Hayes.

Tex. 480, 481. Cotton and Rayon Dyeing II. 0-3-3

and

Tex. 477, 478, 479. Cotton and Rayon Dyeing Laboratory II. 2-2-2

Prerequisites: Dyeing II, Tex. 377, 378, 379, 381, 382.

Required of seniors in Textile Chemistry and Dyeing.

Theories of color matching; lectures on color mixing, water and mold, starch, materials used in sizing; lubricating oils, textile oils and oil compounds; processes and machinery used in dyeing and finishing; method of analyzing textile fabrics; laboratory equipment used in textile research and testing laboratories.

Color matching; physical and chemical examination and application of textile oils, soaps, and finishing compounds; microscopic and chemical tests on rayons; dyeing various types of rayon; operation of dyeing and finishing equipment in the dye house and research laboratories.

Mr. Grimshaw.

Tex. 487. Textile Printing. 3-0-0

and

Tex. 483, 484, 485. Textile Printing Laboratory. 1-1-1

Prerequisites: Dyeing II, Tex. 381, 382.

The history of printing and the development of machinery used; calico printing and the mordant, basic, and vat colors, analine black, indigo, and insoluble azo colors; resist and discharge styles.

Paste mixing; practical experiments. Messrs. Grimshaw, Hayes.

Tex. 489, 490. Textile Microscopy II. 1-1-0

Prerequisites: Dyeing I or II, Tex. 375 or 381, 382.

Required of seniors in Textile Chemistry and Dyeing. Elective for others.

Instruction in the use of the microscope; examination of fibres; preparation of permanent slides. Messrs. Grimshaw, Hayes.

Tex. 495. Principles of Fabric Finishing. 0-0-3

and

Tex. 491, 492, 493. Principles of Fabric Finishing Laboratory. 1-1-1

Prerequisites: Dyeing II, Tex. 371, 372.

Required of students in Textile Chemistry and Dyeing.

A study of machinery used in finishing of textile fabrics and in textile printing, with lectures on materials used in the textile finishing and printing industry and experiments. Mr. Grimshaw.

Courses for Graduates Only

Tex. 501, 502, 503. Yarn Manufacture. 3-3-3

Prerequisites: Yarn Manufacture IV, Tex. 405 or equivalent.

A study of breaking strength and related properties of cotton yarns made under various atmospheric conditions; comparison of yarns produced from long and short-staple cotton with regular and special carding processes; efficiency of various roller covering materials at the drawing processes; elimination of roving processes by special methods of preparation; comparison of regular and long-draft spinning. Messrs. Grover, Hilton.

Tex. 505, 506, 507. Textile Research. 3-3-3

Prerequisite: Graduate standing.

A study of the moisture content of cotton yarns and fabrics; the convolutions in cotton fibres and their relation to spinning, weaving, and dyeing; the effect of mercerization on cotton yarns and fabrics; testing yarns and fabrics under variable conditions for breaking strength and elasticity. Staff.

Tex. 531, 532, 533. Textile Design and Weaving. 3-3-3

Prerequisites: Leno, Dobby and Jacquard Design, Tex. 441, 443, 445 or equivalent.

Study and practice in more advanced designing and analysis of fabrics, such as lenos made with twine and wire doups, lappits, and other fancy fabrics; designing for jacquard dress goods, table covers, reversibles, and other fabrics; making original designs for dobby and jacquard fabrics; fabric costs; weaving fancy and jacquard fabrics.

Messrs. Nelson, Hart.

Tex. 535, 536, 537. Seminar. 1-1-1

Discussion of scientific articles of interest to textile industry; review and discussion of student papers and research problems. Textile Staff.

Tex. 561, 562, 563. Knitting Research. 3-3-3

Prerequisite: Graduate Standing.

Problems of specific interest to the knitting industry will be assigned for study and investigation. The use of experimental methods will be emphasized. Attention will be given to the preparation of reports for publication.

Tex. 571, 572, 573. Textile Dyeing. 3-3-3

Prerequisites: C. & R. Dyeing I, Tex. 474 or equivalent.

The course consists of matching shades from standard and season color cards upon classes of materials which require skill in their dyeing, such as three-fibre, cotton-wool, and half-silk hosiery, woolens and worsteds with effect stripes, and cotton fabrics with woven figures or stripes of the different varieties of rayon; advanced work on chemical and microscopical examination of materials used in dyeing and finishing. Mr. Grimshaw.

Tex. 575. Advanced Textile Microscopy. 0 0-3

Prerequisites: Textile Microscopy, Tex. 489, 490.

Microscopic study of textile starches, fibres, fabrics, oils, etc.; study of mounting media for above; methods of mounting textile materials; methods of cross sectioning textile materials; photomicrography. Mr. Grimshaw.

ZOOLOGY

Courses for Undergraduates

Zool. 101. General Zoology. 4 or 4 0

Animals with special reference to the morphology and physiology of vertebrates. Messrs. Kulash, Mitchell, McCutcheon, Stevens, Wing.

Zool. 102. Economic Zoology. 0 4 or 4

Animals with special reference to the more important economic groups; designed to give the student a general knowledge of the animal kingdom.

Messrs. Kulash, Mitchell, Stevens.

Zool. 111. Elementary Wildlife Management. 1-0-0

An introductory survey of the field of wildlife management.

Mr. Stevens.

Courses for Advanced Undergraduates

Zool. 201. Animal Physiology. 5-0 0

Prerequisites: Zool. 101, Phys. 115, Chem. 201, 202, 203.

Comparative physiology of vertebrates, with particular reference to mammals and man. Detailed studies of various functions, with metabolism emphasized. Mr. McCutcheon.

Zool. 213. Economic Entomology. 0 4 or 4

Prerequisite: Zool. 102.

The insects, including their economic importance and the principles of control. Messrs. Mitchell, Wing, Kulash.

Zool. 223. Comparative Anatomy. 0-0-5

Prerequisites: Zool. 101, 102.

Comparative morphology of vertebrates. Interrelations of organ systems studied for the various groups. Mr. Harkema.

Zool. 241, 213. Beekeeping. 3-0-3

Prerequisite: Zool. 102.

Scientific beekeeping and honey marketing. Mr. Stevens.

Zool. 251, 252, 253. Ornithology. 2-2-2

Prerequisites: Zool. 101, 102.

Biology and morphology of North American birds. Mr. Metcalf.

Zool. 302. Forest Entomology. 0-3-0

Prerequisite: Zool. 213.

Forest insects, including the factors governing abundance, and the application of this knowledge in control. Mr. Kulash.

Zool. 312. Principles of Game Management. 0-3 or 3

Elective for juniors and seniors not in Game Management.

Brief survey of the field, study of the major principles involved, and the correlation of wildlife management with other land uses. Mr. Stevens.

Zool. 321, 322, 323. Wildlife Conservation. 3-3-3

Prerequisites: Zool. 251, 252, 253, F. C. 202, Bot. 101, 102, 203.

History of game and wildlife management; relation of wildlife conservation to soil and forest conservation; national and state parks; general farming operations. Mr. Stevens.

Zool. 332. Fur Resources. 0-3-0

Prerequisites: Zool. 321, 322, 323.

Life history and management of the important fur-bearing animals; skinning, drying, marketing pelts; fur farming. Mr. Stevens.

Courses for Graduates and Advanced Undergraduates

Zool. 401, 402, 403. Applied Entomology. 3-3-3

Prerequisites: Zool. 213.

Crop and animal pests with emphasis on their identification; general principles of insect control and special study of contact insecticides, stomach poisons and fumigants; insecticide research methods. Mr. Fulton.

Zool. 411. Genetics. 5 0 0

Prerequisite: Bot. 101 or Zool. 101.

Basic principles of heredity and variation. Students conduct breeding experiments and study inheritance in various animals and plants.

Mr. Bostian.

Zool. 412. Advanced Genetics. 0 3-0

Prerequisite: Zool. 411.

Intended for students desiring more thorough and detailed training in fundamental genetics than provided by Zool. 411, with some attention to recent advances. Mr. Bostian.

Zool. 413. Advanced Physiology. 0-0-3

Prerequisites: Zool. 101, 102, 201.

Special studies in animal physiology with emphasis on fundamental processes involved. Lectures, reports, and conferences to promote an acquaintance with general literature and recent advances; selected exercises and demonstrations to develop experimental technique. Mr. McCutcheon.

Zool. 421, 422, 423. Systematic Zoology. 3-3-3

Prerequisites: Zool. 101, 102.

The classification of insects or other groups of animals.

Messrs. Metcalf, Mitchell.

Zool. 431. Field Zoology. 3-0-0

Prerequisites: Zool. 101 and 213, or 223.

The relation between animals and their environment. Frequent excursions to the field will be taken. Messrs. Bostian, Wing.

Zool. 112. Histology. 0 5-0

Prerequisites: Zool. 101, 102, 201, 223.

Animal tissues and their preparation. Mr. Harkema.

Zool. 113. Zoological Technique. 0-0 5

Prerequisites: Zool. 101, 102, 213.

Methods of preserving animals and illustrating papers. Staff.

Zool. 451, 452, 453. Wildlife Management. 3-3-3

Prerequisites: Zool. 321, 322, 323.

Foods and feeding habits of the more important groups of wild animals; field and laboratory studies of wildlife management and research; the economic relations of game, predatory, and fur bearing animals.

Mr. Stevens.

Zool. 161. Vertebrate Embryology. 5-0-0

Prerequisites: Zool. 101, 102.

The comparative embryology of the principal groups of vertebrates, with special emphasis on the chick. Mr. Harkema.

Zool. 462, 463. Advanced Animal Ecology. 0-3-3

Prerequisite: Zool. 433.

Animal geography and the factors which influence the distribution of animals. Mr. Metcalf.

Zool. 471, 472, 473. Advanced Wildlife Management. 3-3-3

Prerequisite: Concurrently with or preceded by Zool. 321, 322, 323.

An assigned problem to be planned and worked out by the student. A term paper covering the procedure. Mr. Stevens.

Zool. 481, 482, 483. Advanced Food Habits Problems. 3-3-3

Prerequisite: Concurrently with or preceded by Zool. 451, 452, 453.

Assigned or selected problem dealing with the foods and feeding habits of one species of wild animal or a group of similar wild animals.

Mr. Stevens.

Zool. 492, 493. Parasitology. 0-3-3

Prerequisite: Zool. 101, 102, 223.

Structures, life-cycles, pathogenicity and control of animal parasites.

Mr. Harkema.

Courses for Graduates Only

Zool. 501, 502, 503. Systematic Entomology. 3-3-3

Prerequisite: Zool. 421, 422, 423.

Codes of nomenclature, methods of writing descriptions, constructing keys, determining priority, selecting and preserving types, and making bibliographies and indexes. Messrs. Metcalf, Mitchell.

Zool. 511, 512, 513, and Zool. 551, 552, 553. Research in Zoology. 3-3-3

Prerequisite: eighteen term credits in Zoology.

Problems in development, life history, morphology, physiology, ecology, genetics, game management, taxonomy, or parasitology.

Messrs. Metcalf, Mitchell, Bostian, McCutcheon, Harkema, Stevens.

Zool. 521, 522, 523. Seminar. 1-1-1

Prerequisite: eighteen term credits in Zoology. Mr. Metcalf.

Zool. 531, 532. Biological Control of Insects. 3-0-0

Diseases, predators and parasites of insects; methods of rearing and disseminating for biological control. Messrs. Fulton, Smith.

Zool. 533. Advanced Genetics. 0-0-3

Prerequisite: Zool. 411, 412.

Special topics and recent advances, accomplished by lectures, references, conferences, and reports by students, each selecting one or more topics for special study. Mr. Bostian.

Zool. 511, 512. Insect Physiology. 3-3-0

Prerequisite: Zool. 201.

Mechanisms involved in the life processes of insects. Mr. McCutcheon.

Zool. 513. Fruit Insects. 0 0-3

Prerequisite: Zool. 213 or equivalent.

The economic importance of insects attacking fruit or fruit trees; their characteristics, habits, ecology, and biology; with most practical control measures. Mr. Smith.

Zool. 551, 552, 553. Research in Zoology. 3-3 3

See Zool. 511, 512, 513. Staff.

Zool. 561, 562, 563. Insect Biology. 3-3-3

Life histories, including modes of reproduction, embryology, growth, metamorphosis, protection, food relations, hibernation, social relations, and adaptations. Mr. Mitchell.

Zool. 571, 572, 573. Insect Ecology and Behavior. 3-3-3

Natural activities of insects: feeding, protection, reproduction, reaction to environmental factors, interrelations, and distribution. Mr. Fulton.

Zool. 581, 582, 583. Insect Morphology. 3-3-3

The external and internal anatomy of insects and their near relatives.

Mr. Metcalf.

Zool. 591. Immature Insects. 0-3-0

Prerequisite: Zool. 102 and 213 or equivalent.

Methods of collecting, preserving and determining immature insects.

Mr. Smith.

V. SUMMARY OF ENROLLMENT

1945-46*

1. Resident Students		
A. Candidates for Degrees		
1. Freshmen	1,487	
2. Sophomores	464	
3. Juniors	173	
4. Seniors	130	
5. Graduates	104	
Total	2,358	
B. Irregular Students		
†1. Extension Classes in Raleigh and Cary	125	
2. Special Students and Auditors	52	
3. Pratt and Whitney Fellows	13	
Total	190	2,548
†2. Non-resident Students		
A. Correspondence Students for College Credit	802	
B. Correspondence Students in Practical Courses, no credit	40	
Total	842	3,390
3. Summer School Students, 1945		
A. Regular Students (twelve weeks term)	225	
B. Pratt & Whitney Fellows	14	
C. Special Students and Auditors	9	
Total	248	3,638
4. Short Courses and Special Conferences		
1. Engineering, Science and Management War Training Courses	451	
2. Motor Vehicle Fleet Supervisors	66	
3. Institute for Surveyors	18	
4. Waterworks School	54	
5. Mid-Southeastern Gas Association	139	
6. Short Course in Lumber Grading	32	
7. Civil Air Patrol School	24	
8. Quality Control by Statistical Methods	28	
9. Textile Lecture Course	24	
Total	836	
Grand Total		4,474

* Does not include Spring Term, 1945-46.
† Data from January 1, 1945, to January 1, 1946.

ENROLLMENT BY CURRICULA

Basic Division

(Freshmen and Sophomores)

Agriculture	334
Engineering	1,286
Teacher Education	83
Textiles	248
Total	1,951

School of Agriculture and Forestry

(Juniors, Seniors, Graduates)

Agricultural Options	89
Agricultural Chemistry	19
Agricultural Engineering	5
Forestry	15
Landscape Architecture	1
Wildlife Cons. and Mgt.	1
Total	130

School of Engineering

(Juniors, Seniors, Graduates)

Aeronautical	18
Architectural	8
Architecture	2
Ceramic	3
Chemical	45
Civil	19
Electrical	23
General	4
Geological	3
Industrial	7
Mechanical	44
Total	176

Division of Teacher Education

(Juniors, Seniors, Graduates)

Agricultural Education	25
Industrial Arts Education	2
Industrial Education	1
Occup. Inf. and Guidance	3
Total	31

School of Textiles

(Juniors, Seniors, Graduates)

Textile Chemistry and Dyeing	11
Textile Management	12
Textile Manufacturing	41
Weaving and Designing	6
Total	70

Nonclassified Auditors and Special Students	52
Pratt and Whitney Fellows	13

* * *

Distribution of Graduate students by schools (included in above departmental classifications).

Agriculture	69
Engineering	14
Teacher Education	10
Textiles	11
Total	104

FIFTY-SIXTH ANNUAL COMMENCEMENT

MAY 28, 1945

DEGREES CONFERRED

SCHOOL OF AGRICULTURE AND FORESTRY

BACHELOR OF SCIENCE
IN AGRICULTURAL CHEMISTRY

**Harriet Byrne Pressly ..... Raleigh

IN AGRONOMY (FIELD CROPS)

Cecil Crouse Lowery ..... Chester, S. C.
Howard Murray Stamey ..... Raleigh

IN ANIMAL PRODUCTION

Robert Hughes Hudgins ..... Raleigh
Robert Newlin Wood ..... Graham
Edwin Edsel Wright ..... Tabor City

IN FARM BUSINESS ADMINISTRATION

Hugh Parks Bell ..... Huntersville
**Cleburn Gilchrist Dawson ..... Dunn
William Felton Elmore ..... Dunn

IN PLANT PATHOLOGY

*Bernard Fishbein ..... New York, N. Y.

IN POMOLOGY

James Gideon Francis ..... Waynesville

IN POULTRY SCIENCE

Everett Keith Almond ..... Albemarle

SCHOOL OF ENGINEERING

BACHELOR OF AERONAUTICAL ENGINEERING

*Ivey Kimbrough Collins ..... Forest City
Daniel Martin Matusow ..... New York, N. Y.
Ronald Arthur Oatman ..... Angola, N. Y.
William Eugene Wade, Jr. ..... Union City, Tenn.

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* With Honors.
** With High Honors.

BACHELOR OF CHEMICAL ENGINEERING

John Douglas Boone ..... Pendleton
Drury Robert Burton ..... Mebane
Charles Jackson Fetner, Jr. ..... Hamlet
Francis Joseph Fisher ..... Roanoke Rapids
Harold Henry Goslen ..... Kernersville
Richard Edward Gross ..... Asheville
William James Hilditch ..... Niagara Falls, N. Y.
William Percy Moore, Jr. ..... Salisbury
**William Meredith Nicholson ..... Winston-Salem
**Victor Balmer Shelburne, Jr. ..... Washington
Harry Graham Taylor, Jr. ..... Greensboro

BACHELOR OF CIVIL ENGINEERING

Paul Noble Howard, Jr. ..... Charlotte
Thomas Marvin Mayfield, Jr. ..... Monroe
Charles John Nackos ..... Wilson
Henry Negron ..... Santurce, Puerto Rico
*Albert Cavin Smith ..... Mooresville

BACHELOR OF ELECTRICAL ENGINEERING

Stanley Lee Friedman ..... Brooklyn, N. Y.
*John David Fuller ..... Hattiesburg, Miss.
*Merrill Nathaniel Lustgarten ..... Brooklyn, N. Y.
**Harold Melville Messenger, Jr. ..... Elmira, N. Y.
**George Herbert Owen ..... Detroit, Mich.
*Herbert Vernon Poe ..... Apex
*Philip Sine ..... New York, N. Y.
*Peter Doub Strum ..... Rocky Mount
*Robert Allen Zachary, Jr. ..... Charlotte

BACHELOR OF SCIENCE
IN GENERAL ENGINEERING

Edward Wilkie Bailey ..... Goldsboro
Robert Galloway Ross, Jr. ..... Charlotte

BACHELOR OF GEOLOGICAL ENGINEERING

*Robert Norman Morrison Urash ..... Woodside, N. Y.

BACHELOR OF INDUSTRIAL ENGINEERING

Marion Cleveland Sasser ..... Selma

* With Honors.
** With High Honors.

BACHELOR OF MECHANICAL ENGINEERING

*Hugh Crocker Murrill	Weldon
Albert Neal Perry	Hamlet
**John Edwin Puvogel	Royal Oak, Mich.
*Edgar Riley Rowe	Aberdeen
*Niles Forrest Wells	Tarentum, Pa.

SCHOOL OF TEXTILES

BACHELOR OF SCIENCE

IN TEXTILE CHEMISTRY AND DYEING

John Marshall Culp, Jr.	Charlotte
Armand Aldore Poitras	New Bedford, Mass.

IN TEXTILE MANAGEMENT

Arnold Brotman	Newark, N. J.
Chester Rudnick Gilbert	Boston, Mass.
Dwight Lambeth Waynick	Greensboro

IN TEXTILE MANUFACTURING

*Maurice Cohen	Miami Beach, Fla.
*Jorge Nadjar Gallardo	Santiago, Chile
Arthur Harold Gibbs	Enka
William Barnwell Heyward	Charlotte
Harold Kernan Massengill	Raleigh
David John Stiles	Stafford, Conn.

IN WEAVING AND DESIGNING

*Jean Marie Clark	Raleigh
Morton Kaplan	Forest Hills, L. I., N. Y.
Ernestine Elizabeth Nelson	Alhambra, Calif.
Martha Louise Wallace	Raleigh

ADVANCED DEGREES

MASTER OF SCIENCE

IN ANIMAL PRODUCTION

Bruce Bernard Blackmon	Buies Creek

* With Honors.
** With High Honors.

IN ENTOMOLOGY

Mario Enrique Perez Escolar ..... Fajardo, Puerto Rico
Jose Antonio Ramos ..... Mayaguez, Puerto Rico
Beverley Shirley Steinert ..... Raleigh

IN RURAL SOCIOLOGY

Martin Reed Chambers ..... Bahama
Frances Marion Henderson ..... Wilmington
Ada Amanda McRackan ..... Raleigh

IN TEXTILE CHEMISTRY AND DYEING

Adrian Newton Stuart ..... Snow Camp

MASTER OF EXPERIMENTAL STATISTICS

Harold Leslie Manning ..... St. Vincent, B. W. I.

HONORARY DEGREES

DOCTOR OF AGRICULTURE

Dudley Warren Bagley ..... Moyock

DOCTOR OF MILITARY SCIENCE

William Carey Lee ..... Dunn

DOCTOR OF TEXTILE SCIENCE

Arthur Mills Dixon ..... Gastonia

MEDALS AND PRIZES

SCHOLARSHIP DAY AND COMMENCEMENT, 1945

American Institute of Chemical Engineers' Award

George Walter Parker, Junior, Chemical Engineering, Murfreesboro, N. C.

Ceramic Awards

J. C. Steele Scholarship Cup (Upperclassman)

C. Rogers Westlake, Sophomore, Ceramic Engineering, Sycamore, Ill.

Moland-Drysdale Scholarship Cup (Freshman)

Dave Waring Sewell, Freshman, Ceramic Engineering, Greensboro, N. C.

Forensic Awards

National Individual Ranking in Direct Clash Debating

Daniel Francis Lovelace, Jr., Freshman, Occupational Information and Guidance, Raleigh, N. C.

Leon Alvon Mann, Jr., Sophomore, Chemical Engineering, Newport, N. C.

Richard Killian Worsley, Freshman, Industrial Engineering, Greenville, N. C.

Gamma Sigma Epsilon Scholarship Cup

(Chemistry)

Victor Balmer Shelburne, Jr., Senior, Chemical Engineering, Washington, N. C.

National Association of Cotton Manufacturers' Medal

(Textile)

Miss Martha Louise Wallace, Senior, Weaving and Designing, Raleigh, N. C.

Phi Kappa Phi Medals

(National Honorary Scholarship)

(Senior Award)

Victor Balmer Shelburne, Jr., Senior, Chemical Engineering, Washington, N. C.

(Junior Award)

Louis Samuel Hovis, Sophomore, Chemical Engineering, Dallas, N. C.

(Sophomore Award)
Eustace Robinson Conway, III, Sophomore, Chemical Engineering, Greenville, N. C.

Sigma Pi Alpha Award

(National Language)

National Award of Merit for Scholarship

Eustace Robinson Conway, III, Sophomore, Chemical Engineering, Greenville, N. C.

Edgar Allen Orr, Sophomore, Chemical Engineering, Rocky Mount, N. C.

Barnette Wesley Allen, Junior, Geological Engineering, Newport News, Va.

Tau Beta Pi

(Honorary Engineering)

Scholarship Cup

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Slide Rules

Stephen Goodyear Flannagan, Freshman, Aeronautical Engineering, Henderson, N. C.

Edward Carson Yates, Freshman, Aeronautical Engineering, Raleigh, N. C.

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FACULTY, STAFF, AND STUDENTS

OF

NORTH CAROLINA STATE COLLEGE OF

AGRICULTURE AND ENGINEERING

OF THE

UNIVERSITY OF NORTH CAROLINA

1945-1946

State College Station

Raleigh

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FOR THE ACADEMIC YEAR 1945-46

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1945-1946

JAMES E. HOBBS, Chief Assistant
203 Watauga, Box 3021

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9257	217	Pat T. Fugate, Jr.
Turlington (C):		
Tel.		
9453		
Bagwell:		
Tel.		
9412 (1st)	111	J. J. West
	125	C. A. Fisler
9131 (2nd)	211	J. B. Stinson
	224	W. K. Thornton
	325	Norman Hodul
Becton:		
Tel.	9	H. D. Penn
9256 (1st)	109	Warren C. Shaw
	124	Stewart Wood
9334 (2nd)	209	Jay H. Hardee
	224	D. T. House
	309	W. H. Riggan, Jr.
	324	T. J. Morgan
Berry:		
Tel.		
9350 (1st)	Social Room	Frank N. Burns
9334 (2nd)		John Parnag
Fieldhouse:		
Tel. 9127		
Syme:		
Tel.		
9288 (1st)		
9150 (2nd)		
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Tel.		
Gold:		
Tel.	101	G. C. Fuller
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Watauga:	103	M. B. Mizelle
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		H. K. Sanders

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1945-1946

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Delta Sigma Phi	2412 Hillsboro Street	2-1873
Lambda Chi Alpha	10 Enterprise Street	8218
Pi Kappa Alpha	1720 Hillsboro Street	8910
Pi Kappa Phi	314 Alexander, Box 4177	
Sigma Alpha Mu	109 Oberlin Road	7638
Sigma Chi	12 Horne Street	3-1934
Sigma Nu	2412 Hillsboro Street	9531
Sigma Phi Epsilon	103 Chamberlain Street	4843
Sigma Pi	2513 Clark Avenue	2-0268

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1945-1946

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*Badders, Hal Asst. Supt., Power Plant. Power Plant Residence: 117 Cox Ave. Tel. 2-2452.	234
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Barker, Nell—Cashier, Business Office. "B" Holladay Residence: Grosvenor Gardens, Apt. C-4. Tel. 5902.	278
*Barnes, Mamie L.—Warp Drawer, School of Textiles. 2nd Floor, Tex. Building Residence: 1904½ Hillsboro St. Tel. 2-2567.	273
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*Bennett, L. S.—Res. Assoc. Prof. Agron., Agron. Dept. 315 Ricks Residence: 2636 Kilgore Ave. Tel. 5303.	207
*Best, Mrs. Wilfrid—Sec., Farm Management. 206 Patterson Residence: B-1 Wilmont Apts.	291
*Biggs, Mrs. V. L.—Clerk, Publications. 5 Ricks Residence: 3208 Merriman Ave. Tel. 5689.	279
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Residence: 1225 Wake Forest Rd. Tel. 2-2139.

Bledsoe, M. C. M. (Miss) Sec., A. I. Dept., A. H. and Dairying Section. 115 Polk 268
Residence: 1103 Brooks Ave. Tel. 2-0688.

*Blumer, Thomas N.—Research Asst. Prof. of A. I. 217 Polk 276
Residence: 3209 Hillsboro St. Tel. 4544.

Boshart, Edward W. Prof. of Ed. and Guid., Div. of Teacher Ed. 101 Tompkins 258
Residence: F-1-B Cameron Court Apts. Tel. 2-2745.

*Bostian, C. H. Asst. Dir. of Instr., Agr. and For., Assoc. in Poul. Genetics and Prof. of Zool. Poul. and Zool. Dept. 109-B Patterson . . . . . 211 & 280
Residence: Lake Boone Trail (Route 6). Tel. 2-3600.

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Residence: 202 Groveland Ave. Tel. 8012.

*Brennecke, Cornelius Godfrey Prof. and Head, E. E. Dept. 203 Daniels 236
Residence: 2408 Everett Ave. Tel. 4594.

Bretsch, Gertrude Jr. Stat. Clerk, Exp. Stat. 101 Patterson 313
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*Brickhouse, C. M. Dist. Agt., Agr. Ext. Service. 101 Ricks 212
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*Bridges, W. S. Assoc. Prof., M. E., M. E. Dept. 105 Page 246
Residence: 125 Chamberlain St. Tel. 4159.

*Briggs, Hermon B.—Prof., Engr. Draw. and Des. Geom. M. E. Dept. 206 Page 247
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*Briggs, Betty E. Sec., Ag. Ext. Service. Home Demonstration. 222-1911 242
Residence: 226 East Park Drive. Tel. 6076.

*Bright, Richard Assoc. Prof., C. E. Dept. 107 Winston . 301
Residence: Rt. 1, Neuse, N. C. (No telephone.)

*Brigman, H. P. Clerk, Poul. 214 Ricks 280
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Residence: 617 N. Blount St. Tel. 4582.

*Brooks, Mrs. J. M. Night Supervisor. Clark Infirmary . . . . . Tel. 7615
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Residence: 2710 Kittrell Dr. Tel. 3-1168.

Brown, Jean Sec., Ext. Studies, Agr. Ext. Service. 108 Ricks 255
Residence: 1313 Hillsboro St. Tel. 4142.

*Brown, Robert R. Prof., E. E. Dept. 104 Daniels 235
Residence: 1612 Craig St. Tel. 2-2470.

*Brown, T. T.—Specialist, Poul. Ext. Dept. 210 Ricks 321
Residence: 1709 Bickett Blvd. Tel. 9731.

*Browne, T. E.—Director, Div. of Teacher Ed. 120 Tompkins 256
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Residence: 2703 Kilgore Ave. Tel. 2-0198.

Castleman, Ann—Tech. Asst., Exp. Stat. 101 Patterson 313
Residence: 2402 Clark Ave., Apt. 5. Tel. 2-3789.

*Caudle, J. E.—Soil Scientist, Soil Conservation Service.
213-1911 ..... Tel. 3-2531
Residence: Rt. 1. Tel. County 5405.

*Caudle, Mrs. T. J.—Sec., Farm Mgt. Dept. 206 Patterson 291
Residence: 1523 Hanover St. Tel. 3-1824.

*Cell, John W.—Asso. Prof., Math. Dept. 218 Tompkins 228
Residence: 602 Dixie Trail. Tel. 2-2528.

Chambers, Clement L. Mgr., Book Dept. Students Supply Store.
Y.M.C.A. ..... Tel. 2-23674 and 225
Residence:

Chamblee, D. S.—Res. Instr. Agron., Forage Crops, Agron. Dept.
320-1911 324
Residence: 140 Alexander Dorm., Box 4132.

*Chase, Eugene B.—Major, Inf., Commanding Officer, 1st Bn. ASTP
Mil. Dept. 108 Syme 203
Residence: 812 E. Gardner Dr. Tel. 3-2680.

*Chronister, Borden S.—Instr., Agron., Soil Fertility, Agron. Dept.
310 Withers 222
Residence: 3207 Merriman Ave. Tel. 2-0993.

*Clark, Joseph Deadrick—Prof., English Dept. 108 Pullen 237
Residence: 15 Furches St. Tel. 7385.

*Clarkson, J. M.—Assoc. Prof., Math. Dept. 206 Tompkins 226
Assoc. Prof., Exp. Stat. 105-A Patterson 313
Residence: 2605 Clark Ave. Tel. 8762.

*Clayton, Carlyle N.—Asso. Plant Pathologist. Botany Dept.
217 Winston 267
Residence: 2601 Van Dyke Ave.

*Clevenger, Mrs. Reba Davis Acting Librarian. Library 259
Residence: 305 Calvin Rd. Tel. 8141.

Clevenger, Wm. L.—Prof., Dairy Manufacturing. A. I. Dept., A. H.
and Dairying Section. 211 Polk 305
Residence: 5 Maiden Lane. Tel. 2-3535.

*Cloyd, E. L.—Dean of Students. 108-109 Holladay 215
Residence: 2224 Hillsboro St. Tel. 5983.

*Coggin, J. K.—Prof., Agr. Ed., Div. of Teacher Ed. 104 Tompkins . 257
Residence: Cary, N. C. Tel. 2482.

*Cole, L. B.—Butcher, Cafeteria. Leazar Hall ..... Tel. 2-0243
Residence: Carlton and Neeley St.

---

* Married.

Ext.

'Collins, E. R. Prof. of Agron., In Charge, Agron. Ext. Dept.
203 Ricks 294
Residence: 2713 Rosedale Ave. Tel. 9715.

'Colwell, W. E. Res. Prof., Agron. Dept.
Residence:

*Comstock, R. E. An. Sci. Stat., Exp. Stat. 107 Patterson 313
Assoc. A. I., A. I. Dept. A. H. Section. 337-1911 and
216 Polk ..... 276 & 326
Residence: 2726 Everett Ave. Tel. 3-1885.

*Cone, A. A. Asst. State Conservationist, Soil Conservation Service.
234-1911 ..... Tel. 3-2531
Residence: 118 E. Park Dr. Tel. 8798.

Conley, Mable C. Sec., Div. of For. 301 Ricks 270
Residence: 15 Enterprise St. Tel. 8433.

'Connor, Irene T. Sec., Reg. Office. 207 Holladay 219
Residence: 115 Woodburn Rd. Tel. 2-2933.

'Conner, N. W. Prof., E. M. Dept. 101 C .E. 317
Residence: 2719 Bedford Ave. Tel. 4924.

*Cook, Leon E. Prof., Agr. Ed., Div. of Teacher Ed. 118 Tompkins 256
Residence: 111 Brooks Ave. Tel. 2-1234.

'Cooke, Henry C. Instr., Math. Dept. 221 Tompkins 228
Residence: 3217 Merrimon Ave.

*Cope, R. L. Asst. Prof., M. E. Dept. Shop 245
Residence: 2 Logan Court. Tel. 2-2673.

*Copley, T. L.—Project Supervisor, Research Div., Soil Conservation
Service. 228-1911 ..... Tel. 2-3579
Residence: 1722 Chester Rd. Tel. 5956.

Cox, Gertrude M.—Dir., Institute of Stat. 105-B Patterson 313

Cox, Gladys—Sec., Dean of Students' Office. 108-109 Holladay 215
Residence: 109 Park Ave. Tel. 2 2533.

'Cox, Paul M. Mechanic, School of Tex. Tex. Building 287
Residence: 13 W. Dixie Dr. Tel. 2 1940.

Craddock, Anne Sec., Arch. Dept. 315 Daniels 250
Residence: 2608 Vanderbilt Ave. Tel. 2-3745.

*Crawford, John W.—Program Planning Specialist, Program
Planning Dept. 313-1911 292
Residence: 3204 Clark Ave. Tel. 5050.

'Crawford, Ora J.—Sten., Ediphone Dept. 214-1911 221
Residence: 2406 Fairview Rd. Tel. 8109.

Creech, Eunice Sten., Expt. Stat. Dept. 105-A Patterson 313
Residence: 2710 Rosedale Ave. Tel. 2-3091.

Crocker, Lizette Sten., Zool. Dept. 103 Zoology 239
Residence: 215 N. Boylan Ave. Tel. 4855.

*Croom, Mrs. W. D. Sec., Dept. of Phys. Ed. and Ath. Gym Tel. 2-2407
Residence: 204 E. Park Dr. Tel. 3-1043.

---

* Married.

Ext.

Crump, Ila Mae Assoc. Nurse, Clark Infirmary ..... Tel. 7615
Residence: Carroll House. Tel. 3-1010.

*Crumpler, Mrs. B. F.—Sten., M. E. Dept. 206 Page 247
Residence: 2307 Byrd St. Tel. 6796.

*Cummings, Charles E. Capt., Inf. Supply Officers and Asst. PMS&T. Mil. Dept. 11 Holladay 314
Residence: 2601 Vanderbilt Ave. Tel. 9887.

*Cummings, Ralph W. Asst. Dir. Exp. Sta., Head, Agron. Dept. 118 Ricks ..... 217 & 262
Residence: 612 Rosemont Ave. Tel. 6468.

Current, Ruth State Home Demonstration Agent. Agr. Ext. Service. 206-1911 244
Residence: 1425½ Park Dr. Tel. 8715.

Currin, Mary Sr. Stat. Clerk. Exp. Stat. 101 Patterson 313
Residence: 114 N. Boylan Ave. Tel. 4766.

Dade, Henry Fitzhugh—Asst. Dean of Students. 102 Holladay ... 215
Residence: 2212 Hope St. Tel. 4972.

Dawson, C. G.—Representative, Bureau of Agr. Econ., U.S.D.A. 209 Patterson 308
Residence: 2209 Hope. Tel. 6792.

*Dearstyne, R. S. Prof. and Head, Poul. Dept. 216 Ricks 280
Residence: 2509 Fairview Rd. Tel. 2-2764.

*Derieux, J. B.—Prof., Theoretical Physics, Phys. Dept. 110 Daniels 229
Residence: 2802 Hillsboro St. Tel. 2-0916.

*Diseker, Ellis G. Research Assoc. Prof. of Agr. Engr. 314 Ricks .. 274
Residence: 2722 Van Dyke Ave. Tel. 5495.

*Doak, C. G. Asst. Prof., Dept. of Phys. Ed. and Ath. Gym 218
Residence: 120 Woodburn Rd. Tel. 2-3701.

*Dobbins, Mary Sr. Stat. Clerk, Exp. Stat. Dept. 101 Patterson ... 313
Residence: 303 Hillcrest Rd. Tel. 8126.

Dodd, Margaret S. Asst. Mgr., Book Dept. Students Supply Store. Y.M.C.A. ..... Tel. 2-3674 and Ext. 225
Residence: 117 N. Blount St. Tel. 5913.

*Doggett, J. Frank—Specialist, Agron. Ext. 206 Ricks .....
Residence: 304 4th

*Doody, Thomas C.—Prof., C. E. Dept. 107 Winston 301
Residence: 38 Bagwell Ave. Tel. 5884.

Dorsett, Harry K. Acting Assoc. Prof., Psych. Dept. 124 Tompkins 286
Residence: 13 Furches St. Tel. 6452.

Dosher, Mrs. Doris A.—Clerk, Ext. Ag. Engr. 320 Ricks 274
Residence: 127 Woodburn Rd. Tel. 8827.

*Drake, J. C. Instr., English Dept. 4 Pullen 237
Residence: Rt. 4, Western Blvd. Tel. 2-3543.

Dudley, Inez—Sec., Ext. For. 307 Ricks 270
Residence: 102 Capital Apts.

---

* Married.

Ext.

*Dunlap, G. H. Technologist, School of Tex. 103 Tex. 289
Residence: 605 Lake Boone Trail. Tel. 2-2349.

Dunn, R. M. Clerk, Soil Conservation Service. 237-1911 .... Tel. 3-2531
Residence: 222 Park Ave. Tel. 5016.

*Edsall, Mrs. Katherine Alston Acting Circulation Librarian. Library 259
Residence: 205 Woodburn Rd. Tel. 2-1698.

*Edsall, Preston W. Assoc. Prof. Hist. and Political Sc. 114 Peele . 200
Residence: 205 Woodburn Rd. Tel. 2-1698.

Ellen, Melba—Asst., Circulation Dept. Library 259
Residence: 6 Seaboard Ave. Tel. 7410.

Eller, Emily M.—Clerk-Sten., U.S.D.A. 312 Polk .....(A.M.) 206
Sten., Hort. Dept. .....(P.M.) 275
Residence: 969 Peace Terrace. Tel. 3-2182.

Ellington, Mary Oliver—Lab. Asst. Zool. and Entom. 204 Zoology 261
Residence: 303 New Bern Ave. Tel. 2-2001.

*Ellis, D. E.—Assoc. Plant Pathologist, Bot. Dept. 217 Winston 267
Residence: 324 Shepherd St. Tel. 2-2239.

*Ellis, H. M.—Agr. Engr. Ext. Spec., Ext. Ag. Engr. 318 Ricks 274
Residence: 2706 Hazelwood Dr. Tel. 5887.

*Etchells, John L. Bacteriologist, U.S.D.A. 312 Polk 206
Residence: 122 Faircloth. Tel. 2-2270.

*Fahrer, Carolyn Moore—Sten., Agron. Dept. 311 Ricks 207
Residence: 204 Woodburn Rd. Tel. 6868.

Feagan, Anne Sten., Alumni Office. 202 Holladay 252
Residence: A-4, Wilmont Apts. Tel. 6170.

*Feathers, W. B.—Head Football and Baseball Coach. Dept. of Phys. Ed. and Ath. Fieldhouse ..... Tel. 6934
Residence: Fincastle Apts., 3109 Hillsboro St. Tel. 3-2252.

*Ferguson, B. Troy—Dist. Agt., Agr. Ext. Service. 101 Ricks 212
Residence: 2405 White Oak Drive. Tel. 2-0617.

*Filicky, John J. Assoc. Chemist, Dairy Manufacturing Sect., Dept. of A. I. 211 Polk 305
Residence: 517 S. Salisbury St. Tel. 2-1712.

*Fisher, H. A.—Head, Dept. of Math.; Armed Services, Coordinator. 201 Tompkins 227
Residence: 125 Brooks Ave. Tel. 4138.

Fitch, Clara Lee Sec., Dist. Agt., Agr. Ext. Ser. 206 Patterson .. 291
Residence: 115 Forest Rd. Tel. 2-1115.

Fleming, Margaret K. Research Inst., Exp. Stat. and Agr. Ec. Dept. 207-B Patterson 308
Residence: C-301 Boylan Apts. Tel. 3-1458.

*Forster, G. W. Head, Agr. Econ. 205-A Patterson 308
Residence: 1924 Sunset Drive. Tel. 2-1361.

---

* Married.

Ext.

Fort, Nellie—Sec. and Clerk, A. I. Dept. 117 Polk 320
Residence: 315 N. Boundary St. Tel. 6108.

*Foster, John E.—Prof., A. H., A. I. Dept., A. H. Section.
218 Polk ..... 276 & 326
Residence: 2706 Rosedale Ave. Tel. 9881.

*Fountain, A. M.—Assoc. Prof., English Dept. 101 Pullen 237
Residence: 900 Canterbury Rd. Tel. 3-1055.

*Fouraker, R. S.—Prof. of E. E., E. E. Dept. 102 Daniels 235
Residence: 601 Brooks Ave. Tel. 2-3094.

Fowler, Miss Louise—Tech. Asst., Zool. Dept. 101 Zoology 239
Residence: 908 W. Johnson St. Tel. 2-2143.

*Fox, A. L.—Acting Chief, Raleigh Div., Metal. Branch. U. S.
Bureau of Mines. 102,-3,-4,-6,7-1911 ..... Tel. 3-1976
Residence: 2410 Everett Ave. Tel. 3-3536.

Freeman, Doris—Sten., Basic Div. 105 Peele 223
Residence: D-201 Boylan Apts. Tel. 2-1438.

Freeman, Jeanne—Grad. Asst., Exp. Stat. Dept. 102 Patterson ... 313
Residence: 2406 Stafford Ave. Tel. 9511.

*Fulton, B. B.—Prof., Zool. and Entom. Zool. and Entom. Dept.
208 Zoology 261
Residence: 600 Brooks Ave. Tel. 2-1868.

*Gaither, E. W.—Subj. Matter Analyst, Agr. Ext. Service.
2nd Floor, Patterson 291
Residence: "Carova" Rt. 4, Western Blvd. Tel. 8616.

*Gardner, M. E. Head, Hort. Dept. 304 Polk ..... 275 & 318
Residence: 2708 Bedford Ave. Tel. 4178.

*Garrett, Earl B. State Conservationist, Soil Conservation Service.
235-1911 ..... Tel. 3-2531
Residence: 223 Hawthorn Rd. Tel. 4328.

*Garriss, Howard R.—Ext. Specialist, Plant Pathologist, Bot. Dept.
202 Winston 267
Residence: 2713 Bedford Ave. Tel. 2-3638.

*Gauger, H. C.—Assoc. Prof., Poul. Sc. Poul. Dept. 218 Ricks 280
Residence: 2724 Van Dyke.

Geile, Mrs. W. G.—Sec., School of Tex. 110 Tex. 273
Residence: 2509 Country Club Rd. Tel. 7486.

Gibbs, Eleanor Lab. Technician, Hort. Dept. Greenhouse 240
Residence: F-102 Boylan Apts.

Gilbert, Clara L.—Sec., Agr. Econ. Dept. 205-B Patterson 308
Residence: 17 Dixie Trail. Tel. 5933.

*Gilbert, P. A. Steward, Cafeteria. Leazar Hall ..... Tel. 2-0243
Residence: 1002 Wake Forest Rd. Tel. 2-1840.

*Giles, G. W.—Assoc. Prof., Agr. Engr. Dept. Agr. Engr. Shop
Bldg. ..... Tel. 3-1374
Residence: Chamberlain St. Tel. 2-1052.

---

* Married.

Ext.

*Glenn, Karl B.—Assoc. Prof., E. E. E. E. Dept. 102 Daniels 235
Residence: 309 N. Bloodworth St. Tel. 2-1207.

*Godwin, W. L.—Supt., Laundry 283
Residence: 2720 Kilgore Ave. Tel. 2-2079.

*Goldston, E. F.—Res. Asst. Prof. Agron., Soil Survey. Agron. Dept.
206 Ricks 294
Residence: No home. .. 123456

*Goodman, J. W.—Asst. Dir., Agr. Ext. Service ..... Tel. 3-3882
104 Ricks 213
Residence: 2118 Woodland Ave. Tel. 2-2079.

Gordon, Pauline E.—Ext. Specialist in Home Mgt. and House Furnishings. Agr. Ext. Ser. 221-1911 242
Residence: 825 Holt Dr. Tel. 8430.

Grady, James Henry Asst. Prof., Arch Dept. 309 Daniels 250
Residence: 224 Hawthorne Rd. Tel. 5428.

*Graeber, R. W. In Charge, For. Ext. 307 Ricks 270
Residence: 303 Hillcrest Rd. Tel. 8126.

*Grant, M. C.—Plumber, Service Dept. Warehouse 272
Residence: State College. Tel. 9927.

*Gray, John L. Asst. Ext. Forester, For. Dept. 307 Ricks 270
Residence: 2405 Clark Ave.

*Gray, Mrs. Margaret G.—Clerk, Clark Infirmary ..... Tel. 7615
Residence: 914½ W. Johnson St. Tel. 4758.

Greaves, R. E.—Asst. Prof., Poul Sc. Poul. Dept. 202 Ricks 280
Residence: 2512 Clark Ave. Tel. 2-0019.

*Greaves-Walker, A. F.—Prof. and Head, Ceramic Engr. Dept.
Ceramic Bldg. 249
Residence: 305 Forest Rd. Tel. 6264.

*Green, R. W. Assoc. Prof., Econ. Dept. 113 Peele 223
Residence: 3328 White Oak Rd. Tel. 8460.

Greene, Minda Sec., Dean's Office, Basic Div. 103 Peele 223
Residence: 2303 Clark Ave. Tel. 8083.

*Greene, R. E. L.—Assoc. Agr. Economist, Agr. Econ. Dept.
204-B Patterson 308
Residence: 2811 Barmettler. Tel. 8700.

*Gregory, Walton C.—Assoc. Prof. Agronomy, Plant Breeding, Agron. Dept. 314-1911 324
Residence: Cary, Route 1. Tel. 3-3222.

*Grimshaw, A. H.—Head, Tex. Chem. and Dyeing Dept. School of Tex. No. 1 Tex. Bldg. 288
Residence: Mansion Park Hotel. Tel. 7541.

*Grinnells, C. D.—Prof., Dairy Research Section, A. I. Dept. 211 Polk 305
Residence: 409 Dixie Trail. Tel. 2-1305.

*Grover, Elliot B.—Head, Yarn Manufacturing Dept., School of Tex.
111 Tex. 273
Residence: 804 Lake Boone Trail. Tel. 8226.

---

* Married.

Ext.

*Guyot, Mrs. H. M. Sten., Farm Management Dept. 206 Patterson 291
Residence: 18 Horne St. Tel. 3-3970.

*Haig, Frederick M.—Prof., A. H. and Dairying, Dept. of A. I. 114 Polk 268
Residence: 801 Halifax St. Tel. 7146.

*Hall, Ruth B.—Instr., M. L. Dept. 205 Peele 231
Residence: 1804 Sunset Dr. Tel. 5026.

*Halverson, John O.—Assoc., Nutr. Sect., A. I. Dept. 315 Polk 241
Residence :2813 Mayview Rd. Tel. 2-1488.

Hartley, Lodwick C. Prof. and Head, English Dept. 104 Pullen 237

Halyburton, Jeanne Sten., Agron. Dept. 314-1911 324
Residence: 127 Brooks Ave. Tel. 9922.

*Hamilton, C. Horace Head, Rural Sociol. Dept. 135-1911 312
Residence: 3207 Bedford Ave. Tel. 2-3383.

*Hamilton, C. Merrill Supervisor, Student Teaching, Ind. A. Dept., Div. of Teacher Ed. 122 Tompkins 258
Residence: V-2-A Cameron Court Apts. Tel. 7759.

Hamilton, Geraldine Sec., A. I. Dairy Research Sec. 213 Polk 305
Residence: 1541 Sunrise Ave.

*Hancock, Elizabeth O. Sec., Soil Conservation Service. 229-1911 Tel. 3-2531
Residence: 1605 N. Blount St. Tel. 3-1730.

Hand, Douglas Sec., Agr. Ext. Service, Home Demonstration Dept. 203-1911 285
Residence: B-102 Boylan Apts. Tel. 9535.

Harden, Kath Transcript Clerk, Registration Office. 206 Holladay 219
Residence: 1615 Hillsboro St. Tel. 7502.

Hardison, Winfred Lab. Technician, Dairy Research Sect., A. I. Dept. 210 Polk 305
Residence: 2118 St. Mary's. Tel. 6510.

*Hare, W. H. Carpenter, Agr. Engr. Dept. Agr. Engr. Bldg. Tel. 3-1374
Residence: Cary, N. C.

*Harrelson, John William Chancellor. Holladay 210
Residence: 1903 Hillsboro St. Tel. 6810.

*Harrill, L. R. State 4-H Club Leader. 201 Ricks 214
Residence: 1607 Iredell Dr. Tel. 7628.

*Harris, John H. Specialist, Hort. Dept. 302 Polk 275 & 318
Residence: 701 Brooks Ave. Tel. 2-2900.

*Harris, R. J.—Asst. Dir., Central Sta. Farm, Exp. Sta. Tel. 8901
Residence: Western Blvd. Tel. 8901.

Harrison, Helen K. Sec., Nutrition Sect., A. I. Dept. 116 Polk 320
Residence: 209 West Park Dr. Tel. 5404.

Harrison, Thomas Perrin Dean Emeritus of the College. English Dept. 106 Peele 223
Residence: 59 Edgemont Rd., Asheville, N. C.

---

* Married.

Ext.

*Hart, T. R. Prof. and Head, Weaving and Designing Dept., School of Tex. 107 Tex. 273
Residence: 501 W. Whitaker Mill Rd. Tel. 2-1653.

Hartley, Lodwick C.—Prof. and Head, English Dept. 104 Pullen .. 237
Residence: 812 E. Gardner Drive. Tel. 6289.

*Hartsock, Georgia C.—Clerk, Business Office. "B" Holladay 316
Residence: 205 Chamberlain St. Tel. 2-3882.

*Hartwig, E. E.—Res. Asst. Prof. Agron., Plant Breeding, Agron. Dept. 314-1911 ..... 324 & 262
Residence: 2824 Bedford Ave. Tel. 3-3063.

*Harvey, Paul H.—Res. Prof. Agron., Plant Breeding, Agron. Dept. 112 Withers 263
Residence: 2706 Everett Ave. Tel. 2-0475.

*Hayes, A. C.—Asst. Prof. of Tex. Chem. School of Tex. 2 Tex. ... 278
Residence: 3008 Ruffin St. Tel. 2-3851.

Haywood, Miss Nettie D.—Sec., Agr. Exp. Sta. 109-A Patterson ... 211
Residence: 821 Wake Forest Road. Tel. 4206.

*Heartt, Mrs. Charles I. In Charge, Bureau of Corresp. Instr., College Ext. Div. 201-4 Library 260
Residence: 128 S. Dawson St. Tel. 4057.

*Hebert, Teddy T.—Asst. Pathologist, Botany Dept. 212 Withers ... 310
Residence: 1104 Glenwood.

*Heck, C. M.—Prof. and Head, Physics Dept. 112 Daniels 229
Residence: 200 Hawthorne Rd. Tel. 9829.

*Hendrix, J. Max State Admin. Asst., Soil Conservation Ser. 232-1911 ..... Tel. 3-2531
Residence: 18 Maiden Lane. Tel. 3-1548.

Henson, Ruth S. Bookkeeper, Busines sOffice. 106 Holladay 298
Residence: 116½ Horne St. Tel. 7449.

Hicks, Madie Belle—Sec., Chem. Dept. 108 Withers 265
Residence: 926 N. Boylan Ave. Tel. 5781.

*Hicks, William Norwood Prof. and Head, Ethics and Religion Dept. 204 Peele 231
Residence: 2505 Vanderbilt Ave. Tel. 7750.

Hill, Randolph (Miss)—Sten., Agron. Dept. 120 Ricks 262
Residence: 2200 Hope St. Tel. 2-3466.

*Hilton, James Harold Head, A. I. Dept. 116 Polk 320
Residence: Dixie Trail-Extended. Tel. 2-2460.

*Hilton, John T.—Prof. of Tex., School of Tex. 301 Tex. 287
Residence: 1610 Ambleside Dr. Tel. 6936.

*Hiner, Foy Pate (Mrs.)—Cashier, Cafeteria. Steward's Office. Tel. 2-2043
Residence: Cary, N. C., Rt. 1.

*Hines, T. I.—Asst. Prof., Swim. and Cross Country Coach. Phys. Ed. and Ath. Dept. Gym 218
Residence: 5½ Dixie Trail. Tel. 2-1139.

---

* Married.

Ext.

*Hinkle, L. E. Head, M. L. Dept., and Dir., Transl. Ser. 203 Peele .. 231
Residence: 1714 Park Dr. Tel. 2-0380.

*Hinson, Zona G.—Bookkeeper, Business Office. 103 Holladay 316
Residence: 3314 Pollock Place. Tel. 5195.

Hobbs, James E.—Farm Forester, For. Ext. Dept. 307 Ricks 270
Residence: 203 Watauga Hall. Tel. 9132.

*Hobby, Arlene B.—Mail Clerk, Publications Dept. 15 Ricks 254
Residence: 919 W. South St. Tel. 2-2702.

Hodge, M. Glynn—Sec., Ind. Arts Dept. Teacher Ed. Div.
123 Tompkins ..... 258 & 286
Residence: Knightdale, N. C. Co. 5302.

*Hoefer, E. G. Prof., M. E., M. E. Dept. 205 Page 302
Residence: F-3 Raleigh Apts. Tel. 7072.

*Hoffman, Mrs. F. B. Sten., Agr. Ext. Ser. ..... Tel. 3-3882
104 Ricks 213
Residence: Andrew Johnson Hotel. Tel. 4466.

*Hoffman, W. H.—Clerk, Ser. Dept. Warehouse 272
Residence: 217 Hawthorne Rd. Tel. 7366.

Hofmann, Julius V.—Dir., Div. of For. 301 Ricks 270
Residence: 2800 Fairview Rd. Tel. 2-2993.

*Holler, Dan F. Ext. Cotton Marketing Specialist, Agr. Ext. Ser.
211 Patterson 306
Residence: 2807 Mayview Rd. Tel. 3-1343.

Holler, Nancy L.—Sten., Program Planning Dept. 309-1911 292
Residence: 3201 Clark Ave. Tel. 2-2262.

Honeycutt, Roylene H. Sec., History Dept. 104 Peele 200
Residence: N. Main St., Fuquay Springs, N. C. Tel. 168.

*Hooke, Robert—Asst. Prof., Math. Dept. 209 Tompkins 226
Residence: 5 Pogue St. Tel. 2-0491.

*Hopkins, John I.—Asst. Prof., Physics. 208 Daniels 229
Residence: 2502 Rosedale Ave. Tel. 8995.

*Horan, Mrs. Helen B. Sec., E. E. Dept. 201 Daniels 236
Residence: 2202 Hillsboro St. Tel. 4509.

*Hostetler, Earl H.—Prof. and Head, A. H. Sect., A. I. Dept.
215 Polk ..... 276 & 326
Residence: 2524 White Oak Rd. Tel. 5794.

Hudgins, Madge—Sten., Seed Imp., Agron. Dept. 311 Ricks 207
Residence: 402 Horne St. Tel. 2-2129.

*Hunt, C. Lindsey—Soil Scientist, Soil Conservation Ser.
226-1911 ..... Tel. 3-2531
Residence: Country Club Homes. Tel. 3-1428.

*Hunter, Mrs. J. B.—Relief Operator, College Tel. Ex. 117 Winston 0
Residence: 2211 Hope St. Tel. 8971.

Hunter, Willie (Miss)—Ext. Spec. in Clothing. Agr. Ext. Ser.
Home Demonstration Dept. 220-1911 242
Residence: 825 Holt Drive. Tel. 8430.

* Married.

Ext.

Hyde, Thomas E. Instr., M. E. Dept. 207 Page 302
Residence: 311 Forest Rd. Tel. 7829.

*Ivey, L. L. Manager, Students Supply Store. Y.M.C.A. Tel. 2-3674 & 225
Residence: 202 E. Park Drive. Tel. 8210.

*James, H. Brooks—Agr. Economist, Agr. Econ. 206 Patterson ... 291
Residence: 2810 Mayview Rd. Tel. 3-2365.

*Jensen, James H. Plant Pathologist, Botany Dept. 219 Winston .. 267
Residence: R.F.D. 1, Raleigh. Tel. County 116-5622.

*Jernigan, E. C.—Asst. State Conservationist, Soil Conservation Ser. 234 1911 ..... Tel. 3-2531
Residence: 2809 Kittrell Drvie. Tel. 2-1267.

*Jeter, Frank H. Dir., College News Bureau; Editor, Publications and Publicity. 1 Ricks 279
Residence: 304 Forest Rd. Tel. 6518.

*Johnson, E. M. Custodian Gym. and Supplies, Dept. of Phys. Ed. and Ath. Gym 218
Residence: 9 Dixie Trail. Tel. 3-1506.

Johnson, Robbie (Miss) Sec., Business Office. 105 Holladay 295
Residence: 230 E. Park Drive. Tel. 2 1686.

Jones, Alice Clerk, Voc. Ed. Dept. 105 Tompkins 311
Residence: Cary, N. C. Tel. 2676.

*Jones, Ivan D. Biochemist, Hort. Dept. 305 Polk ..... 275 & 318
Residence: 2710 Rosedale Ave. Tel. 2-3091.

Jones, Louise Sten., Dept. of Voc. Ed. 106 Tompkins 282
Residence: Cary, N. C. Tel. 2521.

Jones, Mabel M.—Clerk, Soil Conservation Ser. 239-1911 .... Tel. 3-2531
Residence: 944 Harp Terrace. Tel. 8178.

Jones, Margaret Sec., Poul. Dept. 216 Ricks 280
Residence: B-301 Boylan Apts. Tel. 3-1129.

*Jones, Mrs. W. Bryce Clerk, Business Office. "B" Holladay 278
Residence: Cary, N. C.

Jordan, Betty W.—Sec., Ag. Ed. Dept., Div. of Teacher Ed. 103 Tompkins 257
Residence: Cary, N. C. Tel. 2172.

Jordan, Pauline—Chief Clerk, Soil Conservation Exp. Sta. 228-1911 ..... Tel. 2-3579
Residence: 18 Horne St.

*Jordan, W. E. Assoc. Prof. of Chem., Chem. Dept. 106 Withers .. 265
Residence: 2600 Rosedale Ave. Tel. 2-3574.

*Judd, Mrs. Lilly B.—Clerk, Office of Dir. of Agr. Exp. Sta. 109-C Patterson 315
Residence: 309 E. Morgan St. Tel. 8970.

*Kaufman, Clemens M. Asst. in For., For. Dept. 303 Ricks 270
Residence: 2705 Kilgore Ave.

*Keever, Leroy Monroe—Assoc. Prof., E. E. Dept. 106 Daniels 235
Residence: 2200 Carroll Dr. Tel. 9818.

---

* Married.

Ext.

*Kelley, Jack A. H. Ext. Specialist. 203 Park 269
Residence: 24 Dixie Trail. Tel. 5648.

Kendrick, Alma—Sec., Graduate School. 104 Zoology 239
Residence: 105 Harrison Ave. Tel. 7652.

*Kerr, E. G.—Supt. of Dairy, A. I. Dept. ..... Tel. 2-1429
Residence: Dairy Farm Cottage. Tel. 2-1429.

*Kerr, Thomas—Cytologist, Cotton Fiber Investigations. 105 Polk .. 300
Residence: 3401 Clark Ave. Tel. 2-2101.

*Kime, P. H. Res. Assoc. Prof. Agron., Plant Breeding, Agron. Dept.
112 Ricks 262
Residence: 2717 Vanderbilt Ave. Tel. 2-2126.

*Kimrey, A. C.—Ext. Dairyman, Dairy Ext. Div. 104 Polk 277
Residence: 220 E. Park Dr. Tel. 2-0856.

*Kincheloe, Henderson G. Asst. Prof., English Dept. 103 Pullen .. 237
Residence: 222 Hawthorne Rd. Tel. 5120.

*King, E. S. Gen. Sec., YMCA. YMCA, 2nd Floor ..... Tel. 7184
Residence: 121 Chamberlain St. Tel. 4511.

King, Nora Lillington—Sec. to the Chancellor. "A" Holladay 210
Residence: 205 Woodburn Rd. Tel. 2-1698.

Klapp, Ruth Clerk-Sten., Soil Conservation Ser. 240-1911 ... Tel. 3 2531
Residence: 114 E. Park Dr. Tel. 8682.

*Kovac, Theodora Sen. Stat. Clerk, Exp. Stat. Dept.
105-A Patterson 313
Residence: D-1-A Cameron Court Apts. Tel. 4445.

*Krantz, B. A.—Res. Asst. Prof. Agron., Soil Fertility, Agron. Dept.
310 Withers 222
Residence: 2632 Kilgore Ave. Tel. 3 3846.

*Kulash, Walter M.—Asst. Prof., Assoc. Entomologist, Zool. and
Entomol. Dept. 106 Zoology 239
Residence: 28 Bagwell Ave. Tel. 7407.

*Kutschinski, C. D. Dir. of Music. 10 Holladay 251
Residence: 1500 Hillsboro St. Tel. 5427.

*Ladu, Arthur I. Prof., English Dept. 105 Pullen 237
Residence: 411 Horne St. Tel. 2-0709.

*Lambe, C. M. Asst. Prof., C. E. Dept. 219 C. E. 303
Residence: 413 Calvin Rd. Tel. 6565.

*Lampe, John Harold Dean, School of Engineering. 122 C. E. 216
Residence: 2201 White Oak Rd. Tel. 2-1254.

*Lancaster, Elizabeth D.—Jr. Acct., Vocational Ed. 105 Tompkins . 311
Residence: 407 N. Person St. Tel. 5896.

Lancaster, Alice M. Sten., School of Textiles. 108 Tex. 273
Residence: 16 N. East St. Tel. 6787.

*Lancaster, Forrest W.—Assoc. Prof., Physics Dept. 206 Daniels .. 229
Residence: 2403 Everett Ave. Tel. 6316.

---

* Married.

Ext.

Lane, Rachel Penn Librarian Abstracter, School of Tex. 104 Tex. 293
Residence: 110 Cox Ave. Tel. 8212.

*Lassiter, J. Y.—Ext. Specialist, Hort. Dept. 301 Polk ..... 275 & 318
Residence: 2624 Kilgore St.

*Leagans, J. P.—Program Planning Specialist, Program Planning Dept. 310 1911 292
Residence: 24 Shepherd St. Tel. 7866.

Leager, Marc C.—Prof., Econ. Dept. 116 Peele 224
Residence: 2718 Bedford Ave. Tel. 6204.

*Lear, John Emery Prof. of E. E., E. E. Dept. "A" Daniels 235
Residence: 1812 Park Dr. Tel. 7701.

Lee, Melva C.—Sten., Physics Dept. 112 Daniels 229
Residence: 2230 Hillsboro St. Tel. 5096.

*Lee, W. D.—Assoc. Prof. Agron., Soil Classification, Agron. Ext. Dept. 206 Ricks 294
Residence: 318 Furches St. Tel. 2-3930.

*Lehman, S. G.—Prof., Plant Pathology, Bot. Dept. 206 Winston ... 267
Residence: 123 Brooks Ave. Tel. 8764.

*Leipold, John A. M Sgt., DEML-ROTC. Post Sgt. Major, Mil. Dept. 3 Holladay 233
Residence: D 2 A Cameron Court Apts. Tel. 3-1524.

*Leonard, Paul B. Asst. Prof., M. E., M. E. Dept. 207 Page 302
Residence: 2804 Barmettler St. Tel. 9692.

*Lewis, J. G. Assoc. Prof. of Tex., School of Tex. 220 Tex. 273
Residence: 518 Dixie Trail. Tel. 7783.

Lineberry, Foy Catalog Librarian. Library 259
Resdience: 203 Forest Rd. Tel. 3-1347.

Lineberry, Lillian Johnson Lab. Tech., Agron. Dept. 5 Withers .. 209
Residence: Rt. 4.

*Lineberry, R. A. Asst. Chemist, Bureau of Mines. Bureau of Mines Bldg. 18 and 19 Withers 319
Residence: 3006 Ruffin St. Tel. 3-1125.

Little, Mamie Lee Sec., Purch Dept. "A" Holladay 230
Residence: 119 Pace St. Tel. 3-3452.

*Livingstone, Mrs. John A. Sec., A. I. Dept., A. H. Section. 215 Polk ..... 276 & 326
Residence: 903 West Johnson St. Tel. 6997.

*Loeppert, Richard H.—Asst. Prof., Chem. Dept. 318 Withers 265
Residence: 301 Forest Rd. Tel. 2-1414.

*Lott, Wreal L. Res. Assoc. Prof. Agron., Soils, Agron Dept.
Residence:

*Lovvorn, R. L.—Prof. Agron., Forage Crops, Agron. Dept. 320-1911 ..... 324 & 262
Residence: 2627 Van Dyke Ave. Tel. 6579.

---

* Married.

Ext.

*Lowen, Walter Instr., M. E. Dept. 105 Page 246
Residence: 2707 Bedford Ave. Tel. 5965.

*Lowen, Mrs. Walter—Lab. Tech., A. I. Dept., Dairy Research Sec. 210 Polk 305
Residence: 2707 Bedford Ave. Tel. 5965.

*Lucas, H. L. Assoc. Prof., Exp. Stat. Dept. 107 Patterson 313
Residence:

Lucas, Ruby—Sten., Div. of Vocational Ed. 111 Tompkins 325
Residence: 11 S. Wilmington St. Tel. 9794.

*Ludington, John R.—Prof. of Education, Head, Ind. Arts Dept., Div. of Teacher Ed. 122 Tompkins 258
Residence: 2620 Churchill Rd. Tel. 5288.

Lutz, J. R.—Prof., Agron., Soils, Agron. Dept. 115 Ricks 262
Residence: Dixie Trail-Extended Tel. 2-2460.

*Lynn, Mrs. D. E.—Sec., Agron. Ext. 208 Ricks 294
Residence: 402 Horne St. Tel. 3-1777.

*Lynn, Hazel Sr. Stat. Clerk, Exp. Stat. Dept. 101 Patterson 313
Residence: Neuse, N. C. Tel. County 6913.

*Lynn, J. T.—Asst. Prof., Physics, Phys. Dept. 108 Daniels 229
Residence: 112 Cox Ave. Tel. 2-3798.

*McAllister, Mary L.—Ext. Economist in Food Conservation and Marketing. Agr. Ext. Service, Home Demonstration. 215-1911 .. 243
Residence: 1425½ Park Dr. Tel. 8715.

*McCaslan, C. L. Agr. Engr. Ext. Specialist, Agr. Engr. Ext. 312 Ricks 274
Residence: 3310 Clark Ave. Tel. 2-3809.

*McCrary, O. F.—Dist. Agt., Agr Ext. Service. 101 Ricks 212
Residence: 127 Brooks Ave. Tel. 9922.

*McCutcheon, F. H. Prof., Zool. Dept. 209 Zoology ..... 261 & 239
Residence: 2721 Van Dyke Ave. Tel. 6453.

*McDonald, Mrs. Mable P.—Clerk, Agr. Ext. Aud. Dept. 105 Ricks .. 271
Residence: 1905 McDonald Lane. Tel. 9920.

*McDuffie, Mrs. Arlesia D.—Asst. Supt. and Cashier, Laundry 283
Residence: 202 Ashe Ave. Tel. 7754.

*McGehee, William Prof. and Head, Psychol. Dept. 124 Tompkins . 286
Residence:

McIver, Julia Asst. Ext. Spec. in Clothing. Agr. Ext. Ser., Home Demonstration Dept. 217-1911 242
Residence: 2202 Ridgecrest Rd. Tel. 2-1904.

McKimmon, Mrs. Jane S.—Asst. Dir., Agr. Ext. Ser. 116 Ricks 262
Residence: 123 New Bern Ave. Tel. 8619.

*McKimmon, Katharine C. Clerk, Agron. Dept. 120 Ricks 262
Residence: E-4, Raleigh Apts. Tel. 6753.

McLean, Grayce—Clerk, Business Office. "B" Holladay 316
Residence: 1508 Hillsboro St. Tel. 6153.

* Married.

Ext.

*McMillen, R. W.—Res. Asst. Prof. Agron., Seed Improvement, Agron. Dept. 111 Withers 263
Residence: 2704 North Dr.

*McMillin, Douglass N.—Col., Infantry, PMS&T, ROTC, and Commandant, ASTP. 1 Holladay 233
Residence: 209 Woodburn Rd. Tel. 5323.

McVay, Francis E.—Agr. Statistician, Bureau of Agr. Econ., USDA. 104 Patterson ..... Tel. 3-2454
Residence: 2716 Rosedale Ave. Tel. 2-3396.

*Maddison, C. W.—Foreman, Foundry. M. E. Dept. Shop 245
Residence: 301 Furches St. Tel. 2-3775.

Maddrey, Ellen Lab. Technician, Agron. Dept. 9 Withers 209
Residence: The Elms, 220 Hillsboro St. Tel. 9317.

Maddry, Linda—Sec., Math. Dept. 201 Tompkins 227
Residence: Avent Ferry Rd. Tel. 5797.

*Maddux, Henry Asst. Ext. Editor. 9 Ricks 279
Residence: 2404 Everett Ave. Tel. 2-1032.

*Magarian, Vahn K.—1st Lt. AGD. Classification Officer, Mil. Dept. 2 Holladay 233
Residence: F-203 Boylan Apts. Tel. 4265 or 4757.

*Mancari, Sebastian A. Sgt., DEML-ASTP. Personnel Clerk. Mil. Dept. 3 Holladay 233
Residence: 11 Dixie Trail. Tel. 2-3206.

*Mann, C. L.—Prof. and Head, C. E. Dept. 211 C. E. 303
Residence: 1702 Hillsboro St. Tel. 6825.

*Marlowe, Mrs. Thomas J. Sec., Publications. 5 Ricks 279
Residence: 202 Groveland Ave. Tel. 3-3761.

*Marshall, Roger Powell—Prof., English Dept. 104 Pullen 237
Residence: 1512 Park Dr. Tel. 5297.

Martin, A. M.—Jr. Admin. Asst., Soil Conservation Ser. 238-1911 ..... Tel. 3-2531
Residence: 2 Logan Court. Tel. 2-2673.

Mason, Edna Belle—Sec., C. E. Dept. 210 C. E. 303
Residence: 113½ Chamberlain St. Tel. 2-3994.

Mason, Eleanor H. Sec., Agr. Ext. Ser. Home Demonstration. 207-1911 244
Residence: Boylan Apts., A-103.

*Matrone, Gennard Chemist, U. S. Dept. of Agr., Nutrition Section. 311 Polk 241
Residence: Western Blvd., Rt. 4. Tel. 2-1717.

*Maupin, C. J.—Ext. Poul. Specialist, Poul. Ext. Dept. 210 Ricks . 321
Residence: 2806 Hillsboro St. Tel. 3-3671.

*Maupin, Mrs. T. K. Sec., Ceramic Engr. Dept. Ceramic Bldg. ... 249
Residence: 2725 Bedford Ave. Tel. 2-3003.

*Mayer, W. L.—Dir. of Registration. 208 Holladay 219
Residence: 20 Bagwell Ave. Tel. 2-0027.

---

* Married.

Ext.

*Maynard, Mrs. M. B.—Sec., Div. of Teacher Ed. 119 Tompkins ... 256
Residence: 220 Chamberlain St. Tel. 2-0222.

*Mayo, Selz C.—Rural Sociologist, Rural Sociol. Dept. 139-1911 312
Residence: D-3 Country Club Homes.

*Mayton, R. W. Carpenter Foreman. Service Dept. Warehouse 272
Residence: Cary, N. C. Tel. 2863.

*Meacham, H. L.—In Charge, Marketing Ext. Agr. Ext. Ser.
211 Patterson ... 306

*Meares, J. S. Assoc. Prof., Physics Dept. 206 Daniels 229
Residence: 2408 Everett Ave. Tel. 4594.

*Meekins, E. N.—Dist. Supervisor, Voc. Ed. Dept. 106 Tompkins ... 282
Residence: Cary, N. C. Tel. 2591.

*Mehlich, Adolf—Res. Assoc. Prof. Agron., Soil Chemistry. Agron.
Dept. 111 Polk ... 220
Residence: Oakland Rd.

*Mendenhall, W. G.—Instr., M. E., M. E. Dept. Shop 245
Residence: Cary Rd. Tel. 3-3417.

*Merritt, Rebecca—Sec., Soil Conservation Service. 233-1911.. Tel. 3-2531
Residence: 609 Rosemont Ave. Tel. 7029.

*Metcalf, Z. P.—Assoc. Dean of Grad. School. Head, Zool. and Entom.
Dept. 101 Zoology ... 239
Residence: 315 Forest Rd. Tel. 2-3788.

*Michelsen, Gerald L. 1/Sgt., DEML-ASTP. Sgt. Maj., 1st Bn.
ASTP. Mil. Dept. 106 Syme ... 203
Residence: 101 E. Park Dr. Tel. 3-2100.

*Middleton, Gordon K.—Prof. of Agron., Head, Field Crops Section.
Agron. Dept. 119 Ricks ... 262
Residence: 2830 Barmettler St. Tel. 2-2313.

*Miller, E. L., Jr. Asst. Prof. Geol., Geol. Dept. 2 Primrose 304
Residence: Leesville Rd. (Rt. No. 6).

*Miller, F. E.—Dir. of Test Farms, N. C. Dept. of Agr.
Agr. Bldg. ... Tel. 6611, Ext. 560
Residence: 1628 Park Dr. Tel. 7180.

*Miller, J. F. Prof. and Head, Phys. Ed. and Ath. Dept. Gym 218
Residence: 191 Chamberlain St. Tel. 5823.

*Miller, William D.—Assoc. Prof., For. Dept. 303 Ricks 270
Residence: 1907 Victoria Rd. Tel. 2-1066.

*Mitchell, Adolphus—Assoc. Prof., Engr. Mechanics Dept. 204 C.E. 303
Residence: 1614 Ambleside Dr. Tel. 2-2412.

Mitchell, Mary Frances—Mail Clerk, Publications. 15 Ricks 254
Residence: 2015 Fairview Rd. Tel. 2-1026.

*Mitchell, T. B.—Prof., Zool., Zool. Dept. 103 Zoology 239
Residence: 1007 W. Peace St. Tel. 6967.

*Moen, R. O.—Prof., Business Admin. Economics Dept. 113 Peele ... 223
Residence: 3202 Clark Ave. Tel. 5051.

---

* Married.

Ext.

Monk, Martha M. Sec., News Bureau, Pub. Dept. 13 Ricks 253
Residence: 1719 Park Dr. Tel. 2-1245.

*Moore, Chas. Albert Petigru Instr., English Dept. 7 Pullen.
Residence: Boylan Apts. C-302. Tel. 2-2713.

Moore, Frances M.—Lab. Technician, Hort. Dept. Greenhouse 240
Residence: 1307 Hillsboro. Tel. 9502.

*Moore, J. H.—Res. Assoc. Prof., Agron., Cotton Technology. Agron. Dept. 317 Ricks 207
Residence: 2713 Bedford Ave. Tel. 2-3638.

*Moore, James L. Asst., A. I., Dairy Sect., A. I. Dept. 213 Polk .. 305
Residence: 3218 Bedford Ave. Tel. 2-0821.

*Moore, R. P. Res. Assoc. Prof. Agron., Seed Improvement. Agron. Dept. 315 Ricks 207
Residence: 216 Chamberlain St. Tel. 6881.

Morgan, Anna Jo Clerk, Rural Sociol. Dept. 135-1911 312
Residence: 413 Dixie Trail. Tel. 6037.

*Morgan, G. Daylon—Clerk, Central Stores. Warehouse 272
Residence: Clayton, N. C. Tel. 2041.

*Morgan, John W.—Instr., Chem. Dept. 115 Withers 265
Residence: 2614 Van Dyke Ave. Tel. 8608.

Morris, Jean—Clerk, Agr. Exp. Station. 109 Patterson 315
Residence: 2509 Vanderbilt Ave. Tel. 5319.

*Morris, W. F.—Director of Services, Service Dept. Warehouse 272
Residence: 2509 Vanderbilt Ave. Tel. 5319.

*Morrow, E. B. Assoc. Horticulturist. Hort Dept. 309 Polk.. 275 & 318
Residence: 2712 Vanderbilt Ave. Tel. 2-1952.

*Mumford, C. G. Prof., Math. Dept. 224 Tompkins 228
Residence: 712 Brooks Ave. Tel. 5315.

Murakishi. Harry—Research Fel., Plant Pathology. Bot. Dept. 215 Winston 267
Residence: 2510 Vanderbilt Ave. Tel. 2-1606.

*Murray, W. M.—Auditor, Business Office. "B" Holladay 298
Residence: T-3-B Cameron Court Apts. Tel. 2-3525.

*Neely, John K.—Clerk, Students Supply Stores. YMCA Tel. 2-3674 or 225
Residence: 2406½ Hillsboro St. Tel. 2-1268.

*Nelson, Mrs. E. R.—Sec., Engr. Mech. Dept. 101 C. E. 317
Sec., Geol. Dept. 1 Primrose 304
Residence: 3413 Hillsboro St. Tel. 3-2080.

Nelson, Thomas—Dean Emeritus, School of Textiles. 105 Tex. 273
Residence: 16 Enterprise St. Tel. 2-2247.

*Nelson, W. L.—Res. Assoc. Prof. Agron., Soil Fertility. Agron. Dept. 310 Withers 222
Residence: 2710 Van Dyke Ave. Tel. 3-3748.

*Nesbit, W. B.—Turkey Research, Poultry Dept. Turkey Plant.
Residence: Marcom Ave. Tel. 3-1587.

---

* Married.

Ext.

*Newman, Mrs. C. L.—Sec., Dept. of A. I., A. H. Sect. 215 Polk . 276 & 326
Residence: 1618 Oberlin Rd. Tel. 2-0912.

Newton, Foy—Sec., Agr. Ext. Ser. 101 Ricks 212
Residence: 319 New Bern Ave. Tel. 2-2096.

*Nichols, J. Hervey—Lab. Technician, E. E. Dept. 9 Daniels 235
Residence: 2820 Mayview Rd. Tel. 9776.

*Niswonger, H. R.—In Charge, Hort. Ext., Hort. Dept. 301 Polk 275 & 318
Residence: A-2-A Cameron Court Apts. Tel. 2-3297.

Norman, Kathryn—Tech. Asst., Exp. Stat. Dept. 101 Patterson ... 313
Residence: 622 Hillsboro St. Tel. 9687.

O'Neal, Dorothy Clerk, Dormitory. Warehouse 272
Residence: Wendell, N. C. Tel. 3226.

*Paget, Edwin H.—Assoc. Prof. of Speech, English Dept. 109 Pullen 237
Residence: 2733 Everett Ave. Tel. 2-3495.

*Park, Hubert V.—Assoc. Prof., Math. Dept. 222 Tompkins 228
Residence: 404 Chamberlain St. Tel. 2-3589.

*Parrish, C. F.—In Charge, Poul. Ext. 208 Ricks 321
Residence: Western Blvd. Tel. 2-2888.

*Pate, Rudolph—News Editor, News Bureau. 13 Ricks 253
Residence: 2206 Hope St. Tel. 8963.

Patten, Elizabeth Admissions Clerk, Registration Office.
207 Holladay 219
Residence: 13 Furches St. Tel. 6452.

*Patton, Carlotta P.—Instr., Math. Dept. 205 Tompkins 226
Residence: 2612 Clark Ave. Tel. 3-2317.

*Patton, James W.—Head, Hist. and Polit. Sc. Dept. 102 Peele 200
Residence: 2612 Clark Ave. Tel. 3-2317.

*Paulson, Jehu D.—Prof., Arch. Dept. 315 Daniels 250
Residence: 2705 Everett Ave. Tel. 8823.

*Peach, Paul—Indus. Statistician, Exp. Stat. Dept. 103 B Patterson 313
Residence: 1908 Park Dr. Tel. 5406.

Pearsall, Elizabeth—Lab. Technician, Agron. Dept. 5 Withers 209
Residence: Boylan Apts., F-102.

*Pearsall, Robert James—Asst. Prof., E. E. Dept. 106 Daniels 235
Residence: 2312 Hillsboro St. Tel. 3-2404.

Pearson, Ruby S.—Asst. State 4-H Club Leader, 4-H Dept. 201 Ricks 214
Residence: D-303 Boylan Apts.

*Peeler, R. J.—Asst. Supv., Voc. Agr. Dept. 107 Tompkins 282
Residence: 2812 Kilgore St. Tel. 2-3649.

*Peirce, Frederick T. Dir. of Tex. Research, School of Tex.
116 Tex. 327
Residence: 126 Forest Rd. Tel. 2-0293.

*Pennington, Mildred C.—Sr. Stat. Clerk, Bureau of Agr. Ec.
101 Patterson 313
Residence: 611 Gaston St. Tel. 7611.

* Married.

Ext.

*Peterson, Walter J.—Prof. and Head, Nutrition Sec., A. I. Dept. 116 and 314 Polk ... 320 & 241
Residence: 1121 Harvey St. Tel. 3-1651.

Phelps, (Mrs.) Elaine T. Sec. to Dean of Engr. 122 C. E. ... 216
Residence: 15 Enterprise St. Tel. 8433.

Phelps, W. R. Clerk, Service Dept. Warehouse ... 272
Residence: 217½ N. Bloodworth St. Tel. 6688.

*Phillips, Llewellyn B. In Charge, Print. and Supplies, Pub. Ext. 21 Ricks ... 254
Residence: 2809 O'Berry St. Tel. 8437.

*Piland, J. R. Assoc. Prof., Agron., Soil Chem., Agron Dept. 5 Withers ... 209
Residence: 2406 Stafford Ave. Tel. 9511.

Pillsbury, J. P.—Prof., Land Arch. Dept. 204 Polk ... 296
Residence: 2715 Hillsboro St. Tel. 6694.

Pleasant, Maythorne Clerk-Sten., Soil Con. Ser. 239-1911 Tel. 3-2531
Residence: 1222 Courtland Dr. Tel. 9522.

Poe, Herbert Vernon Instr., E. E., E. E. Dept. 105-B Daniels ... 235
Residence: 125 Woodburn Rd. Tel. 2-1462.

Poole, Mary Elizabeth Reference and Document Librarian. Library ... 259
Residence: 221 Hawthorne Rd. Tel. 2-3742.

Porter, Sarah Research Instr., Exp. Stat. Dept. 107 Patterson ... 313
Residence: 700 N. East St. Tel. 7408.

Powell, Geo. B. Athl. Trainer, P. E. and Athl. Dept. Fieldhouse Tel. 6934
Residence: Fieldhouse. Tel. 6934.

Pressly, Harriet Byrne Research Asst., Nutrition Sec., A. I. Dept. 314 Polk ... 241
Residence: 526 N. Wilmington St. Tel. 5024.

Price, E. W., Jr. Instr., C. E., C. E. Dept. 208 C. E. ... 303
Residence: 2707 Van Dyke Ave. Tel. 8283.

Proctor, Lucile Ext. Artist, Publications. 21 Ricks ... 254
Residence: 745 Hillsboro St. Tel. 4222.

Production and Marketing Administration AAA Building ... Tel. 2-0544

*Randall, Glenn O.—Prof., Hort. Dept. 305 Polk ... 275 & 318
Residence: Rt. 6. Tel. County 6211.

*Randolph, Dr. E. E.—Prof., Chem. E. Dept. 106 Winston ... 309
Residence: 212 Groveland Ave. Tel. 8992.

*Rankin, W. H.—Res. Assoc. Prof. Agron., Soil Fertility, Agron. Dept. 114 Ricks ... 262
Residence: 2408 Stafford Ave. Tel. 8057.

*Rautenstrauch, Robert F. Assoc. Prof., Aero Dept. Aero Bldg. ... 248
Residence: Lewis Farm Rd.

*Ray, M. E. Instr., C. E. Dept. 208 C. E. ... 303
Residence: 317 Calvin Rd. Tel. 4749.

---

* Married.

Ext.

Reavis, Mary Ruth Jr. Stat. Clerk, Exp. Stat. Dept. 101 Patterson 313
Residence: 3202 Hillsboro St. Tel. 5762.

*Reed, J. F. Res. Prof. Agron., Soil Chemistry, Agron. Dept.
114 Ricks 262
Residence: 118 Horne St. Tel. 2-1962.

*Reid, W. A.—Assoc. Prof., Chem. E. Dept. 311 Withers . . . . . 265 & 222
Residence: Dixie Trail. Tel. 2-3157.

Rice, Robert B. Prof., M. E.; Dir., Diesel Engr. 107 Page 323
Residence: 2712 Cambridge Rd. Tel. 2-1195.

*Rich, L. M.—Asst. Football, Track Coach, P. E. and Athl. Dept.
Field House . . . . . Tel. 6934
Residence: Y-2, 2628 Kilgore St.

*Riddle, A. A. Supt., Power Plant. Power Plant 234
Residence: 2805 Bedford Ave. Tel. 2-2706.

Riggs, Hazel—Sec., Chem. E. Dept. 111 Winston 301
Residence: 119 Pace St. Tel. 3-3452.

*Rigney, J. A. Prof., Exp. Stat. Dept. 103-A Patterson 313
Residence: 712 Brooks Ave. Tel. 5047.

Riley, Jeanette Sten., Bot. Dept. 220 Winston 267
Residence: 2304 Clark Ave. Tel. 7001.

Riley, Phyllis B. Clerk, Ext. Studies. 108 Ricks 255
Residence: 20 Ferndell Lane. Tel. 5334.

*Ritchey, Wilbert S.—Corporal, DEML-ASTP. Truck Driver and
Asst. Sup. Sgt., Mil. Dept. Armory 232
Residence: 1904½ Hillsboro St. Tel. 2-1158.

Rives, Sarah Leigh Asst. Bookkeeper, Students Supply Stores.
YMCA . . . . . Tel. 2 3674
Residence: 2230 Hillsboro St.

*Roberts, William M.—Assoc., Dairy Mfg. Sect. A. I. Dept. 211 Polk 305
Residence: 20 Bagwell Ave. Tel. 9814.

*Robinson, Allyn P.—Instr., English Dept. 7 Pullen 237
Residence: King Charles Rd. Tel. 2-0731.

*Robinson, Glenn H.—Soil Surveyor, Agron. Dept. 206 Ricks 294
Residence:

*Rogers, Robert Asst., Greenhouse, Hort. Dept. Greenhouse 240
Residence: 113 N. Wilmington St. Tel. 8683.

Rondeau, H. C. Kitchen Mgr., Boarding Dept. Leazer Hall Tel. 2-0243
Residence: 115 Oberlin Rd.

Rowe, Anna C. Agr. Ext. Ser., Home Demonstration. 307-1911 . 244
Residence: A-202 Boylan Apts. Tel. 9520.

Rowe, Beatrice Sec., English Dept. 104 Pullen 237
Residence: 1709 Hillsboro St. Tel. 9802.

*Rowland, Macon R. Instr., Diesel Engr. 109 Page 246
Residence: 2520 Clark Ave. Tel. 2-3475.

---

* Married.

Ext.

*Ruffner, R. H.—Prof., A. H. and Dairying, A. I. Dept. 115 Polk .. 268
Residence: 1910 Park Dr. Tel. 2-0746.

*Ruggles, Edward W.—Dir., College Ext. Div. 201-4 Library 238
Residence: 2411 Everett Ave. Tel. 2-1812.

*Statterfield, G. Howard Prof. of Biochem., Chem. Dept.
201 Withers 264
Residence: 407 W. Park Dr. Tel. 2-2963.

*Schaub, I. O.—Dir., Agr. Ext. Ser. 104 Ricks ..... Tel. 3-3882 & 213
Residence: Western Blvd. Tel. 8610.

Schoenborn, Edward M., Jr. Prof. and Head, Chem. E. Dept.
111 Winston 301
Residence: 2512 Kenmore Dr. Temporary Tel. 8956.

Scholz, Ruby Asst. Ext. Economist in Food Conserv. and Marketing, Agr. Ext. Serv., Home Demonstration Dept. 216-1911 243
Residence: 15 Henderson. Tel. 4281.

Scott, D. J.—Bookkeeper, College Ext. Div. 201 Library 260
Residence: 1418 Park Dr. Tel. 2-0040.

*Scott, G. T. Dir., Prod. and Mkt. Adm. 101 AAA Bldg. .... Tel. 2-0544
Residence: Selma, N. C.

*Scott, Mrs. J. K. Sec., Agr. Ext. Ser. 104 Ricks ..... Tel. 3-3882 & 213
Residence: 1505 Caswell St. Tel. 7931.

Scott, Nancy—Multilith Operator, Pub. Dept. 21 Ricks 254
Residence: 116 St. Mary's St., No. 3. Tel. 2-0885.

*Seagraves, W. P. Asst. Prof., Math. Dept. 224 Tompkins 228
Residence: 406 Chamberlain St. Tel. 8357.

Sebastian, Kic K.—Research Asst., Rural Sociol. 135-1911 312
Residence: 1710 Park Dr. Tel. 2-1387.

*Seegers, L. Walter Asst. Prof., History Dept. 114 Peele 200
Residence: 2701 Mayview Rd. Tel. 6238.

*Seely, J. Frank—Asst. Prof., Chem. E. Dept. 105 Winston 301
Residence: 2815 Barmettler St. Tel. 2-3096.

*Selkinghaus, W. E.—Assoc. Prof., M. E. Dept. 103 Page 246
Residence: 801 Chamberlain St. Tel. 2-2778.

*Senter, C. T.—Chief Clerk, Students Supply Stores.
YMCA ..... Tel. 2-3674 & 225
Residence: 907 W. Lenoir St. Tel. 4034.

Senter, Mary Ellen—Asst. in Circulation Dept. Library 259
Residence: 213 Woodburn Rd. Tel. 6656.

*Shanklin, J. A.—Assoc. Prof. Agron., Agron. Dept. 204 Ricks 294
Residence: 406 Brooks Ave. Tel. 3-1058.

*Shelley, A. Bernard R.—Asst. Prof., English Dept. 106 Pullen 237
Residence: 810 Chamberlain St. Tel. 6235.

*Sherwood, F. W.—Assoc., Nutrition Sec., A. I. Dept. 317 Polk 241
Residence: 318 N. Boundary St. Tel. 2-0128.

---

* Married.

Ext.

*Shinn, W. E.—Prof. of Tex., School of Textiles. 103 Tex. 289
Residence: 2709 Bedford Ave. Tel. 2-0387.

*Shirley, Mrs. L. M.—Sec., F.F.A., Div. of Voc. Agr. 106 Tompkins 282
Residence: 2515 Clark Ave. Tel. 2-3906.

*Shoffner, R. W. Dist. Agt., Agr. Ext. Ser. 206 Patterson 291
Residence: 2402 Clark Ave. Tel. 7977.

*Showalter, Merle F.—Assoc. Prof., Chem. Dept. 220 Withers 265
Residence: 2820 Barmettler St. Tel. 8858.

*Shulenberger, C. B.—Prof., Accounting, Econ. Dept. 115 Peele 224
Residence: 2501 Stafford Ave. Tel. 7165.

*Shumaker, Meredith Lee—Instr., A. I., Dairy Mfg., A. I. Dept.
211 Polk 305
Residence: 24½ Shepherd St. Tel. 2-1987.

*Shumaker, Ross—Head, Arch. Dept.; College Architect. 315 Daniels 250
Residence: 2744 Rosedale Ave. Tel. 2-1706.

*Shunk, Ivan V.—Prof., Bot. Dept. 211 Winston 267
Residence: 1809 Park Dr. Tel. 7810.

*Simpson, Julia P.—Instr., Math. Dept. 205 Tompkins 226
Residence: 2223 Circle Dr. Tel. 2-1375.

*Sloan, Fred S.—State Program Leader, Prog. Plan. Dept. 311-1911 292
Residence: 1407 Canterbury Rd. Tel. 3-3388.

*Slocum, George K.—Assoc. Prof., For. Dept. 306 Ricks 270
Residence: 226 Woodburn Rd. Tel. 5508.

*Smith, B. W.—Assoc. Prof., Agron. Cytogenetics, Agron. Dept.
336-1911 ..... 324 & 262
Residence: 2707 North Dr. Tel. 9962.

Smith, Clyde F.—Assoc. Entomologist and Assoc. Prof., Zool.
and Zoology ..... 239 & 201
Residence: 2716 Rosedale Ave. Tel. 2-3396.

*Smith, Dorris J.—Sec., Marketing Ext., Agr. Ext. Ser.
211 Patterson 306
Residence: 109 Park Ave. Tel. 2-2533.

Smith, Miss Elsie Lee—Photographic Asst., Pub. Dept. 12 Ricks ... 279
Residence: 2404½ Stafford Ave.

*Smith, Estelle T.—Asst. to State Home Agt., Agr. Ext. Ser. Home
Demonstration. 202-1911 243
Residence: 128 E. Edenton St. Tel. 2-0853.

*Smith, G. Wallace—Prof., Head, E. M. Dept. 101 C. E. 317
Residence: 222 Hawthorne Rd. Tel. 5120.

*Smith, F. H. Asst., Nutrition Sec., A. I. Dept. 316 Polk 241
Residence: 2506 Stafford Ave. Tel. 6798.

Smith, Mrs. Hattie C.—Sec., Ext. Agr. Engr. 318 Ricks 274
Residence: 2402 Everett Ave. Tel. 6814.

*Smith, J. Warren—Assoc. Prof., Div. of Teacher Ed. 101 Tompkins 325
Residence: 2626 Dover Rd. Tel. 2-3654.

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* Married.

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Smith, Pauline N. E. Dist. Home Agt., Agr. Ext. Ser. 204-1911 .. 285
Residence: 105 N. Person St. Tel. 5200.

Spearman, (Miss) Bess Assoc. Nurse. Clark Infirmary .... Tel. 7615
Residence: Carroll House. Tel. 3-1010.

Stamey, H. M. Specialist, A. H. Ext. 203 Polk 269
Residence: K-1-A Cameron Court Apts. Tel. 3-3902.

Stanton, Verna S. E. Dist. Home Agt., Agr. Ext. Ser., Home Demonstration. 208 1911 285
Residence: Raleigh Apts.

*Stevenson, Mrs. Lois A. Lab. Tech., Agron. Dept. 5 Withers 209
Residence: RFD-1, Raleigh. Tel. County 116-5105.

*Stewart, H. A. Assoc. Prof., A. I. Dept. 216 Polk ..... 276 & 326
Residence: 2227 Creston Rd.

*Stewart, H. E. Manager, Cafeteria. Leazer Hall ..... Tel. 2-0243
Residence: 104 Harrison Ave. Tel. 3-1342.

*Stiemke, Robert E. Assoc. Prof., C. E. Dept. 208 C. E. 303
Residence: 1005 Canterbury Rd. Tel. 9970.

*Stinson, E. H. Instr., M. E. Dept. 207 Page 302
Residence: 3411 Hillsboro St. Tel. 2-3231.

*Stinson, W. E. Foreman, Service Dept. Warehouse 272
Residence: 2226 Hillsboro St. Tel. 3-1539.

Stone, Barbara—Sec., Sociol. Dept. 202 Peele 231
Residence: A-8 Wilmont Apts. Tel. 3-3762.

Stott, Estelle Harold—Chief Clerk, Pub. Dept. 3 Ricks 279
Residence: 2208 Hope St. Tel. 7056.

Stott, Juanita Asst. Registrar. 205 Holladay 219
Residence: 2208 Hope St. Tel. 7056.

Stott, Ruth Ediphone Dept. 213-1911 221
Residence: 2208 Hope St. Tel. 7056.

Strickler, Marie—Sec., Zool. Dept. 104 Zoology 239
Residence: 528 New Bern Ave. Tel. 2-2561.

*Strobel, Charles F. Asst. Prof., Math. Dept. 209 Tompkins 226
Residence: 3310 Pollock Place. Tel. 2-3255.

*Stuart, A. D. Ext. Assoc. Prof., Agron., Seed Improvement, Agron. Dept. 119 Ricks 262
Residence: 2704 Clark Ave. Tel. 2-1022.

*Stuckey, J. L. Prof., Head, Geol. Dept. 1 Primrose 304
Residence: 1911 Sunset Dr. Tel. 2-0187.

Sturdivant, Dorothy Sr. Stat. Clerk, Exp. Stat. 101 Patterson ... 313
Residence: 109 N. Boylan Ave. Tel. 3-3432.

*Sumner, Baye—Asst. Purchasing Agt. "A" Holladay 230
Residence: Z-1-B Cameron Court Apts. Tel. 2-3595.

Sutton, Lenora Sten., Bot. Dept. 220 Winston 267
Residence: Cary, N. C. Tel. 2172.

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* Married.

Ext.

*Sutton, Paul Porter Asst. Prof., Chem. Dept. 20 Withers 265
Residence: 908 Canterbury Rd. Tel. 3-2233.

*Swain, Mrs. Virginia Sloan—Ext. Spec. in Family Relations. Home Demonstration Dept. 212-1911 285
Residence: 2268 Circle Dr.

Taylor, Ellen Sec., 4-H Club. 201 Ricks 214
Residence: 1313 Hillsboro St. Tel. 4142.

*Taylor, H. W. Alumni Sec. 201 Holladay 252
Residence: 2820 Bedford Ave. Tel. 2-3274.

*Teachey, A. L.—State Dir., Food Production War Training. Voc. Ed. Dept. 108 Tompkins 311
Residence: 2404 Clark Ave. Tel. 4393.

*Teter, Mrs. Norman C. Lab. Tech., Agron. Dept. 5 Withers 209
Residence: 619 Brooks Ave. Tel. 3-2650.

*Thomas, Horace C. M/Sgt., DEML ROTC; Sup. Sgt., ROTC Mil. Dept. Armory 232
Residence: Powell Dr. Tel. 2-2895.

Thomas, (Miss) Mary E. Ext. Nutritionist, Home Demonstration Agt. Ext. Ser. 210-1911 243
Residence: 221 Hawthorne Rd. Tel. 2-3742.

Thomas, Myrtle L. X Ray and Lab. Tech., Clark Infirmary . Tel. 7615
Residence: Carroll House. Tel. 3-1010.

*Thomas, Roy H.—State Supervisor of Agr. Ed., Div. of Voc. Ed. 106 Tompkins 282
Residence: Raleigh Apts. Tel. 4098.

Thompson, Frances—Sec., Alumni Office. 202 Holladay 252
Residence: 109 E. Whitaker Mill Rd. Tel. 4693.

Thompson, Grace S. Sten. Clerk, Fish and Wildlife Ser. 202 Zool. 261
Residence: 915 N. Blount St.

*Thompson, Marguerite J. Sec., Exp. Stat. 105-A Patterson 313
Residence: 34 Shepherd St. Tel. 2 0951.

*Thornburg, Murray D.—Asst. State Supv., Trade and Ind. Ed. 111 Tompkins 325
Residence: 1510 Woodland Dr. Tel. X 5174.

*Tiddy, Mrs. J. Edwin Clerk, Farm Mgt. Dept. 206 Patterson 291
Residence: 102 Logan Court. Tel. 8894.

*Todd, Furney A. Asst. Plant Pathologist, Bot. Dept. 202 Winston 267
Residence: Powell Dr. Tel. 2 2895.

Trollinger, Ida E. Head Nurse, Clark Infirmary ..... Tel. 7615
Residence: Carroll House. Tel. 3-1010.

Tucker, Louisa Nelson Asst. Research Tech., A. H. Sect., A. I. Dept. 318 Polk 241
Residence: 2316 Hillsboro St. Tel. 6709.

Turner, Anne L. Order Librarian. Library 259
Residence: 903 West Johnson St. Tel. 6997.

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Ext.

U. S. Bureau of Mines A. L. Fox, Acting Chief, Metallurgical Branch. 102-4-1911 ..... Tel. 3-1976

U. S. Geoligacl Survey Lab.—W. L. Lamar, Chemist in Charge. 15 Winston ..... Tel. 3-1022

U. S. Weather Bureau—C. E. Lamoureux, Meterologist in Charge. 112-1911 ..... Tel. 4872

*Vann, J. G. Asst. Controller and Business Mgr. 105 Holladay ... 295
Residence: 1606 Scales St. Tel. 6240.

*Van Note, W. G.—Prof. of Metall., M. E. Dept.; Asst. Dir. of Engr. Exp. Sta. 104 Page 246
Residence: 2214 Whitaker Dr. Tel. 3-1394.

*Vaughn, L. L. Prof. and Head, M. E. Dept. 109 Page 246
Residence: 11 Enterprise St. Tel. 5449.

*Vaughn, Rosemary—Sec., Rural Sociol. 134-1911 312
Residence: 1621 Park Dr. Tel. 8307.

*Veerhoff, Otto Assoc. Horticulturist, Hort. Dept. 309 Polk ... 275 & 318
Residence: 2830 Mayview Rd. Tel. 2-2240.

*Vestal, Herman H. Maj., Inf.; Adjutant, Mil. Dept. 1 Holladay .. 233
Residence: 3130 Stanhope Ave. Tel. 8128.

*Von Glahn, J. L.—Business Mgr. Athletics, Phys. Ed. and Athl. Dept. Gym ..... Tel. 2-2407
Residence: Canterbury Rd. Tel. 3-1828.

Wade, Virginia Sec., Agr. Ext. Ser., Home Demonstration Dept. 223-1911 242
Residence: 2310 Hillsboro St. Tel. 4114.

Wallace, Martha L.—Lab. Technician, School of Tex. 115 Tex. 327
Residence: 1200 Glenwood Ave. Tel. 8114.

Waller, E. M.—Asst. Prof., Physc. Ed. Dept. Gym 218
Residence: 405 Pittsboro St., Chapel Hill. Tel. 8151.

Watson, Emma L. Clerk, Business Office. 106 Holladay 298
Residence: Cary, N. C. Tel. 2841.

*Watson, George Carson Instr., Math. Dept. 223 Tompkins 228
Residence: Apt. 6, 104 Horne St.

*Watson, Lewis P.—Asst. Ext. Ed., Pub. Dept. 9 Ricks 278
Residence: 2809 Bedford Ave. Tel. 2-1626.

*Weaver, D. S.—Head, Agr. Engr. Dept. 316 Ricks 274
Residence: 520 Gardner St. Tel. 4110.

*Weaver, Jno. W., Jr. Research Asso., Agr. Engr., Agr. Engr. Shop ..... Tel. 3-1374
Residence: 414 Morrison Ave.

Weeks, Susie B.—Clerk-Sten., Bur. Agr. Econ., USDA (Exp. Stat.) 104-B Patterson ..... Tel. 3-2454
Residence: 315½ Oakwood Ave.

Weldon, Virginia Asst. Research, Nutrition Sec., A. I. Dept. 318 Polk 241
Residence: 2316 Hillsboro St. Tel. 6709.

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* Married.

Ext.

*Wellons, T. T.—Supt. of Dormitories. Warehouse 272
Residence: 206 Chamberlain St. Tel. 3-2478.

*Wells, B. W.—Prof. and Head, Bot. Dept. 220 Winston 267
Residence: 1605 Park Dr. Tel. 8746.

West, Gladys F.—Jr. Botanist, Cotton Fiber Investigations. 104 Polk 300
Residence: 1324 Brooks Ave. Tel. 4731.

Wetmore, Mary Badger—Sec., Agron. Ext., Agron. Dept. 208 Ricks 294
Residence: Anderson Drive Ext. Tel. 8157.

*Weyne, Jerome Student Asst., M. L. Dept. 205 Peele 231
Residence: 6 Enterprise St. Tel. 4788.

*Wheeler, F. B.—Prof. of Practical Mechanics, M. E. Dept. Shop .. 245
Residence: 20 Maiden Lane. Tel. 7958.

*Wheeler, W. W. Carpenter, Agr. Engr. Dept. Agr. Engr. Tel. 3-1374
Residence: 120 W. Morgan St. Tel. 3-3296.

*Wheless, M. H.—Office Mgr., Students Supply Store .... Tel. 2-3674 & 225
Residence: 20 Turner St. Tel. 8053.

*White, Mrs. Maude B.—Bookkeeping Machine Operator, Business Office. 103 Holladay 316
Residence: P-3-A Cameron Court Apts. Tel. 2-2051.

*White, Raymond Cyrus Asst. Prof., Chem. Dept. 103 Withers 265
Residence: 317 Calvin Rd. Tel. 9582.

*Whitehead, Laurence C. Dist. Agt., U. S. Fish and Wildlife Service. 202 Zoology 261
Residence: 2613 Van Dyke Ave. Tel. 4455.

*Whitford, L. A.—Asst. Prof., Bot. Dept. 201 Winston 267
Residence: 1716 Park Dr. Tel. 6197.

*Wiggins, Mrs. Geraldine Sec., Phys. Ed. Dept. Gym 218
Residence: C-303 Boylan Apts. Tel. 2-2580.

*Williams, C. B.—Emeritus Prof., Agron. Dept. 117 Ricks 262
Residence: 1405 Hillsboro St. Tel. 8893.

*Williams, C. F.—Assoc. Horticulturist, Hort. Dept. 305 Polk. 275 & 318
Residence: 1912 Lewis Circle. Tel. 2-0233.

*Williams, Charles W.—Instr., Math. Dept. 222 Tompkins 228
Residence: D-2 Grosvenor Gardens.

*Williams, H. Page—Prof., Math. Dept. 223 Tompkins 228
Residence: 1015 Brooks Ave. Tel. 2-2191.

*Williams, L. F.—Prof. of Org. Chem., Chem. Dept. 301 Withers .. 297
Residence: 1816 Park Dr. Tel. 8075.

Williams, Lucie R. Stock Keeper, Chem. Dept. 217 Withers 265
Residence: 3210 Clark Ave. Tel. 8666.

*Williams, N. W. Asst. Prof., Poul. Sci., Poul. Dept. 214 Ricks 280
Residence: Poultry Plant. Tel. 8686.

*Willis, Esther G.—S. W. Dist. Agt., Agr. Ext. Ser., Home Demonstration. 219-1911 242
Residence: 2902 Fairground Ave. Tel. 2-1476.

---

* Married.

Ext.

*Wilson, Arthur John—Head, Chem. Dept. 107 Withers 266
Residence: 1808 Park Dr. Tel. 7125.

Wilson, S. Virginia Asst. Ext. Nutritionist, Agr. Ext. Ser. Home Demonstration. 218-1911 242
Residence: 1119 Harvey St. Tel. 2-3216.

*Wilson, T. L. Asst. Prof., English Dept. 12 Peele 237
Residence: 407 Calvin Rd. Tel. 6951.

*Winkler, E. W. Asst. Prof., E. E. Dept. 105-B Daniels 235
Residence: 509 Daughtridge St. Tel. 2-1370.

Winstead, Dorothy—Sten., Hort. Dept. 303 Polk . . 275 & 318
Residence: 123 N. Bloodworth St. Tel. 2-3792.

Winstead, Mildred Sten., Hort. Dept. 303 Polk . . . 275 & 318
Residence: 123 N. Bloodorth St. Tel. 2-3792.

*Winston, Sanford Prof., Sociol. Dept. 202 Peele 231
Residence: 120 Forest Rd. Tel. 2 1402.

*Witmer, Samuel B. Mechanic, School of Tex. Tex. Bldg. 273
Residence: 508 Dixie Trail.

*Witmer, Mrs. S. B. Sten., Alumni Office. 202 Holladay 252
Residence: 508 Dixie Trail.

*Wolfowitz, J. Assoc. Prof., Exp. Stat. Dept. 105-A Patterson . . . 313
Residence:

*Wood, Ned Asst. State 4-H Leader. 201 Ricks 214
Residence: L-2-A Cameron Court Apts. Tel. 3-3073.

*Wood, Star Asst. Football Instr., ASTP. Phys. Ed. and Athl. Dept. Field House . . . . . Tel. 6934
Residence: Field House. Tel. 6934.

*Wood, T. W. Assoc. Prof., Ind. and Personnel Management. Econ. Dept. 104 Peele 200
Residence: 2822 Bedford Ave. Tel. 2-3800.

*Woodall, Mrs. Clyde Class Attendance Clerk, Dean of Students Office. 101 Holladay 215
Residence: 1311 Canterberry Rd. Tel. 2-0381.

*Woodhouse, W. W., Jr. Res. Assoc. Prof. Agron., Soil Fertility, Agron. Dept. 316-1911 . . . . . 324 & 262
Residence: 3209 Hillsboro St. Tel. 4544.

*Wright, J. B. Electrician, Service Dept. Warehouse 272
Residence: Western Blvd. Tel. 4883.

*Wyatt, Mrs. Candace L. Sten., Poul. Ext. Dept. 210 Ricks 321
Residence: 2702 Van Dyke Ave. Tel. 4483.

*Wyman, Lenthall Prof., Div. of For. 305 Ricks 270
Residence: 1837 White Oak Rd. Tel. 8953.

*Wynn, Willard K.—Asst. Prof., English Dept. 107 Pullen 237
Residence: 2701 Barmettler St.

Wynne, Robert B. Instr., English Dept. 13 Peele & 104 Pullen . . . 237
Residence: 1814 Park Dr. Tel. 2-3698.

* Married.

Ext.

*Yarborough, C. E. Foreman, Hort. Dept. Greenhouse 240
Residence: 216 Ashe Ave. Tel. 8509.

Yates, Phyllis J.—Asst. Editor for Exp. Sta. Publications Dept. 9 Ricks 279
Residence: 2404½ Stafford Ave.

*Yeardley, Nelson Paul—Instr., Math. Dept. 208 Tompkins 226
Residence: 615 Brooks Ave. Tel. 4577.

*Young, Mrs. C. H. Sec., A. H. Ext. 202 Polk 269
Residence: 2303 Clark Ave. Tel. 8083.

*Zimmerberg, Hyman J. Instr., Math. Dept. 220 Tompkins 228
Residence: 12 Maiden Lane.

* Married.

STUDENT DIRECTORY

1945-1946

Name	*Classification*	*School Address Dorm. Box No. or St. No.*	*Home Address*
Abernethy, Betty Jane	Fr., Tex.	1908 Park Dr.	Forest City, N. C.
Adams, F. H.	Fr., Agr.	4 Berry, 4337	Willow Springs, N. C.
Adams, H. M.	Jr., M. E.	18½ Horne	Winston-Salem, N. C.
Adams, J. J.	So., Aero. E.	204 Bagwell, 3336	Rocky Mount, N. C.
Adkins, J. E.	Sr., M. E.	301 Gold, 3225	Summerfield, N. C.
Allen, B. L.	Fr., For.	306 Elm	Raleigh, N. C.
Allen, C. W., Jr.	Fr., E. E.	211 Wat., 3029	Creedmoor, N. C.
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Allen, R. L.	Fr., M. E.	132 Becton, 3732	Raleigh, N. C.
Altvater, H. M.	So., M. E.	319 Becton, 3787	Greensboro, N. C.
Anderson, C. J.	So., E. E.	122 Bagwell, 3322	Tyrone, Pa.
Anderson, J. E., Jr.	Sr., Ch. E.	2513 Clark Ave.	Wake Forest, N. C.
Andrews, M. J.	Sr., C. E.	709 Aycock	Raleigh, N. C.
Andrews, T. B., Jr.	So., Aero.	209 Welch, 3257	Mt. Gilead, N. C.
Andrews, W. M., Jr.	Fr., Ch. E.	2412 Hillsboro	Shelby, N. C.
Armitage, S. C.	Fr., Ch. E.	302 4th, 3128	Selma, N. C.
Armstrong, J. R., Jr.	So., C. E.	112 Bagwell, 3312	Jamestown, N. C.
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Averette, R. G.	Fr., M. E.	123 Alex., 4118	Varina, N. C.
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Aycock, W. G.	Fr., Agr.	112 N. Dawson	Dover, N. C.
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Bain, O. G.	Fr., E. E.	217 Wat., 3035	Wilmington, N. C.
Baker, R. S.	So., M. E.	119 Hudson St.	Raleigh, N. C.
Balthis, L. H.	Fr., Tex.	2412 Hillsboro	Gastonia, N. C.
Banks, F. G.	Jun., W.L.C. & M.	205 Gold, 3217	Franklinton, N. C.
Banton, H. L.	Fr., Aero.	212 Alex., 4141	Lynchburg, Va.
Barber, H. M.	Fr., E. E.	122 Park Ave	Raleigh, N. C.
Barber, J. B.	Fr., Tex.	333 Becton, 3801	Mt. Airy, N. C.
Barbour, A. J.	So., Ind. Ed.	108 Becton, 3708	Salemburg, N. C.
Barefield, Margaret M.	So., Ch. E.	618 W. Aycock	Raleigh, N. C.
Barnes, J. J., Jr.	Fr., M. E.	305 Welch, 3265	Angier, N. C.
Barnhardt, E.	Fr., Agr.	306 Gold, 3230	Mocksville, N. C.
Barnhardt, E. W.	Fr., Ch. E.	102 Becton, 3702	Winston-Salem, N. C.
Barnhill, M. B.	Fr., Agr.	201 Welch, 3249	Enfield, N. C.
Barringer, H. S.	Fr., E. E.	107 Bagwell, 3307	Maiden, N. C.
Bartlett, A.	Fr., C. E.	102 Gold, 3202	La Grange, N. C.
Bartlett, P. V.	Fr., Aero.	303 Alexander, 4169	Ivanhoe, N. C.
Baskervill, Jean C.	Fr., Arch.	2306 Hillsboro	Lenoir, N. C.
Bass, R. D., Jr.	Fr., C. E.	101 Alex., 4101	Garysburg, N. C.
Batchelor, O. T., Jr.	Fr., Ch. E.	213 Alex., 4142	Sharpsburg, N. C.
Baucom, J. B.	Jr., Agron.	1614 Park Drive	Raleigh, N. C.
Bautista, A. O.	Jr., Tex. Mfg.	203 Bagwell, 3335	Puebla Pue, Mexico
Baxley, Hartlee M.	Grad., Agr. Ch.	E-1 Grosvenor Gardens	Raleigh, N. C.
Baxter, Rachel	Pratt & W.	4 Maiden Lane	Greensboro, N. C.
Bayer, S. R.	Fr., Tex.	109 Oberlin Rd.	New York, N. Y.
Beam, J. D., Jr.	Sr., Ch. E.	205 Becton, 3739	Hamlet, N. C.
Beaman, N. J.	Fr., E. E.	208 Gold, 3220	Snow Hill, N. C.
Beard, W. L.	Fr., Tex.	326 Bagwell, 3392	Greensboro, N. C.

Name	*Classification*	*School Address Dorm. Box No. or St. No.*	*Home Address*
Beck, R. S.	So., M. E.	Route No. 6	Raleigh, N. C.
Bedford, W. B.	So., Occ. I. & G.	2811 Wayland Dr.	Raleigh, N. C.
Bell, E. R.	Fr., C. E.	3 Gym	Statesville, N. C.
Bell, G. L.	Fr., Agr.	13 Becton, 3815	Huntersville, N. C.
Bell, R. C.	Fr., Ch. E.	110 Welch, 3246	Manteo, N. C.
Bell, W. D.	Fr., M. E.	313 Bagwell, 3379	Asheville, N. C.
Benfield, J. K.	Fr., Tex.	202 Becton, 3736	Valdese, N. C.
Bennett, J. G.	Fr., E. E.	211 Wat., 3029	Kittrell, N. C.
Benson, G. S.	So., M. E.	107 4th, 3117	Reisterstown, Md.
Benton, E. D.	Fr., E. E.	111 Becton, 3711	Hopewell, Va.
Benton, F. E.	Fr., M. E.	306 Welch, 3266	Hertford, N. C.
Benton, W. D.	Fr., E. E.	214 Becton, 3748	Monroe, N. C.
Benton, W. T.	Sr., Ch. E.	115 Hillsboro	Wilmington, N. C.
Berger, S.	Fr., Tex.	229 Alex., 4158	New York, N. Y.
Berkett, J. L.	Fr., Tex.	211 Alex., 4140	Bronx, N. Y.
Berkut, M. K.	Grad., Agr. Ch.	2723 Van Dyke	Raleigh, N. C.
Berry, E. D. H.	So., E. E.	325 Bagwell, 3391	Asheville, N. C.
Bianco, A. L.	So., Tex.	238 Alex., 4164	East Patterson, N. J.
Bingenheimer, C. G.	So., M. E.	1720 Hillsboro	Burlington, N. C.
Bingham, C. D.	Fr., Tex.	332 Bagwell, 3398	High Point, N. C.
Bingham, T. J.	Fr., M. E.	102 Wat., 3002	Winston-Salem, N. C.
Bird, R. L.	So., Ch. E.	Box 6114, Five Pts. Sta.	Raleigh, N. C.
Blackman, J. C.	Fr., Agr. Ed.	203 Gold, 3215	Garland, N. C.
Blackstock, C. E., Jr.	So., For.	Gym	Asheville, N. C.
Blackwelder, C. D.	Fr., Agr.	111 Alex., 4108	Cleveland, N. C.
Blake, W. K.	Fr., Aero.	212 Alex., 4141	Chadbourn, N. C.
Blank, F. L., Jr.	Fr., Arch. E.	2412 Hillsboro	Nashville, Tenn.
Blaser, R. E.	Grad. Agron. (F.C.)	2627 Van Dyke	Raleigh, N. C.
Bloom, R. W.	Fr., Occ. I. & G.	Field House	Hillside, N. J.
Blow, W. L.	Sen., An. Prod.	317 Alex., 4180	New Bern, N. C.
Blue, C. H.	Fr., E. E.	119 Becton, 3719	Vass, N. C.
Bocook, J. A.	Fr., Arch. E.	12 Horne	Asheville, N. C.
Bodenheimer, V. B.	So., Ch. E.	207 Becton, 3741	High Point, N. C.
Bodenheimer, W. C.	Fr., Aero.	104 Welch, 3240	Granite Falls, N. C.
Boling, R. W.	Fr., Cer. E.	304 Syme, 3568	Hendersonville, N. C.
Bonner, J. C.	Fr., Occ. I. & G.	Field House	Wilkes-Barre, Pa.
Borum, M. L.	Sr., C. E.	18½ Horne	Greensboro, N. C.
Bostian, R. L., Jr.	So., C. E.	115 Wat., 3015	Wilmington, N. C.
Bowen, D. L.	So., Agr.	233 Bagwell, 3365	Burgaw, N. C.
Bowen, E. G.	So., M. E.	11 YMCA	Plymouth, N. C.
Bowman, A. P.	So., E. E.	130 Woodburn Rd.	Hickory, N. C.
Bowman, F. A.	Fr., Ch. E.	131 Becton, 3731	Charlotte, N. C.
Bowman, R. D.	Fr., Agr.	316 Becton, 3784	Julian, N. C.
Boyd, H. E.	Fr., C. E.	222 Bagwell, 3354	Reidsville, N. C.
Boyd, H. L.	Fr., Geol. E.	326 Becton, 3794	Lenoir, N. C.
Boyette, R. E.	Fr., Agr.	101 4th, 3111	Goldsboro, N. C.
Boykin, J. N.	Fr., Agr. Ed.	223 Becton, 3757	Sims, N. C.
Boyter, J. C.	So., M. E.	1720 Hillsboro	Charlotte, N. C.
Bradshaw, W. W.	Fr., Gen. E.	2630 St. Mary's	Raleigh, N. C.
Branscomb, C. E.	Jr., M. E.	220 Becton, 3754	Winston-Salem, N. C.
Bransford, E. O., Jr.	Fr., M. E.	307 Wat., 3043	Winston-Salem, N. C.
Brantley, G. B.	Fr., Gen. E.	204 Alex., 4136	Spring Hope, N. C.
Brantley, K. E.	Fr., Agr. Ed.	113 Alex., 4110	Zebulon, N. C.
Breeden, C. L.	Fr., M. E.	212 Gold, 3224	Bennettsville, S. C.
Breedlove, W. A.	Fr., E. E.	208 Welch, 3256	Nashville, N. C.
Brewer, J. B.	Fr., Arch. E.	118 Wat., 3018	Carthage, N. C.
Briggs, J. F.	Sr., Arch.	125 Woodburn Rd.	Lexington, N. C.
Broadway, C. A.	Fr., For.	214 Alex., 4143	Norman, N. C.
Brooks, Betty C.	Grad., Ru. Soc.	1306 Mordecai Dr.	Raleigh, N. C.

Name	*Classification*	*School Address* *Dorm. Box No. or St. No.*	*Home Address*
Broome, H. H., Jr.	Fr., Arch. E.	210 Becton, 3744	Washington, N. C.
Broome, H. W., Jr.	Fr., Agr. Ed.	313 Berry, 4333	Monroe, N. C.
Brower, A. P.	Fr., M. E.	225 Becton, 3759	Staley, N. C.
Brown, Barbara E.	Fr., Agr. Ch.	3010 Ruffin	Raleigh, N. C.
Brown, E. A.	Fr., M. E.	217 Wat., 3035	Salisbury, N. C.
Brown, J. H., Jr.	Fr., Occ. I & G.	1105 Mordecai Dr.	Raleigh, N. C.
Brown, James Wm.	Sr., Aero.	18½ Horne	Mount Airy, N. C.
Brown, M. L.	Fr., E. E.	123 Alex., 4118	Parkton, N. C.
Brown, T. M.	So., C. E.	Box 5084, 1208 Col. Pl.	Asheville, N. C.
Browne, Jack Wyman	So., Aero.	224 Becton, 3758	Greenville, N. C.
Brunson, Caroline M.	Pratt & W.	17 Enterprise	Florence, S. C.
Bryan, L. S., Jr.	Fr., Agr.	203 Wat., 3021	Oxford, N. C.
Bryan, M. T.	Fr., C. E.	102 Berry, 4302	Lumberton, N. C.
Bryant, M. G.	Fr., M. E.	229 Becton, 3763	Winston-Salem, N. C.
Bryant, P. C., Jr.	Fr., Agr. Ed.	1 Becton, 3803	Woodland, N. C.
Buchwald, E.	Fr., Tex.	301 Alex., 4167	Brooklyn, N. Y.
Buckner, C. A., Jr.	Fr., E. E.	104 Wat., 3004	Siler City, N. C.
Burchette, G. C., Jr.	Grad., M. E.	18½ Horne	Winston-Salem, N. C.
Burchette, G. E.	Fr., M. E.	312 Wat., 3048	Winston-Salem, N. C.
Burns, F. N.	So., Cer. E.	311 Bagwell, 3377	East Spencer, N. C.
Burts, T. E., Jr.	Sr., Ch. E.	2514 Clark Ave.	Charlotte, N. C.
Butchart, R. L., Jr.	Fr., E. E.	304 Bagwell, 3370	Greensboro, N. C.
Butner, F. W., Jr.	Fr., Arch. E.	232 Bagwell, 3364	Winston-Salem, N. C.
Butts, B.	Fr., Aero.	206 Wat., 3024	Farmville, N. C.
Byrum, G. M., Jr.	Sr., Tex. Mgt.	12 Horne	Edenton, N. C.
Byrum, P. E.	Fr., E. E.	209 Alex., 4139	Edenton, N. C.
Cabe, W. M.	Fr., Agr.	105 4th, 3115	Sylva, N. C.
Caffrey, W. D.	Fr., C. E.	108 Wat., 3008	Morehead City, N. C.
Cain, E. P., Jr.	Sr., Ch. E.	306 Hillcrest Road	Raleigh, N. C.
Callahan, G. C.	Fr., Tex.	12 Becton, 3814	Graham, N. C.
Callicutt, C. R.	Fr., Aero.	Infirmary	China Grove, N. C.
Calloway, J. S.	So., Ch. E.	108 Becton, 3708	Asheville, N. C.
Cameron, G. B.	Fr., C. E.	310 Bagwell, 3376	Pinehurst, N. C.
Campbell, J. H.	Fr., E. E.	115 Alex., 4112	Winston-Salem, N. C.
Cannon, B. C., Jr.	Fr., Aero.	230 Bagwell, 3362	Hickory, N. C.
Capper, A. B., Jr.	Fr., M. E.	310 Wat., 3046	Charlotte, N. C.
Capps, E. H., Jr.	Fr., For.	330 Bagwell, 330	Swannanoa, N. C.
Carpenter, R. E., Jr.	Fr., Arch. E.	317 Wat., 3053	Cliffside, N. C.
Carr, R. J.	Fr., Ch. E.	110 Becton, 3710	Godwin, N. C.
Carroll, J. D.	Fr., Agr.	108 Gold, 3208	Guilford College, N. C.
Carter, B. W.	Fr., Arch. E.	103 Gold, 3203	Denton, N. C.
Carter, C. H.	Fr., Agr.	110 Gold, 3210	Hobbsville, N. C.
Carter, H. M.	So., Gen. E.	Gym	Charlotte, N. C.
Carter, J. E.	Fr., Aero.	129 Bagwell, 3329	Wilmington, N. C.
Carter, J. N.	Fr., Aero.	2600 Rosedale Ave.	Winston-Salem, N. C.
Carter, R. D.	Fr., Agr. Ed.	212 Bagwell, 3344	Zebulon, N. C.
Cartner, T. E.	Sen., Agr. Ed.	211 Welch, 3259	Mocksville, N. C.
Casey, M. W.	So., Agr.	109 Gold, 3209	Goldsboro, N. C.
Cashion, W. H.	Fr., Aero.	122 Becton, 3722	Statesville, N. C.
Castleberry, J. L., Jr.	So., C. E.	103 Chamberlain	Apex, N. C.
Cates, R. V., Jr.	So., Ch. E.	314 Becton, 3782	Winston Salem, N. C.
Cathey, G. A.	Fr., Ch. E.	107 Welch, 3243	Charlotte, N. C.
Chadwick, J. W., Jr.	Jr., E. E.	6 Enterprise	Rocky Mount, N. C.
Chambers, R. A.	Fr., Agr.	303 Welch, 3263	Draper, N. C.
Chamblee, D. S.	Grad., Agron. (F. C.)	140 Alex., 4132	Zebulon, N. C.
Chamblee, J. B.	Fr., Aero.	317 Becton, 3785	Cofield, N. C.
Chappelear, J. W., Jr.	Fr., C. E.	1106 Watauga St.	Raleigh, N. C.
Cheek, J. H.	Fr., Tex.	Field House	Laurenburg, N. C.
Cheek, J. N.	Jr., Tex. Mfg.	Power Plant, 5241	Rockwell, N. C.

Name	*Classification*	*School Address Dorm. Box No. or St. No.*	*Home Address*
Cheney, J. G., Jr.	Fr., Tex.	2305 Clark Ave.	Raleigh, N. C.
Chenoweth, R. P.	Fr., Agr.	215 Becton, 3749	Weldon, N. C.
Cherry, L. T.	Sp. No Coll. Cr.	2209½ Hope	Greenville, N. C.
Cherry, O. E.	Fr., Aero.	303 Welch, 3263	Draper, N. C.
Chesson, W. M., Jr.	Fr., Tex.	9 Berry, 4342	Edenton, N. C.
Childress, C. S., Jr.	Fr., C. E.	18½ Horne	Mt. Airy, N. C.
Chinnis, W. R.	Fr., C. E.	323 Becton, 3791	Wilmington, N. C.
Church, P. E., Jr.	Fr., Agr.	6 Syme, 3602	North Wilkesboro, N. C.
Churn, C. R.	Fr., Occ. I. & G.	714 Nash Drive	Raleigh, N. C.
Clark, F. O.	Jr., Agron. (F. C.)	6 Enterprise	Inez, N. C.
Clark, L. C., Jr.	Fr., Tex.	218 Alex., 4147	Asheville, N. C.
Clark, W. O.	Fr., E. E.	217 Alex., 4144	Tarboro, N. C.
Clayton, G. D.	So., Tex.	18½ Horne	Cary, N. C.
Clayton, G. W., Jr.	Fr., E. E.	21 Becton, 3822	Andrews, N. C.
Cline, J. C.	Jr., Agr. Ed.	301 Gold, 3225	Shelby, N. C.
Clopton, N. E.	Fr., E. E.	21 Becton, 3822	Henderson, N. C.
Coble, W. G.	Fr., Aero.	214 Becton, 3748	Monroe, N. C.
Cochrane, W. H., Jr.	Fr., Agr.	131 Alex., 4126	Franklin, N. C.
Cocke, P. C., III	Jr., C. E.	310 Berry, 4330	Asheville, N. C.
Cody, W. R., Jr.	Fr., E. E.	207 Becton, 3741	Alarka, N. C.
Coggin, Z. D.	Fr., Cer. E.	301 Bagwell, 3367	Albemarle, N. C.
Cohen, M.	Jr., Tex.	2720 Vanderbilt	Miami Beach, Fla.
Cole, R. S., Jr.	So., Aero.	103 Chamberlain	Greensboro, N. C.
Colenda, C. E.	Fr., Gen. E.	208 Becton, 3742	Morehead City, N. C.
Colhard, C. M.	So., Tex.	12 Horne	Elkin, N. C.
Collie, J. S.	Fr., E. E.	318 Wat., 3054	Goldsboro, N. C.
Collins, J. C.	Fr., Agr.	118 Becton, 3718	Francisco, N. C.
Collins, W. N.	Fr., E. E.	203 Becton, 3737	Wilmington, N. C.
Compton, H. W.	Fr., E. E.	2510 Vanderbilt	Hazelwood, N. C.
Connelly, J. H.	Fr., E. E.	134 Bagwell, 3402	Spruce Pine, N. C.
Connor, G. C., Jr.	So., Arch. E.	115 Woodburn Rd.	High Point, N. C.
Conrad, J. E.	Fr., C. E.	11 Becton, 3813	Charlotte, N. C.
Conway, E. R., III	Jr., Ch. E.	302 Bagwell, 3368	Greenville, N. C.
Cook, E. R.	Fr., M. E.	2513 Clark	Kannapolis, N. C.
Cook, H. L.	Fr., M. E.	102 Wat., 3002	Clemmons, N. C.
Cooke, B. H.	Fr., E. E.	216 Wat., 3034	Franklinton, N. C.
Cool, L. E.	Fr., M. E.	Gym	So. Glens Falls, N. Y.
Cooper, J. E., Jr.	Fr., E. E.	202 Becton, 3736	Lincolnton, N. C.
Cooper, W. B.	So., M. E.	Apt. 101, Capital Apts.	Charlotte, N. C.
Corby, E. N.	Sr., Tex. C. & D.	108 Horne	Greensboro, N. C.
Corey, James	Did not complete reg.		
Cornacchione, A.	Jr., C. E.	1806 Hillsboro	Statesville, N. C.
Corriher, K. V.	Fr., Agr.	327 Becton, 3795	Mooresville, N. C.
Cortina, E. D.	Fr., Tex.	204 4th, 3122	Mexico City, Mex.
Couch, R. S.	Fr., Aero.	232 Becton, 3766	Monroe, N. C.
Courts, R. B., Jr.	Jr., Agr. Ed.	Field House	Reidsville, N. C.
Covington, C. W., Jr.	Fr., Ch. E.	RFD 1, Fuquay Sprgs.,	Fuquay Sprgs., N. C.
Covington, H. N.	Fr., Agr.	204 Welch, 3252	Mebane, N. C.
Cowan, W. W.	Fr., Tex.	508 Dixie Trail	Raleigh, N. C.
Coward, R. C.	Fr., E. E.	106 Bagwell, 3306	Ayden, N. C.
Cowart, J. C.	So., C. E.	124 Bagwell, 3324	Newport, N. C.
Cox, H. L.	Fr., Aero.	302 Wat., 3038	Greensboro, N. C.
Cox, R. W.	Fr., M. E.	322 Becton, 3790	Cary, N. C.
Cox, W. C., Jr.	Fr., Agr.	324 Becton, 3792	Richlands, N. C.
Cozart, J. F.	Fr., Aero.	113 Becton, 3713	Oxford, N. C.
Craig, R. F.	Fr., Tex.	330 Becton, 3798	Stanley, N. C.
Cranford, J. M.	Fr., Aero.	104 Gold, 3204	Asheboro, N. C.
Creech, E. E.	Fr., Occ. I. & G.	2710 Rosedale Ave.	Middlesex, N. C.
Crigler, B. R.	So., M. E.	103 Chamberlain	Atlanta, Ga.
Crist, G. B.	Fr., Tex.	205 Alex., 4137	Craigsville, Va.

Name	*Classification*	*School Address* *Dorm. Box No. or St. No.*	*Home Address*
Crocker, Lizette D.	Sp. No Coll. Cr.	215 N. Boylan Ave.	Raleigh, N. C.
Crum, J. H.	Fr., Agr. Ch.	107 Shepherd	Raleigh, N. C.
Currin, Mary W.	Grad., Exp. Sta.	114 N. Boylan Ave.	Northside, N. C.
Dailey, R. E.	Fr., Tex.	129 Becton, 3729	Charlotte, N. C.
Daly, T. B.	Fr., C. E.	121 Halifax	Charlotte, N. C.
Dampier, E. H.	Fr., Aero.	Rt. 1, Morrisville	Morrisville, N. C.
Daniel, W. J.	Jr., Ch. E.	10 Enterprise	Henderson, N. C.
Daniels, J. M.	Fr., M. E.	305 Gold, 3229	Snow Hill, N. C.
Darr, E. A., Jr.	So., E. E.	308½ E. Park Drive	Raleigh, N. C.
Daughtridge, J. C.	Jr., Agr. E.	132 Bagwell, 3332	Rocky Mount, N. C.
Davenport, A. W.	Fr., E. E.	210 Welch, 3258	Whitakers, N. C.
David, C. S., Jr.	So., M. E.	309 Becton, 3777	Asheville, N. C.
Davis, A. C.	Fr., Arch. E.	208 Bagwell, 3340	Charlotte, N. C.
Davis, F. W., Jr.	Fr., Cer. E.	N3A, Cameron Court Apts	Raleigh, N. C.
Davis, H. L.	Fr., Aero.	Field House	Farmville, N. C.
Davis, J. E., Jr.	So., C. E.	318 Becton, 3786	Columbia, S. C.
Davis, J. H., Jr.	So., E. E.	102 Berry, 4302	Newport, N. C.
Davis, M. V. B., Jr.	So., Arch. E.	12 Horne	New Bern, N. C.
Davis, R. C.	So., Ch. E.	106 Becton, 3706	Ellerbe, N. C.
Davis, T. R.	Fr., For.	Field House	Goldsboro, N. C.
Deal, R. J.	So., Agr.	208 Syme, 3540	Asheville, N. C.
Dean, E. W.	So., Agr. E.	213 Wat., 3031	Louisburg, N. C.
Dean, R. L.	Fr., C. E.	214 Wat., 3032	Wendell, N. C.
Deas, J. E., Jr.	Sr., Ch. E.	216 Syme, 3548	Canton, N. C.
Deaton, W. C.	Fr., For.	225 Becton, 3759	Liberty, N. C.
Delamar, W. T.	Fr., Aero.	317 Becton, 3785	Durham, N. C.
DeLaney, J. R.	Fr., E. E.	204 Becton, 3738	Winston-Salem, N. C.
De la Rionda, G. J.	Fr., Aero.	106 Wat., 3006	Sagua lo Grande, Cuba
Dempsey, Eloise	Pratt & W.	17 Enterprise	Oak Ridge, Tenn.
Denson, B. S.	Fr., M. E.	308 Welch, 3268	Whitakers, N. C.
DeVore, C. A.	Fr., For.	8 Ferndell Lane	Wichita, Kans.
Diamond, H.	Sr., Tex. Mfg.	109 Oberlin Rd.	New York City
Dickerson, D. E.	Fr., Arch.	320 Becton, 3788	Louisburg, N. C.
Dickerson, W. B.	Fr., C. E.	214 Berry, 3748	Monroe, N. C.
Dillingham, B. Irene	Pratt & W.	2226 Hillsboro	Barnardsville, N. C.
Dillon, C. A., Jr.	Sr., M. E.	1603 Hillsboro	Raleigh, N. C.
Dillon, C. R.	Fr., For.	116 Becton, 3716	Charlotte, N. C.
Dixon, A. J.	Fr., C. E.	311 Berry, 4331	Henderson, N. C.
Dixon, C. W.	Jr., Aero.	10 Enterprise	Elm City, N. C.
Dixon, R. D.	So., M. E.	8 Becton, 3810	Mt. Vernon Spgs., N. C.
Dixon, R. L., Jr.	Fr., E. E.	307 Wat., 3043	Winston-Salem, N. C.
Dobbins, G. C.	So., Agr. Ed.	303 Hillcrest Rd.	Raleigh, N. C.
Dobbins, W. J.	Fr., M. E.	114 Becton, 3714	Boonville, N. C.
Dockery, C., III	Fr., Arch. E.	308 Wat., 3044	Greensboro, N. C.
Dorton, J. L.	Fr., For.	Field House	Concord, N. C.
Douglas, H. N.	Fr., Agr. E.	19 Becton, 3820	Washington, N. C.
Dover, J. R., III	Fr., Tex.	202 Bagwell, 3334	Shelby, N. C.
Dowd, M. E., Jr.	Fr., M. E.	Field House	Dunn, N. C.
Drye, L. C.	Grad. Tex. Mfg.	2405 Clark Ave.	Landis, N. C.
Dugan, A. W., Jr.	Fr., E. E.	203 Becton, 3737	Fayetteville, N. C.
Duke, R. L.	Fr., C. E.	107 Wat., 3007	Henderson, N. C.
Duncan, R. H.	Jr., M. E.	2510 Vanderbilt Ave.	Greenville, N. C.
Dunn, J. F.	Jr., Ch. E.	522 Elm	Charlotte, N. C.
Dunn, M. B.	Sr., Aero.	2514 Clark Ave.	Charlotte, N. C.
Dunn, W. M.	Fr., For.	127 Becton, 3727	Scotland Neck, N. C.
Dunston, Anna Claire	Fr., Tex.	1710 Hillsboro	Washington, N. C.
DuRant, R. W.	So., C. E.	101 Wat., 3001	Tryon, N. C.
Dutton, J. H.	Fr., Ch. E.	104 Alex., 4104	Pageland, S. C.
Dutton, R. M.	Fr., Agr.	125 Hawthorne Rd.	Pageland, S. C.

Name	Classification	School Address Dorm. Box No. or St. No.	Home Address
Earle, G. H., Jr.	Fr., Agr.	114 Park Ave., Box 5323	Norfolk, Va.
Edge, J. L.	So., Agr.	139 Alex., 4131	Fayetteville, N. C.
Edge, Nona H.	Fr., I. A. Ed.	H-1 Raleigh Apts	Raleigh, N. C.
Edgerton, W. L., Jr.	Jr., Agr. Ed.	105 Welch, 3241	Union Mills, N. C.
Edwards, C. E.	Fr., Aero.	311 Syme, 3575	Norlina, N. C.
Edwards, L. M., Jr.	Fr., I. A. Ed.	Field House	Big Stone Gap, Va.
Edwards, M. G.	So., W. C. & M.	2744 Rosedale Ave.	Asheville, N. C.
Elks, C. B.	Fr., E. E.	307 Welch, 3267	Washington, N. C.
Eller, J. R.	Fr., E. E.	307 Gold, 3231	Granite Quarry, N. C.
Ellington, Mary Oliver	Grad., Entom.	303 New Bern Ave.	Raleigh, N. C.
Elliott, L. M.	So., Aero.	1513 Cherokee Dr.	Raleigh, N. C.
Ellis, R. G.	Fr., Ch. E.	215 Bagwell, 3347	Gastonia, N. C.
Ellis, W. J., Jr.	Jr., For.	119 Chamberlain	Raleigh, N. C.
Elmore, J. O.	Did not complete reg.		
English, W. A.	Fr., Tex.	2513 Clark Ave.	Monroe, N. C.
Enloe, E. D.	Fr., Agr. E.	7 Berry, 4340	Gilkey, N. C.
Ennett, E. T.	Fr., E. E.	2514 Clark Ave.	Swansboro, N. C.
Erdoesy, H. G.	Fr., Aero.	Box 1203	Raleigh, N. C.
Erwin, M. G.	Fr., Agr.	110 Gold, 3210	Forest City, N. C.
Essick, Hal	Fr., Aero.	305 Bagwell, 3371	Winston-Salem, N. C.
Evans, B. U., Jr.	Fr., M. E.	109 Bagwell, 3309	Grandy, N. C.
Evans, D. H., Jr.	Fr., M. E.	19 Becton, 3820	Maxton, N. C.
Evans, J. D.	So., E. E.	Box 6093, 608 E. Whit. Mill Rd.,	Kenly, N. C.
Evans, O. W.	Fr., Agr.	10 Berry, 4343	Magnolia, N. C.
Everett, A. O.	Fr., E. E.	114 Becton, 3714	Hamilton, N. C.
Everett, J. L.	Fr., Agr.	7 Becton, 3809	Newsoms, Va.
Everett, W. J.	Fr., M. E.	305 Gold, 3229	Barium Springs, N. C.
Everett, W. N.	Fr., M. E.	306 Becton, 3774	Bath, N. C.
Fallwell, T. H., III	Jr., Ch. E.	2266 Circle Dr.	Raleigh, N. C.
Farmer, K. H.	So., Agr. E.	109 Wat., 3009	Bailey, N. C.
Farrior, D. J.	Fr,. Agr. Ch.	215 Syme, 3547	Wallace, N. C.
Farrior, W. P., Jr.	Sr., An. Prod.	310 Welch, 3270	Willard, N. C.
Faulk, H. W.	Fr., Agr.	202 Gold, 3214	Fairmont, N. C.
Fesperman, B. B.	Fr., E. E.	234 Becton, 3768	Badin, N. C.
Fessenden, J. R.	Sr., M. E.	S-6 Raleigh Apts.	Raleigh, N. C.
Fidler, N. B., Jr.	Fr., Tex.	Field House	Burlington, N. C.
Finch, E. B.	Sr., Ch. E.	227 Becton, 3761	Zebulon, N. C.
Finch, H. M., Jr.	Fr., Aero.	333 Becton, 3801	Mt. Airy, N. C.
Finney, R. H.	Fr., Agr.	307 Berry, 4327	East Bend, N. C.
Fischer, A. A.	Fr., Tex.	112 Becton, 3712	Long Beach, N. Y.
Fishel, H. O., Jr.	Fr., Tex.	331 Syme, 3595	Vaughan, N. C.
Fisher, K. T.	Fr., Agr.	302 Welch, 3262	Whitakers, N. C.
Fisler, C. A.	Sr., M. E.	125 Bagwell, 3325	Ivanhoe, N. C.
Fitzsimons, G. O.	Fr., Tex.	1610 St. Mary's	Charlotte, N. C.
Flake, R. D.	Fr., Agr. Ch.	116 Turlington, 4213	Wadesboro, N. C.
Fleming, D. B.	Fr., E. E.	207 Bagwell, 3339	Portsmouth, Va.
Fleming, E. P.	Fr., Agr.	102 Bagwell, 3302	Grifton, N. C.
Fleming, R. H.	Fr., Tex.	309 Welch, 3269	Blakely, Ga.
Floyd, F. R.	Fr., Agr.	105 Gold, 3205	Fairmont, N. C.
Folley, J. W.	Grad., Tex. Mfg.	302 4th, 3128	Aberdeen, N. C.
Foltz, S. A., Jr.	Fr., Arch. E.	314 Becton, 3782	Spencer, N. C.
Fondren, J. E.	So., C. E.	115 Becton, 3715	Greensboro, N. C.
Ford, R. V.	Jr., M. E.	323 Alex., 4186	Winston-Salem, N. C.
Foreman, J. S.	So., Agr. Ed.	123 Becton, 3723	Albemarle, N. C.
Foster, C. S., Jr.	Fr., Tex.	110 Wat., 3010	Elkin, N. C.
Fountain, S. B., Jr.	Fr., Agr.	128 Alex., 4123	Chinquapin, N. C.
Fox, A. L.	Grad., Ch. E.	2410 Everett Ave.	New York, N. Y.
Fox, N. W.	Fr., Arch. E.	110 Welch, 3246	Roxboro, N. C.
Francis, C. T.	Fr., Agr.	109 Alex., 4107	Waynesville, N. C.

Name	*Classification*	*School Address Dorm. Box No. or St. No.*	*Home Address*
Franklin, B. D.	So., For.	203 Gold, 3215	Asheville, N. C.
Franklin, J. H.	Fr., Tex.	133 Bagwell, 3401	Fayetteville, N. C.
Franklin, T. S.	Fr., M. E.	13 Becton, 3815	Stem, N. C.
Frazelle, E. L.	So., M. E.	110 E. Lane	Raleigh, N. C.
Frazier, E. D.	Sr., M. E.	324 S. Boylan Ave.	High Point, N. C.
Frazier, Elizabeth J.	Grad., Tex. C. & D.	321 Pace	Wake Forest, N. C.
Freeman, D. G.	So., Ch. E.	1720 Hillsboro	Greensboro, N. C.
Freeman, Jeanne	Grad., Exp. Stat.	2406 Stafford Ave.	Providence, R. I.
Freeman, R. H., Jr.	Fr., Aero.	229 Becton, 3763	Winston-Salem, N. C.
Fuchs, D.	Sr., Tex. Mgt.	109 Oberlin Rd.	Kinston, N. C.
Fugate, P. T., Jr.	Sr., M. E.	217 Alex., 4146	Elm City, N. C.
Fulk, P. B.	Sp. No Coll. Cr.	E 302 Boylan Apts.	Pilot Mt., N. C.
Fuller, G. C.	Sr., Ch. E.	101 Gold, 3201	Gastonia, N. C.
Funderburg, W. H.	So., C. E.	305 Becton, 3773	Charlotte, N. C.
Furr, J. J.	Fr, M. E.	108 4th, 3118	Kannapolis, N. C.
Gacta, A. J.	Jr., Tex. Mfg.	4 Field House	Staten Island, N. Y.
Gallagher, K. E., Jr.	Fr., Aero.	311 Becton, 3779	Greensboro, N. C.
Gallimore, M.	Fr., Agr. Ed.	10 Berry, 4343	Denton, N. C.
Gallyon, C. A.	So., Agr.	1806 Hillsboro	Statesville, N. C.
Gamble, J. P.	Fr., Agr.	204 Becton, 3738	Lanes, S. C.
Gardner, D. A.	Fr., Ch. E.	Field House	Charlotte, N. C.
Garner, N. H.	Fr., Agr.	311 Berry, 4331	Newport, N. C.
Garrell, L. M.	Fr., C. E.	331 Bagwell, 3397	Clarendon, N. C.
Garrett, W. R.	Fr., Agr. E.	119 Becton, 3719	Columbus, N. C.
Garrison, T. R.	So., M. E.	101 Welch, 3237	Charlotte, N. C.
Gaskill, J. C.	Fr., Aero.	133 Alex., 4127	Harkers Island, N. C.
Gasperson, G. C., Jr.	Fr., M. E.	102 Logan Court	Arden, N. C.
Gatlin, L. W.	Sr., Gen. E.	103 Wat., 3003	Charlotte, N. C.
Gehrke, E. J.	So., Ind. E.	301 Alex., 4167	Greensboro, N. C.
Gentry, R. D., Jr.	Fr., E. E.	201 Becton, 3735	Sparta, N. C.
Geylan, H. M.	So., Tex.	312 Pogue	Istanbul, Turkey
Gibson, J. C.	Fr., Tex.	Field House	Kings Mountain, N. C.
Gibson, P. E.	Fr., Occ. I. & G.	Field House	Winston-Salem, N. C.
Gibson, R. M.	Fr., M. E.	113 Bagwell, 3313	Laurinburg, N. C.
Gies, F. T., Jr.	Fr., For.	221 Becton, 3755	Newport News, Va.
Gilbert, D. S.	Fr., Ch. E.	220 Becton, 3754	Winston-Salem, N. C.
Gilbert, J. H.	Fr., Tex.	102 Bagwell, 3302	Catawba, N. C.
Gill, J. R.	Fr., M. E.	124 Alex., 4119	Charlotte, N. C.
Gill, T. C.	So., Arch. E.	126 Alex., 4121	Kittrell, N. C.
Gillett, J. B.	So., C. E.	111 Wat., 3011	Charlotte, N. C.
Gilliam, C. L.	So., Tex.	Franklinton	Franklinton, N. C.
Gilmore, C. M., Jr.	So., Agr.	301 Alex., 4167	Greensboro, N. C.
Ginnings, G. K.	Fr., E. E.	111 Welch, 3247	Greensboro, N. C.
Glancy, W. L., Jr.	Fr., Tex.	108 Bagwell, 3308	Mt. Airy, N. C.
Glaser, M.	Fr., Tex.	321 Bagwell, 3387	Bronx, N. Y.
Glass, J. W., Jr.	Fr., M. E.	119 Park Ave.	Sanford, N. C.
Glenn, H. S., Jr.	Jr., Cer. E.	2412 Hillsboro	Charlotte, N. C.
Glock, E.	Fr., Agr.	303 Bagwell, 3369	Brooklyn, N. Y.
Godwin, T. S.	So., Agr.	104 Bagwell, 3304	Wilson, N. C.
Goehring, B. E.	Fr., Occ. I. & G.	Field House	Hillside, N. J.
Goldberg, H. I.	Fr., Tex.	226 Alex., 4155	Bessemer City, N. C.
Goldman, L. A.	So., Tex.	2902 Everett Ave.	Brooklyn, N. Y.
Goodman, Martha A.	Fr., Aero.	1916 Alex. Rd.	Raleigh, N. C.
Goodwill, Pamala	Pratt & W.	17 Enterprise	Roanoke, Va.
Gorenstin, C.	Jr., Tex. C. & D.	230 Alex., 4159	Rio de Janeiro, Brazil
Grady, J. C.	Fr., Agr.	14 Maiden Lane	Raleigh, N. C.
Graham, D. W.	Fr., Arch.	308 4th, 3134	Raleigh, N. C.
Graham, J. T.	Fr., Ag.	105 Alex., 4105	St. Pauls, N. C.
Grainger, J. M., Jr.	Fr., C. E.	306 Wat., 3042	Louisburg, N. C.

Name	*Classification*	*School Address Dorm. Box No. or St. No.*	*Home Address*
Grass, W. H., Jr.	So., Agr.	127 Becton, 3727	Sugar Hill, N. H.
Graves, Caroline F.	Pratt & W.	107 Chamberlain	Charlotte, N. C.
Gray, G. A.	So., Arch. E.	2209½ Hope	High Point, N. C.
Greatsinger, C. S.	So., C. E.	2209½ Hope	Babylon, N. Y.
Green, S. L.	Fr., Aero.	102 4th, 3112	Henderson, N. C.
Greenberg, L. H.	Fr., Ch. E.	104 Berry, 4304	Greensboro, N. C.
Greene, D. B.	Fr., Arch.	233 Becton, 3767	Drayton, S. C.
Greene, G. R.	Jr., M. E.	112 Wat., 3012	Hendersonville, N. C.
Greer, E. C.	Jr., Ch. E.	231 Becton, 3765	Spartanburg, S. C.
Greeson, H. K.	So., E. E.	104 Berry, 4304	Greensboro, N. C.
Grice, J. E.	Fr., E. E.	104 Bagwell, 3304	Lenoir, N. C.
Griffin, J. E., Jr.	Fr., Agr.	Dairy Farm	Dunkirk, N. Y.
Griffin, M. G.	Fr., Agr.	911 W. Johnson	Nashville, N. C.
Griffing, M. E.	Fr., M. E.	225 Alex., 4154	Bridge Hampton, N. Y.
Griffith, W. S.	So., M. E.	325 Becton, 3793	High Point, N. C.
Grigg, B. F.	Fr., C. E.	312 Berry, 4332	Gastonia, N. C.
Griggs, R. L., Jr.	Fr., E. E.	123 Becton, 3723	Badin, N. C.
Grigsby, C. E.	Jr., Aero.	115 Woodburn Rd.	Hilton Village, Va.
Grimes, J. W.	Fr., Aero.	304 Welch, 3264	Ahoskie, N. C.
Grimm, R. H.	Fr., M. E.	10 Enterprise	Oxford, N. C.
Groseclose, J. D.	Fr., Ch. E.	120 Bagwell, 3320	Greensboro, N. C.
Gudger, R. R.	Fr., For.	215 Alex., 4144	Candler, N. C.
Guirette, R. P. D.	Fr., Tex.	2720 Vanderbilt	Mexico City, Mex.
Gupton, B. E.	Sr., Tex. Mgt.	2513 Clark Ave.	High Point, N. C.
Guy, Jeanette C.	Pratt & W.	2226 Hillsboro	Newland, N. C.
Gwaltney, W. J.	Fr., Aero.	11-1911, Pow. Pl.	Hiddenite, N. C.
Gwyn, Mamie H.	Pratt & W.	2316 Hillsboro	Ararat, Va.
Hacker, G. G.	Fr., Tex.	103 Becton, 3703	Stanley, N. C.
Hadlow, J. R.	Fr., Aero.	310 Bagwell, 3376	Rocky Mount, N. C.
Hagler, J. J.	Sr., Ind. E.	YMCA	Leaksville, N. C.
Haislip, T. M.	Sr., An. Prod.	2412 Hillsboro	Oak City, N. C.
Hale, R. J.	Fr., C. E.	3 Berry, 4336	Rocky Mount, N. C.
Hales, W. M.	So., E. E.	103 Chamberlain	Raleigh, N. C.
Ham, C. D.	Fr., E. E.	315 Bagwell, 3381	Goldsboro, N. C.
Ham, L. M., III	Fr., Tex.	209 Bagwell, 3341	Greensboro, N. C.
Hamrick, L. H.	So., M. E.	308 Welch, 3268	Shelby, N. C.
Hamrick, M. Carolyn	Pratt & W.	4 Maiden Lane	Ellenboro, N. C.
Hamrick, P. R.	Fr., M. E.	303 Welch, 3263	Ellenboro, N. C.
Hansen, H. H.	Fr., M. E.	305 4th, 3129	Humacao, P. R.
Hardee, C. L.	Fr., C. E.	232 Becton, 3766	Greenville, N. C.
Hardee, J. H.	Jr., For.	209 Becton, 3743	High Point, N. C.
Hardin, L. T.	Fr., Agr.	202 Gold, 3214	Fairmont, N. C.
Hardin, W. K., Jr.	Fr., E. E.	301 Wat., 3037	Shelby, N. C.
Hardy, P. M.	Fr., Agr.	101 Alex., 4101	LaGrange, N. C.
Hargett, C. E.	Fr., E. E.	213 S. Harrington	Raleigh, N. C.
Hargrove, T. H., Jr.	Fr., Arch. E.	325 Becton, 3793	Roanoke Rapids, N. C.
Harmon, W. R., Jr.	Jr., E. E.	330 Becton, 3798	N. Wilkesboro, N. C.
Harper, C. B.	So., Tex.	302 Alex., 4168	High Point, N. C.
Harper, F. I., Jr.	Fr., Ind. E.	313 Berry, 4333	Charlotte, N. C.
Harper, H. H.	Jr., Agr. Ed.	103 Welch, 3239	Raleigh, N. C.
Harper, W. W.	Sr., C. E.	103 Chamberlain	Tarboro, N. C.
Harrell, B. H.	Fr., Agr.	8 Berry, 4341	Colerain, N. C.
Harrell, Doris	So., Ch. E.	1917 Sunset Dr.	Raleigh, N. C.
Harrington, N. B.	Fr., M. E.	301 4th, 3127	Broadway, N. C.
Harris, E. B., Jr.	Fr., M. E.	235 Alex., 4162	Hamlet, N. C.
Harris, G. B., Jr.	Fr., Tex.	317 Bagwell, 3383	Franklinton, N. C.
Harris, J. R.	Jr., W. & D.	202 Alex., 4134	Cambridge, Md.
Harrison, H. M., Jr.	Fr., E. E.	310 Gold, 3234	Snow Hill, N. C.
Harrison, J. H.	Fr., E. E.	328 Bagwell, 3394	Snow Hill, N. C.

Name	*Classification*	*School Address Dorm. Box No. or St. No.*	*Home Address*
Harrison, R. F.	Fr., M. E.	316 Bagwell, 3382	Ayden, N. C.
Hart, G. E.	Jr., Aero.	107 Wat., 3007	Goldsboro, N. C.
Hartholz, M. J.	Fr., Aero.	104 Becton, 3704	Greensboro, N. C.
Hartsock, C. M., Jr.	Sr., For.	205 Chamberlain, Box 5664	Raleigh, N. C.
Harwood, D. G., Jr.	Fr., Agr.	2 Berry, 4335	New London, N. C.
Hassell, C. C.	So., C. E.	302 4th, 3128	Takoma Park, Md.
Hawley, F. J., Jr.	Fr., M. E.	322 Becton, 3790	Roanoke Rapids, N. C.
Hay, O. P., Jr.	So., Gen. E.	105 Glenwood Ave.	Raleigh, N. C.
Hayes, D. L.	Fr., M. E.	104 Welch, 3240	High Point, N. C.
Hayes, E. E., Jr.	Fr., M. E.	105 Gold, 3205	Elkin, N. C.
Hayes, G.	Fr., Aero.	16 Becton, 3818	Monroe, N. C.
Hayes, S. Kathryn	Fr., Aero.	111 Brooks Ave.	St. Andrews, Fla.
Haynie, E. D.	Fr., E. E.	319 Bagwell, 3385	Swannanoa, N. C.
Head, W. G., Jr.	Fr., Ch. E.	322 Bagwell, 3388	Wilmington, N. C.
Hecht, A. H.	Fr., C. E.	134 Becton, 3734	Norlina, N. C.
Hedgepeth, R. L.	Fr., E. E.	17 Becton, 3819	Warrenton, N. C.
Helms, I. L., Jr.	So., M. E.	123 Bagwell, 3323	Portsmouth, Va.
Helms, R. P.	Fr., Tex.	305 Wat., 3041	Rutherfordton, N. C.
Henderson, D. L.	So., C. E.	2512½ Clark Ave.	Raleigh, N. C.
Henderson, J. P., Jr.	Fr., Aero.	110 Becton, 3710	Shelby, N. C.
Hendrix, A. E.	So., Ind. E.	18 Maiden Lane	Raleigh, N. C.
Hendrix, C. M., Jr.	So., Ch. E.	116 Horne	Swannanoa, N. C.
Henkle, D. K.	Fr., E. E.	318 Becton, 3786	Stanley, N. C.
Hepler, J. S.	Sr., Aero.	10 Enterprise	Greensboro, N. C.
Hepler, R. M.	Fr., Arch. E.	132 Becton, 3732	Greensboro, N. C.
Herring, E. E.	So., Arch. E.	105 Wat., 3005	Durham, N. C.
Herring, H. H.	Fr., Agr.	225 Bagwell, 3357	Barnesville, N. C.
Herring, M. J.	Fr., Agr.	109 Gold, 3209	La Grange, N. C.
Herring, P.	Fr., M. E.	106 Welch, 3242	Goldsboro, N. C.
Hersh, S. P.	Fr., Ch. E.	220 Bagwell, 3352	Winston-Salem, N. C.
Hester, W. F., Jr.	Fr., Arch. E.	218 Wat., 3036	High Point, N. C.
Hickman, G. L.	Fr., Aero.	111 Becton, 3711	Bladenboro, N. C.
Hicks, F. R.	Fr., Aero.	1720 Hillsboro	High Point, N. C.
Hicks, G. L.	So., Aero.	201 Ashe Ave.	Raleigh, N. C.
High, E. O.	Fr., E. E.	2 Becton, 3804	Wilson, N. C.
Higgins, B. B.	Fr., C. E.	309 Wat., 3045	Shelby, N. C.
Hight, Mary Elizabeth	So., Occ. I. & G.	2306 Hillsboro	Henderson, N. C.
Hill, F. W., Jr.	Fr., E. E.	208 Gold, 3220	Snow Hill, N. C.
Hilley, H. S., Jr.	So., Agr.	2514 Clark Ave.	Wilson, N. C.
Hinton, W. W.	So., M. E.	10 Enterprise	Selma, N. C.
Hipp, W. N., Jr.	Fr., E. E.	117 Bagwell, 3317	Hickory, N. C.
Hobbs, J. E.	Grad., For.	203 Wat., 3021	Edenton, N. C.
Hobbs, L. M., Jr.	Fr., Aero.	4 Becton, 3806	Lumberton, N. C.
Hobbs, R. M.	Fr., Agr.	221 Bagwell, 3353	Council, N. C.
Hobbs, W. G.	So., Agr.	12½ Horne, Box 5665	Roseboro, N. C.
Hobbs, W. L., Jr.	So., Agr. E.	110 Wat., 3010	Delco, N. C.
Hobgood, T. N., Jr.	Fr., Agr.	105 Gold, 3205	Oxford, N. C.
Hockett, S. H., Jr.	Fr., Agr.	304 Becton, 3772	Pleasant Garden, N. C.
Hodges, L. E.	Fr., Agr.	218 Becton, 3752	Grimesland, N. C.
Hodges, T. A.	So., Arch. E.	340 Alex., 4199	Fayeteville, N. C.
Hodges, W. L.	Fr., E. E.	307 Becton, 3775	Wadesboro, N. C.
Hodul, N.	Jr., For.	325 Bagwell, 3391	New York, N. Y.
Hoffman, M.	So., Agr.	240 Alex., 4166	New York, N. Y.
Hofmann, J. G.	Grad., For.	2800 Fairview Rd.	Raleigh, N. C.
Hogan, R. T.	Fr., M. E.	2210 Hope	Burlington, N. C.
Hoke, R. D.	Fr., E. E.	307 Gold, 3231	Granite Quarry, N. C.
Holbrook, R. L., Jr.	Fr., Tex.	219 Becton, 3753	Albemarle, N. C.
Holcomb, C. D.	Fr., E. E.	10 Becton, 3812	Yadkinville, N. C.
Holder, L.	Fr., Agr.	309 Berry, 4329	Lillington, N. C.
Holder, W. F.	Fr., E. E.	231 Bagwell, 3363	Candor, N. C.

Name	*Classification*	*School Address Dorm. Box No. or St. No.*	*Home Address*
Holeman, J. H.	Fr., Agr.	102 Welch, 3238	Timberlake, N. C.
Holleman, D. E.	Fr., Tex.	229 Bagwell, 3361	Roxboro, N. C.
Holloway, J. S.	Jr., Arch. E.	520 Polk St.	Raleigh, N. C.
Hollowell, E. T.	Fr., Agr. Ed.	10 YMCA, Box 5276	Rich Square, N. C.
Honeycutt, C. H.	Fr., Tex.	320 Bagwell, 3386	Franklinton, N. C.
Honeycutt, R. A.	Fr., M. E.	107 Alex., 4106	Kannapolis, N. C.
Hooper, R. M., Jr.	Fr., E. E.	209 Welch, 3257	Aberdeen, N. C.
Hoover, E. F.	Fr., C. E.	329 Becton, 3797	Lenoir, N. C.
Hopkins, D. O.	Fr., M. E.	111 Welch, 3247	Cameron, N. C.
Hopkins, J. M.	Fr., Agr.	311 Becton, 3779	Creswell, N. C.
Hord, J. L.	Fr., E. E.	109 Welch, 3245	Kings Mountain, N. C.
Horne, C. M.	Jr., Ch. E.	125 Hawthorn	Roanoke Rapids, N. C.
Horne, R. F.	Fr., Tex.	206 Bagwell, 3338	Burlington, N. C.
Horne, T. A.	Fr., E. E.	201 Becton, 3735	Wilmington, N. C.
Horton, S. F.	Fr., E. E.	126 Becton, 3726	Sugar Grove, N. C.
Hoskins, J. A.	So., Agr.	222 Becton, 3756	Summerfield, N. C.
Houle, R. F.	Grad., Agr. Ch.	609 W. Peace	New Bedford, Mass.
House, D. T.	Jr., For.	224 Becton, 3758	Beaufort, N. C.
House, G. M.	Jr., Agron. (F.C.)	2412 Hillsboro	Scotland Neck, N. C.
Houston, J. J.	So., Tex.	121 Becton, 3721	Bonlee, N. C.
Howard, J. S.	So., Aero.	8 Berry, 4341	Lenoir, N. C.
Howell, R. G.	Fr., E. E.	210 Gold, 3222	Candler, N. C.
Hsiong, C. S.	Grad., Agron. (F.C.)	23 Logan Court	Chungking, China
Hudgins, F. M.	So., Agr. Ed.	210 Park Ave.	Raleigh, N. C.
Hudson, C. G.	Fr., Agr.	312 Becton, 3780	Grimesland, N. C.
Huffine, E. B., Jr.	Fr., Aero.	216 Alex., 4145	Greensboro, N. C.
Huffman, J. C.	So., Ch. E.	207 Wat., 3025	Statesville, N. C.
Hughes, C. W.	So., C. E.	2412 Hillsboro	Roxboro, N. C.
Hughes, R. M.	Fr., Arch.	115 Becton, 3715	Wilson, N. C.
Huneycutt, J. C., Jr.	Fr., C. E.	210 Bagwell, 3342	Kannapolis, N. C.
Hunt, C. H.	Fr., M. E.	127 Becton, 3727	Henderson, N. C.
Hunt, E. C., Jr.	Fr., M. E.	102 Welch, 3238	Henderson, N. C.
Hunt, J. S.	So., E. E.	218 Becton, 3752	High Point, N. C.
Hunt, P. M.	Fr., M. E.	222 Bagwell, 3354	N. Wilkesboro, N. C.
Hutchins, C. T., Jr.	Fr., M. E.	309 Bagwell, 3375	Durham, N. C.
Hwang, M. Y.	Aud.	203 4th, 3121	Canton, China
Ianora, Amalia M.	So., Occ. I. & G.	3138 Stanhope Ave.	Brooklyn, N. Y.
Isenhour, H. H.	Fr., C. E.	327 Bagwell, 3393	Newton, N. C.
Israel, J. L.	Fr., E. E.	305 4th, 3131	Candler, N. C.
Jackson, E. E.	Fr., Aero.	105 Alex., 4105	St. Pauls, N. C.
Jackson, G. A.	Fr., Aero.	331 Becton, 3799	New Bern, N. C.
Jackson, L., Jr.	Fr., Aer.o	218 Bagwell, 3350	Erwin, N. C.
Jackson, O. W.	Fr., Agr. Ed.	327 Bagwell, 3393	Goldsboro, N. C.
Jacobovitz, M.	Fr., Tex.	Field House	Wilkes-Barre, Pa.
James, B. W.	Fr., E. E.	301 Becton, 3769	Robersonville, N. C.
James, Janie E.	Pratt & W.	2316 Hillsboro	Bethel, N. C.
James, W. E.	Jr., Arch. E.	125 Woodburn Rd.	Farmington, N. C.
Jamison, J. D.	Fr., Arch. E.	128 Becton, 3728	Hendersonville, N. C.
Jaramillo, H. J.	So., Tex.	10 Enterprise	New York, N. Y.
Jasmin, J. B	Fr., M. E.	Field House	Rutland, Vt.
Jenkins, F. N.	Fr., C. E.	206 Wat., 3024	Greensboro, N. C.
Jensen, E. F.	Fr., Arch. E.	Field House	Brooklyn, N. Y.
Jernigan, G. J., Jr.	Fr., Arch.	15 Becton, 3817	Dunn, N. C.
Johnson, D. P.	So., Ag. Ch.	106 Wat., 3006	Delco, N. C.
Johnson, Hampton Gray	Fr., For.	206 Gold, 3218	Greensboro, N. C.
Johnson, I. A.	So., E. E.	218 Wat., 3036	Rocky Mount, N. C.
Johnson, Marvin Bernard, Jr.	Fr., Aero.	115 Bagwell, 3315	Pendleton, N. C.
Johnson, Myatt Bernard	Sr., Aero.	125 Woodburn Rd.	Bahama, N. C.

Name	*Classification*	*School Address Dorm. Box No. or St. No.*	*Home Address*
Johnson, P. L.	Fr., M. E.	12 E. Dixie Dr.	Hobgood, N. C.
Johnson, Wm. Earl, Jr.	So., Gen. E.	134 Becton, 3734	Asheville, N. C.
Johnson, W. H.	Fr., Aero.	120 Becton, 3720	Greensboro, N. C.
Johnson, Wm. Ramon	Fr., Aero.	224 Alex., 4153	Suffolk, Va.
Johnson, Wm. Raymond	Fr., M. E.	209 Wat., 3027	Morrisville, N. C.
Johnston, H. W.	Fr., C. E.	329 Bagwell, 3395	Cramerton, N. C.
Jones, D. W.	Fr., Geol. E.	Box 57, Cary	Cary, N. C.
Jones, E. B.	Fr., E. E.	22 Syme, 3618	Pelham, N. C.
Jones, H. A., III	Fr., Arch. E.	103 Chamberlain	Durham, N. C.
Jones, H. E.	Fr., For.	Field House	Big Stone Gap, Va.
Jones, James Harold	Fr., Agr. Ed.	118 Alex., 4115	Lake Toxaway, N. C.
Jones, James Henry	Fr., Gen. E.	9 Maiden Lane	Charlotte, N. C.
Jones, J. T., Jr.	So., Tex.	117 Becton, 3717	Shelby, N. C.
Jones, Robt. Arthur	Fr., Aero.	303 Gold, 3227	Southport, N. C.
Jones, R. H.	Fr., E. E.	224 Becton, 3758	Roxboro, N. C.
Jones, S. G., Jr.	So., Aero.	304 Syme, 3568	Asheville, N. C.
Jones, W. N.	Jr., E. E.	803 N. Person	Raleigh, N. C.
Jordan, C. W.	Fr., For.	212 Park Ave.	Raleigh, N. C.
Jordan, C. Y.	Fr., M. E.	Box 54, Cary	Cary, N. C.
Jordan, Mary Ellen (Miss)	Pratt & W.	206 Chamberlain	Siler City, N. C.
Jordan, P. R., Jr.	Jr., Agr.	113 Wat., 3013	Wilmington, N. C.
Joyner, A. L.	So., E. E.	316 Wat., 3052	Nashville, N. C.
Kaden, H. A.	So., Tex.	109 Oberlin Rd.	New York, N. Y.
Kalet, B. M.	Fr., M. E.	15 Becton, 3817	Winston-Salem, N. C.
Kamber, L. G.	Fr., Tex.	231 Bagwell, 3363	Woodmere, N. Y.
Keever, J. A.	Fr., E. E.	218 Alex., 4147	Hiddenite, N. C.
Kelley, J. E.	Fr., C. E.	26 Becton, 3826	Henderson, N. C.
Kelly, G. B.	Fr., Occ. I. & G.	1327 Mordecai Dr.	Raleigh, N. C.
Kelly, R. W.	Sr., M. E.	2513 Clark Ave.	Merrick, N. Y.
Kelly, V. C.	Fr., M. E.	107 Becton, 3707	Carthage, N. C.
Kendrick, R. F.	So., Arch. E.	309 Wat., 3045	Shelby, N. C.
Kennedy, F. R.	Fr., Agri.	120 Hillcrest Rd.	Goldsboro, N. C.
Kennison, R. W., Jr.	Sr., M. E.	210 Pace	Raleigh, N. C.
Kepley, T. A.	Fr., Arch.	203 Welch, 3251	Hickory, N. C.
Ketchie, H. R.	Fr., M. E.	205 Bagwell, 3337	Kannapolis, N. C.
Kevit, E. P.	Fr., C. E.	Field House	Beacon Falls, Conn.
Kezziah, J. R.	So., Tex.	2513 Clark	Kannapolis, N. C.
Kimel, R. A.	Fr., Agr. Ed.	601 Brooks Ave.	Clemmons, N. C.
King, A. B.	Jr., Aero.	217 Becton, 3751	St. Pauls, N. C.
King, G. W., Jr.	So., Tex.	301 Wat., 3037	Charlotte, N. C.
King, John Ben	Fr., M. E.	228 Bagwell, 3360	Wallburg, N. C.
King, Jos. Bertram	Fr., Arch.	1208 College Pl.	Asheville, N. C.
King, J. N.	So., M. E.	2209½ Hope	Salisbury, N. C.
Kirk, C. M.	Fr., Agr. Ed.	6 Becton, 3808	Knightdale, N. C.
Kirkman, G. C., Jr.	Fr., Arch.	205 Bagwell, 3337	Charlotte, N. C.
Kirkman, W. G.	So., Tex.	222 Becton, 3756	Pleasant Garden, N. C.
Kirkman, W. M.	Fr., Ind. E.	324 Bagwell, 3390	Greensboro, N. C.
Kistler, C. E.	So., C. E.	304 Gold, 3228	Star, N. C.
Kivelson, A. J.	So., Tex.	231 Alex., 4160	New York, N. Y.
Klibbe, J. W.	Fr., Tex.	2101 Glenwood Ave.	Raleigh, N. C.
Klock, J. T.	Fr., Arch. E.	Field House	Frackville, Penn.
Kluttz, J. W.	Fr., C. E.	114 Bagwell, 3314	China Grove, N. C.
Kluttz, W. C.	Fr., C. E.	104 Berry, 4304	Concord, N. C.
Knight, K. R.	Fr., M. E.	121 Bagwell, 3321	High Point, N. C.
Knight, W. A., Jr.	Fr., Ind. A. Ed.	130 Becton, 3730	Asheville, N. C.
Knowles, D. B.	Fr., Gen. E.	310 Becton, 3778	Wallace, N. C.
Kohler, S.	Jr., E. E.	125 Woodburn Rd.	New York, N. Y.
Koppel, D.	Fr., Aero.	101 Bagwell, 3301	New York, N. Y.
Kram, W. F., Jr.	Jr., Agr. E.	240 Alex., 4166	Mexico

Name	*Classification*	*School Address Dorm. Box No. or St. No.*	*Home Address*
Lampke, D. B.	So., E. E.	1720 Hillsboro	Charlotte, N. C.
Landingham, K. A.	Fr., M. E.	303 Bagwell, 3369	Winston-Salem, N. C.
Lane, R. H.	Sr., Agron. (F.C.)	700 E. Whitaker Mill Rd.	Raleigh, N. C.
Langston, E. E.	Fr., Agr.	227 Bagwell, 3359	Rocky Point, N. C.
Lanier, J. H.	Fr., Aero.	104 Gold, 3204	Eldorado, N. C.
Lanier, R. E.	Fr., Tex.	12 Becton, 3814	Wallace, N. C.
Lassiter, G. Y.	Sp. No Coll. Cr.	3201 Bedford Ave.	Raleigh, N. C.
Lassiter, M. V., Jr.	Sr., M. E.	103 Chamberlain	Richmond, Va.
Lassiter, W. C., Jr.	Fr., Aero.	303 Becton, 3771	Robbins, N. C.
Latham, H. R.	Fr., Aero.	313 Becton, 3781	Norfolk, Va.
Lattimore, W. A.	Fr., Agr.	13 Becton, 3815	Columbia, S. C.
Laughlin, R. C.	Sr., Ch. E.	314 Alex., 4177	Tarboro, N. C.
Lawing, T. R.	Fr., Agr. E.	310 Wat., 3046	Charlotte, N. C.
Layton, H. W., Jr.	Fr., Ch. E.	116 Becton, 3716	Charlotte, N. C.
Leary, S. M.	Fr., Aero.	107 Alex., 4106	Camden, N. C.
Leary, S. S.	Fr., Ch. E.	115 Woodburn Rd.	Ahoskie, N. C.
Ledbetter, A. T., Jr.	So., M. E.	211 Becton, 3745	Marion, N. C.
Lee, J. W.	Fr., Aero.	106 Gold, 3206	Dunn, N. C.
Leeper, B. M.	Fr., C. E.	218 Alex., 4147	Dallas, N. C.
Lefkowits, S. J.	Sp. No Coll. Cr.	304 Berry, 4324	Highland Park, N. J.
Leggette, C. P.	Fr., M. E.	304 Becton, 3772	Fairmont, N. C.
Leitch, J. C.	So., Ch. E.	214 Bagwell, 3346	Elberton, Ga.
LeMay, A. T.	So., Arch. E.	304 Bickett Blvd.	Raleigh, N. C.
LeMay, J. C.	Fr., Ind. E.	304 Bickett Blvd.	Raleigh, N. C.
Levenson, M. E.	Fr., Tex.	226 Bagwell, 3358	Hartsdale, N. Y.
Lewis, H. J.	So., Ch. E.	116 Wat., 3016	Louisburg, N. C.
Lewis, K. H.	Fr., C. E.	118 Wat., 3018	Mountain Park, N. C.
Lewis, L. J.	Fr., Ch. E.	114 Wat., 3014	Louisburg, N. C.
Lewis, Q. M.	So., Tex.	315 Becton, 3783	Marshallberg, N. C.
Lewis, T. J., Jr.	Fr., Agr. Ch.	227 Bagwell, 3359	Fayetteville, N. C.
Lewis, W. C.	Fr., Aero.	303 Becton, 3771	Eagle Springs, N. C.
Liles, C. H.	Fr., Tex.	Garner	Garner, N. C.
Liles, F. N.	Fr., Agr.	327 Becton, 3795	Garland, N. C.
Liles, R. A.	Fr., Tex.	304 Gold, 3228	Lilesville, N. C.
Link, K. C.	Fr., M. E.	1806 Hillsboro	Granite Falls, N. C.
Linkous, W. H.	Grad., Ag. Ec.	Box 2779	
Linville, J. D.	So., Tex.	206 Welch, 3254	Kernersville, N. C.
Littlefield, B. E., Jr.	Fr., Cer. E.	226 Bagwell, 3358	Fairmont, N. C.
Lloyd, R. L.	Fr., Aero.	103 Bagwell, 3303	Chapel Hill, N. C.
Lockhart, J. K.	Jr., Ch. E.	210 Becton, 3744	Hillsboro, N. C.
Lomax, R. F.	So., C. E.	8 Berry, 4341	Lenoir, N. C.
Long, G. C.	Fr., C. E.	120 Becton, 3720	Roxboro, N. C.
Loomis, Kathleen M. (Mrs.),	Fr.,Oc.I.&G.	2602 Clark Ave.	Elizabethtown, N. C.
Lore, R. C.	Fr., E. E.	129 Becton, 3729	Rocky Mount, N. C.
Lovin, L. G., Jr.	Fr., Tex.	1720 Hillsboro	Roanoke, Va.
Lowder, H. L.	Fr., Ch. E.	322 Bagwell, 3388	Albemarle, N. C.
Lowell, W. A.	Fr., Tex.	101 Bagwell, 3301	Mansfield, Conn.
Lowery, W. S.	So., M. E.	334 Becton, 3802	Charlotte, N. C.
Lucas, B. L., Jr.	Grad., Agr. Ch.	136 Woodburn Rd.	Fredericksburg, Va.
Lucas, J. S.	So., Tex.	125 Alex., 4120	Greensboro, N. C.
Lynch, E. P., Jr.	Sr., Ch. E.	303 Wat., 3039	Charlotte, N. C.
Lynch, J. R., Jr.	Fr., M. E.	105 Gold, 3205	Whiteville, N. C.
Lynn, W. W.	So., For.	333 Bagwell, 3399	Greenville, Ala.
McAdams, J. F.	Fr., Agr. Ed.	302 Gold, 3226	Mebane, N. C.
McAllister, J. N.	Fr., C. E.	329 Bagwell, 3395	Kannapolis, N. C.
McBride, E. W.	Fr., Agr. Ed.	127 Bagwell, 3327	Taylorsville, N. C.
McCachern, C. W., Jr.	Fr., M. E.	311 Wat., 3047	Winston-Salem, N. C.
McCall, J. A.	Sr., Tex. Mfg.	1610 St. Mary's	Reidsville, N. C.
McCallum, L., Jr.	Fr., Agr.	225 Bagwell, 3357	Rowland, N. C.

Name	*Classification*	*School Address* *Dorm. Box No. or St. No.*	*Home Address*
McCann, C. J.	Fr., E. E.	2729 Everett Ave.	Charlotte, N. C.
McCleney, D. D.	Fr., M. E.	324 Bagwell, 3390	Chadbourn, N. C.
McConnaughey, Jane S.	Pratt & W.	206 Chamberlain	Red Springs, N. C.
McCord, W. H.	Fr., C. E.	10 Becton, 3812	Huntersville, N. C.
McCoy, R. L.	Fr., Arch. E.	116 Alex., 4113	New Bern, N. C.
MacDonald, J., Jr.	Jr., Tex. Mfg.	112 Gold, 3212	Charlotte, N. C.
McDonald, Matilda S.	So., Occ. I. & G.	805 Halifax	Raleigh, N. C.
McDowell, H. T.	So., M. E.	205 Becton, 3739	Rocky Mount, N. C.
McDowell, J. M.	Fr., E. E.	205 Wat., 3023	Goldsboro, N. C.
McDuffie, M. A.	So., C. E.	112 Welch, 3248	Lumberton, N. C.
McGeady, J. P.	Fr., C. E.	104 Wat., 3004	Wilson, N. C.
McGee, H., Jr.	Fr., Cer. E.	308 Bagwell, 3374	Elizabeth City, N. C.
McGinnis, C. R.	Fr., E. E.	219 Alex., 4148	Kings Mountain, N. C.
McInnis, W. D., Jr.	Fr., Aero.	102 4th, 3112	Henderson, N. C.
McIntyre, B. C., Jr.	Fr., Gen. E.	212 Wat., 3030	Maxton, N. C.
McIntyre, W. B.	Fr., M. E.	105 Becton, 3705	Red Oak, N. C.
McKinney, J. V., Jr.	Fr., Ch. E.	203 Welch, 3251	Hickory, N. C.
McKinnon, W. H.	Fr., E. E.	307 Becton, 3775	Wadesboro, N. C.
McLawhorn, C. L.	Fr., Agr.	137 Alex., 4129	Winterville, N. C.
McLendon, W. E.	Fr., Ch. E.	334 Becton, 3802	Washington, D. C.
McMaster, Margaret J.	Fr., Ch. E.	1718 Hillsboro	Raleigh, N. C.
McMillan, C. W.	Fr., Agr. Ed.	7 Becton, 3809	Stedman, N. C.
McMillan, H. D.	Fr., Agr. Ch.	124 Alex., 4119	Wade, N. C.
McMillin, Marcia	So., Occ. I. & G.	209 Woodburn Rd.	Raleigh, N. C.
McPherson, W. A., Jr.	Fr., Agr. Ed.	135 Alex., 4128	Northwest, Va.
McQuay, E. E.	Fr., E. E.	307 Bagwell, 3373	Charlotte, N. C.
Mackie, M. M.	Fr., Arch. E.	232 Bagwell, 3364	Winston-Salem, N. C.
Macklen, H. L., Jr.	Fr., M. E.	205 Gold, 3217	Myrtle Beach, S. C.
Macom, J. A., Jr.	Grad., M. E.	339 Alex., 4199	Pocahontas, Va.
Madden, D. J.	Fr., For.	1005 Harvey	Austin, Tex.
Madden, Lois M.	So., Ch. E.	205 Ashe Ave.	Bridgeport, Conn.
Maddrey, R. W.	Fr., M. E.	106 E. Peace	Raleigh, N. C.
Maddry, H. B.	Sen., C. E.	Avent Ferry Rd.	Nazareth, N. C.
Maddry, L. G.	Grad., Pl. Path.	708 W. Jones	Raleigh, N. C.
Maddux, N. S.	Fr., Agr.	2404 Everett Ave.	Raleigh, N. C.
Mahoney, E. J.	Sr., C. E.	12½ Horne	Brooklyn, N. Y.
Mall, Clelie C.	Fr., Tex.	232 E. Park Dr.	New Orleans, La.
Manekin, S. A.	Fr., Tex.	303 Bagwell, 3369	Asheville, N. C.
Maness, L. V.	Fr., Agr.	109 Gold, 3209	Rockingham, N. C.
Mangum, R. W.	Fr., M. E.	6 Becton, 3808	Stem, N. C.
Mann, L. A., Jr.	So., Ch. E.	Infirmary	Newport, N. C.
Mann, T. J.	Grad., Agr. Ed.	600 Brooks Ave.	Lake Landing, N. C.
Manning, C. H.	Fr., C. E.	207 Bagwell, 3339	Greenville, N. C.
Manning, H. N.	Fr., Agr. Ed.	328 Becton, 3796	Richlands, N. C.
Mappus, W. A.	Grad., Agr. Ch.	311 Welch, 3271	Navy Yard, S. C.
Marshall, H. C., Jr.	Fr., Gen. E.	212 Becton, 3746	Rose Hill, N. C.
Marshburn, J. L., Jr.	Fr., Cer. E.	208 Bagwell, 3340	Wilmington, N. C.
Martin, J. R.	So., Ch. E.	300 Horne	Cramerton, N. C.
Martin, L. W.	Fr., M. E.	6 Becton, 3808	Elon College, N. C.
Martin, T. J.	Sr., Tex. Mfg.	12 Horne	Walkertown, N. C.
Martin, T. M.	Fr., Ch. E.	209 Wat., 3027	Cramerton, N. C.
Marz, W. G.	Fr., Agr.	3 Becton, 3805	Derita, N. C.
Mashburn, P., Jr.	Fr., Aero.	207 Alex., 4138	Chadbourn, N. C.
Mason, J. H., Jr.	Fr., Tex.	326 Bagwell, 3392	Greensboro, N. C.
Massey, C. L., Jr.	Fr., E. E.	332 Becton, 3800	Wilmington, N. C.
Masten, G. M., Jr.	So., M. E.	2513 Clark Ave., Box 5656, W.-Salem, N. C.	
Matthews, C. L.	Jr., Ch. E.	201 Wat., 3019	East Bend, N. C.
Mattox, K. L.	Fr., Gen. E.	217 Becton, 3751	Salisbury, N. C.
May, D. C., Jr.	So., E. E.	103 Chamberlain	New Bern, N. C.

Name	*Classification*	*School Address Dorm. Box No. or St. No.*	*Home Address*
Maynard, E. T., Jr	Fr., E. E.	204 Welch, 3252	Dunn, N. C.
Maynard, G. J.	Sr., Flori.	Box 282, Apex	Apex, N. C.
Meador, J. T.	Fr., Aero.	8½ Maiden Lane	Union, S. C.
Meekins, G. W.	Fr., M. E.	204 Welch, 3252	Engelhard, N. C.
Mendonca, A. O. P.	Jr., Tex. C. & D.	228 Alex., 4157	Rio de Janeiro, Brazil
Mercer, D. L., Jr.	So., Agr. Ed.	105 Welch, 3241	Bolivia, N. C.
Merritt, A. H., Jr.	Fr., E. E.	113 Wat., 3013	Mt. Airy, N. C.
Michael, A. D.	Fr., E. E.	113 Becton, 3713	Gastonia, N. C.
Miller, E. L., Jr.	Grad., Geol. E.	Leesville Rd.	Raleigh, N. C.
Miller, E. R.	Fr., Agr.	113 Alex., 4110	Boonville, N. C.
Miller, H. G., Jr.	Fr., Tex.	205 Alex., 4137	Hickory, N. C.
Miller, H. Y.	Jr., Aero.	201 Alex., 4133	Brevard, N. C.
Miller, L. B., Jr.	Fr., Agr. E.	2212 Hope	Merritt, N. C.
Miller, L. G.	Fr., Tex.	214 Bagwell, 3346	Hamptonville, N. C.
Miller, L. H.	So., Agr.	132 Bagwell, 3332	Ft. Barrancas, Fla.
Miller, Mary Elizabeth	So., Tex.	226 Chamberlain	Raleigh, N. C.
Miller, W. W.	Fr., Ind. E.	14 Becton, 3816	Greensboro, N. C.
Millican, H. B., Jr.	Fr., Tex.	209 Bagwell, 3341	Greensboro, N. C.
Millman, A. L.	Fr., Tex.	137 Alex., 4129	Gastonia, N. C.
Milloway, W. H.	Sr., Ind. E.	334 Bagwell, 3400	Greensboro, N. C.
Mills, G. A.	Fr., E. E.	1 Berry, 4334	Watha, N. C.
Mills, R. W.	Fr., Aero.	1808 Sunset Dr.	Raleigh, N. C.
Millsaps, J. C.	Jr., C. E.	208 Wat., 3026	Statesville, N. C.
Mims, W. J.	Fr., Occ. I. & G.	624 Devereux	Raleigh, N. C.
Mitchell, C.	So., Tex.	321 Bagwell, 3387	New York, N. Y.
Mitchell, J. F.	Fr., Arch. E.	103 Gold, 3203	Denton, N. C.
Mitchell, J. R.	Fr., C. E.	108 Welch, 3244	Pilot Mountain, N. C.
Mizelle, M. B.	Sr., C. E.	103 Wat., 3003	Bethel, N. C.
Moffitt, B. J.	Fr., Occ. I. & G.	210 E. Whitaker Mill Rd.	Raleigh, N. C.
Moniz, J. B.	Sr., Ch. E.	1304 Hillsboro	New Bedford, Mass.
Monk, G. B.	Fr., Tex.	321 Alex., 4184	
Monroe, J. M.	Sr., M. E.	2513 Clark Ave.	Hamlet, N. C.
Moore, A. W., Jr.	Fr., Agr.	303 Gold, 3227	Southport, N. C.
Moore, B. H.	Fr., M. E.	207 Wat., 3025	Four Oaks, N. C.
Moore, D. R.	Fr., Agr. E.	323 Bagwell, 3389	Hurdle Mills, N. C.
Moore, Frances M.	Grad., Agr. Ch.	1307 Hillsboro	Kinston, N. C.
Moore, W. C., Jr.	Fr., E. E.	210 Wat., 3028	New Bern, N. C.
Moran, E. W. P.	Fr., Ch. E.	230 Becton, 3764	Henderson, N. C.
Morgan, L. L., Jr.	Fr., E. E.	1302 Mordecai Dr.	Raleigh, N. C.
Morgan, T. J.	Jr., Agron.	324 Becton, 3792	Peachland, N. C.
Morgan, W. F.	Fr., Aero.	302 Gold, 3226	Troutman, N. C.
Morris, E.	So., Tex.	2410 Beechridge Rd.	Raleigh, N. C.
Morris, M. Shirley	Sp. No Coll. Cr.	1705 Fairview Rd.	Greenville, S. C.
Morton, B. S.	Fr., M. E.	2513 Clark Ave.	Albemarle, N. C.
Morton, C. L.	So., E. E.	117 Wat., 3017	Washington, N. C.
Moses, T. O.	Fr., Agr.	308 Becton, 3776	Aberdeen, N. C.
Moses, W. R.	Fr., Arch. E.	114 Alex., 4111	Goldston, N. C.
Moss, C. H., Jr.	So., Tex.	2513 Clark Ave., Box 5656,	Kings Mt., N. C.
Moss, J. E.	Fr., E. E.	101 Becton, 3701	Barnardsville, N. C.
Moss, J. T.	Jr., An. Prod.	107 4th, 3117	Youngsville, N. C.
Moss, R. W.	Fr., Tex.	109 Welch, 3245	Kings Mt., N. C.
Mulford, R. E.	Fr., E. E.	213 Becton, 3747	Matthews, N. C.
Munger, E. L.	Fr., For.	1806 Hillsboro	Highlands, N. C.
Mullis, J. B.	Fr., M. E.	1806 Hillsboro	Monroe, N. C.
Murakishi, H.	Grad., Pl. Path.	2510 Vanderbilt Ave.	Seabrook, N. J.
Murdoch, W. S.	Sr., Tex. Mgt.	215 Wat., 3015	Salisbury, N. C.
Murdock, J. E., Jr.	Fr., M. E.	Highland Ridge Rd., Rt. 6	Raleigh, N. C.
Musselwhite, H. L.	Fr., E. E.	211 Gold, 3223	Fairmont, N. C.
Myers, F. B.	So., M. E.	9 YMCA	Pinehurst, N. C.
Myrick, D. E.	Fr., Tex.	118 Bagwell, 3318	Asheville, N. C.

Name	Classification	School Address Dorm. Box No. or St. No.	Home Address
Naugler, A. W.	Fr., M. E.	Field House	Beverly, Mass.
Navarro, J. O.	So., Tex.	10 Enterprise	Colombia, S. A.
Neal, B. J.	Fr., Agr.	128 Becton, 3728	Reidsville, N. C.
Neal, H. S.	Fr., Ch. E.	2507 Vanderbilt Ave.	Raleigh, N. C.
Neal, W. K.	Fr., Aero.	209 Berry, 4316	Roanoke Rapids, N. C.
Neely, H. M.	Fr., E. E.	10 Berry, 4343	Charlotte, N. C.
Newkirk, J. W.	Fr., E. E.	116 Bagwell, 3316	Magnolia, N. C.
Nichols, R. B., Jr.	Fr., Agr.	328 Becton, 3796	Efland, N. C.
Noah, J. W.	Fr., Aero.	206 Wat., 3024	Greensboro, N. C.
Norman, Kathryn W.	Grad., Exp. Stat.	622 Hillsboro	Raleigh, N. C.
Norris, J. R., Jr.	Fr., Arch.	208 Groveland Ave.	Raleigh, N. C.
Norwood, A. P.	Fr., C. E.	506 Bickett Blvd.	Henderson, N. C.
Norwood, J. E.	Jr., Ch. E.	116 Wat., 3016	Raleigh, N. C.
Nunnamaker, F. D., Jr.	Fr., M. E.	212 Welch, 3260	Durham, N. C.
Ogburn, H. K., Jr.	Fr., M. E.	311 Wat., 3047	Winston-Salem, N. C.
O'Neal, D. C.	Fr., Arch. E.	109 Bagwell, 3309	Coinjock, N. C.
Oppenheimer, R. L., Did not complete reg.			
O'Quinn, J. L.	Fr., C. E.	227 Becton, 3761	Erwin, N. C.
Ormsby, M. D.	Fr., Tex.	207 Welch, 3255	Laurinburg, N. C.
Orr, E. A.	Jr., Ch. E.	11 YMCA	Rocky Mount, N. C.
Osteen, L. L., Jr.	Fr., E. E.	229 Bagwell, 3361	Rockingham, N. C.
Otterbourg, L. W.	Fr., E. E.	219 Alex., 4148	Charlotte, N. C.
Overman, D. T.	So., C. E.	339 Alex., 4199	Stantonsburg, N. C.
Overton, M. Louise	Pratt & W.	17 Enterprise	Ahoskie, N. C.
Ozsoy, A. F.	So., Tex.	11 Enterprise	Ankara, Turkey
Page, H. M.	Fr., Agr. Ed.	223 Bagwell, 3355	Burgaw, N. C.
Palahunik, W.	Fr., Aero.	Field House	McKees Rocks, Pa.
Paldino, N.	Fr., Aero.	Field House	Brooklyn, N. Y.
Palmer, H. C.	So., E. E.	2744 Rosedale Ave.	Raleigh, N. C.
Palmer, R. D.	Fr., M. E.	21 Becton, 3822	Hamlet, N. C.
Parker, D. M., Jr.	Fr., M. E.	111 Wat., 3011	New Bern, N. C.
Parker, G. B. D.	Fr., Aero.	2137 Country Club Dr.	Raleigh, N. C.
Parker, G. W.	Sr., Ch. E.	201 Wat., 3019	Murfreesboro, N. C.
Parker, J. A.	Fr., Aero.	314 Bagwell, 3380	Lexington, N. C.
Parker, J. C.	Fr., Agr.	122 Alex., 4117	Marion, N. C.
Parker, J. W., Jr.	So., E. E.	2702 Hillsboro	Raleigh, N. C.
Parker, L. A.	Fr., Agr.	325 Becton, 3793	Ahoskie, N. C.
Parnag, J.	So., Ch. E.	308 Berry, 4328	Durham, N. C.
Parris, R. C.	Fr., E. E.	515 Fayetteville	Bryson City, N. C.
Parrish, W. C.	So., M. E.	801 Newbern Ave.	Richmond, Va.
Parrott, F. E., Jr.	Fr., E. E.	211 Wat., 3029	Creedmoor, N. C.
Pate, H. B.	Fr., E. E.	10 Enterprise	Hamlet, N. C.
Patino, H.	Sp. No Coll. Cr.	307 4th, 3133	Medellin, S. A.
Patterson, P. W.	Fr., M. E.	6 Berry, 4339	Broadway, N. C.
Patterson, T. M.	Fr., Agr.	303 Alex., 4169	Wallace, N. C.
Peacock, F. W.	Jr., Aero.	210 Wat., 3028	Asheville, N. C.
Peal, J. R.	Fr., Aero.	107 Gold. 3207	Chadbourn, N. C.
Peck, W. H.	Fr., E. E.	1820 Arlington	Raleigh, N. C.
Peedin, L. E.	Fr., C. E.	202 Wat., 3020	Princeton, N. C.
Penn, H. D.	Grad., Tex. C. & D.	9 Becton, 3811	Roanoke, Ala.
Perkins, J. T.	Fr., Agr.	216 Becton, 3750	Dobson, N. C.
Perkinson, M. M.	Fr., E. E.	221 Becton, 3755	Norlina, N. C.
Perry, B. N.	Fr., Aero.	114 Wat., 3014	Wake Forest, N. C.
Perry, H. A.	Fr., Ch. E.	Millbrook	Millbrook, N. C.
Perry, W. L.	Fr., Agr.	Millbrook	Millbrook, N. C.
Peters, R. W.	Fr., Arch.	130 Becton, 3730	Winston-Salem, N. C.
Pfaff, A. M.	Jr., E. E.	302 Bagwell, 3368	Tobaccoville, N. C.
Phillips, Kathleen	Jr., W. & D.	2717 Vanderbilt Ave.	Lumberton, N. C.

Name	Classification	School Address Dorm. Box No. or St. No.	Home Address
Phillips, T.	Fr., M. E.	332 Becton, 3800	Warsaw, N. C.
Pinnell, C. J.	Fr., Aero.	106 Bagwell, 3606	Warrenton, N. C.
Pinner, W. W.	Fr., C. E.	312 Bagwell, 3378	Seneca, S. C.
Pinnix, M. H.	So., Ch. E.	2412 Hillsboro	Oxford, N. C.
Pinto, S. S.	Fr., Tex.	220 Alex., 4149	Long Beach, N. Y.
Pittman, A. W.	Fr., E. E.	318 Bagwell, 3384	Charlotte, N. C.
Pitts, R. L., Jr.	Jr., Arch. E.	125 Woodburn Rd.	Spring Hope, N. C.
Plank, C. A.	Fr., Ch. E.	118 Bagwell, 3318	Asheville, N. C.
Politzer, K.	Jr., Tex. C. & D.	228 Alex., 4157	Rio de Janeiro, Brazil
Polk, R. L.	So., Aero.	213 Wat., 3031	Winston-Salem, N. C.
Pollock, J. H.	Sr., Agr. Ed.	310 Welch, 3270	Trenton, N. C.
Porter, B. L.	Fr., Aero.	107 Gold, 3207	Kelly, N. C.
Porter, D. R.	Fr., Aero.	114 Bagwell, 3314	Salisbury, N. C.
Porter, Sarah H.	Grad., Exper. Stat.	700 N. East	Raleigh, N. C.
Poteat, G. P., Jr.	Fr., Agr.	122 Alex., 4117	Marion, N. C.
Potter, T. H.	Fr., C. E.	312 Becton, 3780	Beaufort, N. C.
Powell, R. J.	Fr., Ch. E.	138 Alex., 4130	Kannapolis, N. C.
Pressly, Harriet B.	Grad., Agr. Ch.	526 N. Wilmington	Raleigh, N. C.
Pressly, Ruth M.	So., Tex.	2100 Hillsboro	Belmont, N. C.
Price, C. H.	So., E. E.	7 Berry, 4340	Gastonia, N. C.
Price, E. D.	Fr., M. E.	229 Bagwell, 3329	Wilson, N. C.
Price, N. A., Jr.	So., Gen. E.	234 Bagwell, 3366	Rocky Mt., N. C.
Privette, J. D.	Fr., Tex.	233 Becton, 3767	Statesville, N. C.
Proffitt, C. Y.	Jr., E. E.	310 Berry, 4330	Burnsville, N. C.
Propst, H. M.	Fr., E. E.	126 Alex., 4121	Maiden, N. C.
Prunty, R. W.	So., E. E.	133 Becton, 3733	Charlotte, N. C.
Purcell, E. L.	Fr., Gen. E.	212 Wat., 3030	Laurinburg, N. C.
Queen, A.	Fr., Agr.	314 Wat., 3050	Casar, N. C.
Quinn, F. D.	Fr., Occ. I. & G.	Field House	Montreal, Canada
Rahmes, D. W.	Fr., Tex.	122 Bagwell, 3322	Oak Lawn, Ill.
Randle, J. M.	Fr., E. E.	313 Bagwell, 3379	Mt. Holly, N. C.
Rankin, W. L., Jr.	Fr., Tex.	117 Wat., 3017	Gastonia, N. C.
Raper, E. W.	Fr., Aero.	308 Bagwell, 3374	Elizabeth City, N. C.
Rasbury, E. L., III	Fr., Geol. E.	207 Welch, 3255	Salisbury, N. C.
Rattelade, J. H., Jr.	So., Tex.	Field House	Durham, N. C.
Rawls, R. F. (Mrs.)	Grad., Occ. I. & G.	Apt. G-2, Country Cl'b Homes	Raleigh, N.C.
Ray, A. S., Jr.	Fr., E. E.	1208 College Pl.	Raleigh, N. C.
Ray, J. L.	So., Ch. E.	107 Welch, 3243	Burnsville, N. C.
Ray, T. A.	Fr., E. E.	114 Alex., 4111	Raeford, N. C.
Ray, W. T.	So., Arch. E.	102 Gold, 3202	Chapel Hill, N. C.
Reames, J. G., Jr.	Fr., Aero.	950 Harp Terrace	Raleigh, N. C.
Reavis, Mary Ruth	Fr., Occ. I. & G.	3203 Hillsboro	Raleigh, N. C.
Rector, R. E.	Jr., M. E.	115 Woodburn Rd.	Murphy, N. C.
Redick, J. A.	So., Tex.		Walstonburg, N. C.
Reid, W. G.	Fr., Gen. E.	108 Welch, 3244	Pilot Mt., N. C.
Reiter, N.	Grad., Tex. Mfg.	109 Oberlin Rd.	Lima, Peru
Reyes, Spindola, P. L.	So., Tex.	10 Enterprise	Mexico
Reynolds, D. S., Jr.	So., Aero.	2412 Hillsboro	Wilmington, N. C.
Rhodes, C. L.	Fr., E. E.	101 Becton, 3701	Mayodan, N. C.
Rhodes, H. V.	Fr., Arch. E.	328 Bagwell, 3394	Norfolk, Va.
Rhue, D. B.	Fr., E. E.	212 Welch, 3260	Newport, N. C.
Rhyne, T. P., Jr.	Fr., E. E.	111 Gold, 3211	Greensboro, N. C.
Rice, C. H.	Fr., E. E.	112 Bagwell, 3312	Goldsboro, N. C.
Rice, R. H.	Fr., C. E.	109 Becton, 3709	Jonesboro, N. C.
Richkus, C.	Fr., Tex.	Field House	Hillside, N. J.
Rider, R. V.	Fr., For.	204 Gold, 3216	Bellmore, N. Y.
Riggan, W. H., Jr.	So., Ind. E.	309 Becton, 3777	Macon, N. C.
Rights, R. J.	Fr., Ch. E.	102 Becton, 3702	Winston-Salem, N. C.

Name	*Classification*	*School Address Dorm. Box No. or St. No.*	*Home Address*
Rigsbee, E. L.	Fr., Agr.	Rt. 4, Box 395, Durham	Durham, N. C.
Riley, W. S., Jr.	Fr., E. E.	20 Ferndell Lane	Raleigh, N. C.
Rionda (See de la Rionda, G. J.)			
Ritchie, J. F.	So., E. E.	106 Wat., 3006	Richfield, N. C.
Rivera, J. L.	Fr., Tex.	203 Bagwell, 3335	Mexico
Rives, H. G.	Fr., Arch.	20 Becton, 3821	Statesville, N. C.
Roach, E. R.	Fr., Occ. I. & G.	3103 Eton Rd.	Memphis, Tenn.
Roberson, J. L.	So., Ch. E.	303 Berry, 4323	Parmele, N. C.
Roberts, C. P., Jr.	Fr., Tex.	202 Alex., 4134	Shelby, N. C.
Roberts, D. B.	Fr., C. E.	111 Welch, 3247	Cameron, N. C.
Roberts, E. H., Jr.	So., Gen. E.	705 W. North	Raleigh, N. C.
Roberts, R. J.	Fr., E. E.	208 Becton, 3742	Reidsville, N. C.
Robeson, R. H.	Fr., E. E.	117 Bagwell, 3317	Hickory, N. C.
Robinson, A. C., Jr.	So., Arch. E.	316 Becton, 3784	Pageland, S. C.
Robinson, J. M.	So., Ch. E.	106 Bagwell, 4306	Fort Bragg, N. C.
Roddick, J. A., Jr.	Fr., M. E.	312 Wat., 3048	Winston-Salem, N. C.
Roe, W. C.	So., Ind. E.	203 Chamberlain	Asheville, N. C.
Roebuck, J. W.	So., Aero.	307 Welch, 3267	Stokes, N. C.
Rogers, F. L.	Fr., E. E.	308 Gold, 3232	Clyde, N. C.
Rogers, P. H., Jr.	Fr., Agr. E.	106 Horne	Hartsville, S. C.
Rohrabaugh, H. W.	Fr., E. E.	332 Becton, 3800	Gibson, N. C.
Rollins, W. H.	So., Tex.	110 Syme, 3510	Spindale, N. C.
Roper, L. R.	Fr., Agr.	23 Syme, 3619	Franklin, N. C.
Rose, H. L.	So., C. E.	1911 Bldg., 5241	Kenly, N. C.
Rose, J. C.	Fr., Aero.	213 Bagwell, 3345	Winston-Salem, N. C.
Rose, L. W.	So., M. E.	117 Alex., 4114	Durham, N. C.
Rose, R. W.	So., ——	618 W. Jones	Philadelphia, Pa.
Ross, C. T.	Fr., M. E.	329 Becton, 3797	Goldville, S. C.
Ross, J. N.	Fr., C. E.	122 Becton, 3722	Monroe, N. C.
Rowe, A. E.	So., Cer. E.	216 Becton, 3750	Nebo, N. C.
Rowe, A. F., Jr.	Fr., Ch. E.	223 Bagwell, 3355	Ayden, N. C.
Runyans, R. L.	Fr., Arch. E.	317 Wat., 3053	Shelby, N. C.
Sadler, J. D.	Fr., E. E.	213 Bagwell, 3345	Tarboro, N. C.
Saenz, G. B.	Fr., Ind. E.	105 Wat., 3005	Medellin, Colombia
Safrit, S. W.	Fr., C. E.	318 Bagwell, 3384	Troy, N. C.
Saltzman, C. M.	So., Tex.	205 Ashe Ave.	Brooklyn, N. Y.
Salzman, F.	Fr., For.	311 Gold, 3235	Brooklyn, N. Y.
Sample, M. B.	Fr., M. E.	206 Becton, 3740	Elizabeth City, N. C.
Sanders, H. K., Jr.	Sr., Agr. E.	311 Welch, 3271	Roxboro, N. C.
Sasser, L. R.	Fr., Agr.	106 Welch, 3242	Goldsboro, N. C.
Satterfield, D. G.	So., Arch. E.	123 Becton, 3723	Clayton, N. C.
Sauchelli, J. J.	Fr., M. E.	Did not complete reg.	Boonton, N. J.
Saunders, L. R.	Fr., For.	Field House	Quincy, W. Va.
Sawrey, H. V.	Fr., For.	115 Wat., 3015	Smithfield, N. C.
Scarborough, W. S.	Sen., Ind. A. Ed.	330 Bagwell, 3396	Grifton, N. C.
Scarpa, J. J.	Fr., Tex.	Field House	Ansonia, Conn.
Schenck, G. H., Jr.	Fr., M. E.	239 Alex., 4165	Albemarle, N. C.
Schrum, E. P.	Fr., E. E.	303 4th, 3129	Newton, N. C.
Scott, C. C.	Grad., Ru. Soc.	1310 Hillsboro	Raleigh, N. C.
Scott, J. B.	Fr., C. E.	219 Bagwell, 3351	Greensboro, N. C.
Seay, F. S.	Jr., C. E.	2514 Clark Ave.	Reidsville, N. C.
Selby, R. C.	Fr., Cer. E.	222 Alex., 4151	Dudley, N. C.
Sellers, E. G.	Jr., M. E.	311 Alex., 4174	Charlotte, N. C.
Seltzer, D. M.	Fr., Tex.	302 Alex., 4168	Concord, N. C.
Senter, B. R.	Fr., Agr. Ed.	208 Welch, 3256	Fuquay Sprgs., N. C.
Senter, M. S.	Fr., M. E.	208 Welch, 3256	Chalybeate Sprgs., N. C.
Sessions, R. E.	Fr., Agr.	331 Bagwell, 3397	Whiteville, N. C.
Sewell, D. W.	So., Cer. E.	14 Becton, 3816	Greensboro, N. C.
Shannon, Lucy E.	Sp. No Coll. Cr.	Ft. Bragg	Tampa, Fla.

Name	*Classification*	*School Address Dorm. Box No. or St. No.*	*Home Address*
Sharp, J. B., Jr.	Grad., For.	116 Syme, 3516	Maynardville, Tenn.
Sharpe, J. H.	So., Agr.	316 Wat., 3052	Burlington, N. C.
Sharpe, J. J.	Jr., M. E.	316 Syme, 3580	Spencer, N. C.
Shaw, W. C.	Grad., Agron. (F.C.)	109 Becton, 3709	Roanoke Rapids, N. C.
Sheets, W. T.	Fr., Agr.	314 Bagwell, 3380	Lexington, N. C.
Sheldon, J. R.	Fr., E. E.	105 Becton, 3705	Camp Forrest, Tenn.
Shelton, W. W., Jr.	Fr., Aero.	219 Bagwell, 3351	Wilson, N. C.
Sherrill, K. A., Jr.	Fr., C. E.	305 Becton, 3773	Mooresville, N. C.
Sherrill, R. H., Jr.	Fr., Ch. E.	106 Gold, 3206	Statesville, N. C.
Shields, C. R.	Fr., Arch.	317 Becton, 3785	Scotland Neck, N. C.
Sholin, W. A.	So., M. E.	203 Chamberlain	Raleigh, N. C.
Sigman, J. L.	Fr., C. E.	134 Bagwell, 3402	Winston-Salem, N. C.
Sigmon, I. A.	So., Arch. E.	307 Berry, 4327	Reidsville, N. C.
Siler, Robert Lee	Fr., C. E.	308 Becton, 3776	Apex, N. C.
Silverstein, J.	Fr., E. E.	220 Bagwell, 3352	Winston-Salem, N. C.
Simpson, J. A.	Fr., M. E.	217 Bagwell, 3349	Marshville, N. C.
Simpson, Jeannette W.	Fr., Ch. E.	2223 Circle	Raleigh, N. C.
Sims, J. D.	Sr., Agr. Ed.	Did not complete reg.	Mt. Gilead, N. C.
Sims, J. G.	Jr., Ch. E.	202 Bagwell, 3334	Lincolnton, Ga.
Sirota, B. H.	Fr., Tex.	112 Becton, 3712	New York, N. Y.
Slack, H. C.	Fr., M. E.	210 Gold, 3222	Pinetown, N. C.
Sledge, G. W.	Fr., Agr. Ed.	208 Welch, 3256	Nashville, N. C.
Smart, J. F.	So., Tex.	1720 Hillsboro	Monroe, N. C.
Smith, A. E.	Fr., C. E.	19 Becton, 3820	Granite Falls, N. C.
Smith, A. W.	Fr., Agr.	106 Welch, 3242	Goldsboro, N. C.
Smith, B. R.	Fr., Agr.	305 Welch, 3265	Grifton, N. C.
Smith, C. A.	So., M. E.	Box 45, Cary	Cary, N. C.
Smith, D. H.	Fr., Agr.	105 Bagwell, 3305	Ayden, N. C.
Smith, D. T.	So., Agr.	9 Berry, 4342	Pilot Mt., N. C.
Smith, Edwin Brooks	Fr., C. E.	239 Alex., 4165	Wilmington, N. C.
Smith, G. E., Jr.	Fr., C. E.	10 Becton, 3810	Cornelius, N. C.
Smith, G. L., Jr.	So., Aero.	316 Wat., 3052	Gibson, N. C.
Smith, G. O.	Fr., C. E.	210 Bagwell, 3342	Kannapolis, N. C.
Smith, G. W.	So., For.	414½ Chamberlain	Raleigh, N. C.
Smith, H. H.	So., Tex.	237 Alex., 4163	Spindale, N. C.
Smith, H. L.	Fr., Agr.	138 Alex., 4130	Bolivia, N. C.
Smith, I. K.	Grad., Agron. (Soils)	207 4th, 3125	Presque Isle, Maine
Smith, J.	Fr., M. E.	222 Alex., 4151	Dudley, N. C.
Smith, J. B.	Fr., Agr. E.	202 Welch, 3250	Oakboro, N. C.
Smith, J. Maxine	Grad., Agr. Ch.	Box 2563	White Oak, N. C.
Smith, L. J., Jr.	So., For.	203 Gold, 3215	Cullowhee, N. C.
Smith, W. E.	Fr., E. E.	237 Alex., 4163	Spindale, N. C.
Smith, Walter Graham	Fr., Agr.	221 Bagwell, 3353	St. Pauls, N. C.
Smith, Wm. Gilbert	Fr., E. E.	305 Wat., 3041	Rutherfordton, N. C.
Smithson, C. S., Jr.	Fr., C. E.	308 Wat., 3044	Creswell, N. C.
Smythers, W. A.	Fr., Agr.	Did not complete reg.	Woodlawn, Va.
Snavely, H. C.	Sr., Aero.	18½ Horne	Winston-Salem, N. C.
Snider, H. J.	Fr., Agr. Ed.	104 Gold, 3204	Denton, N. C.
Snider, H. L.	So., C. E.	312 Berry, 4332	Denton, N. C.
Snow, M. B.	Fr., Aero.	305 Bagwell, 3371	Elkin, N. C.
Snow, P. L.	Fr., E. E.	102 Horne, Apt. 9	Raleigh, N. C.
Snyder, F. C.	Sr., Arch. E.	2513 Clark Ave.	Winston-Salem, N. C.
Sofley, C. W.	Fr., Agr.	206 Becton, 3740	Cana, N. C.
Soles, J. F.	Fr., E. E.	226 Becton, 3760	Fair Bluff, N. C.
Sontag, R. M.	Fr., Tex.	109 Oberlin	New York, N. Y.
Sorrell, W. A.	Fr., C. E.	202 Welch, 3250	Chapel Hill, N. C.
Sorrels, C. C.	Fr., Aero.	306 Becton, 3774	Forest City, N. C.
Spainhour, D. N.	Fr., E. E.	110 Bagwell, 3310	Lenoir, N. C.
Sparks, J. H.	Fr., Tex.	129 Alex., 4124	Ruth, N. C.
Sparrow, T. B.	Sr., Tex. Mfg.	211 Gold, 3223	Greensboro, N. C.

Name	*Classification*	*School Address Dorm. Box No. or St. No.*	*Home Address*
Speas, Mamie L.	Grad., Agr. Ch.	327 W. Morgan	Raleigh, N. C.
Sprinkle, O. V.	Fr., Aero.	2008 Hillsboro	Winston-Salem, N. C.
Spruiell, S. G.	Jr., For.	330 Bagwell, 3396	Leeds, Ala.
Spurling, W. F.	Fr., Agr. E.	131 Alex., 4126	Lawndale, N. C.
Stadler, M. D.	Fr., E. E.	301 Becton, 3769	Burlington, N. C.
Staley, C. R., Jr.	Fr., Tex.	125 Alex., 4120	Alamance, N. C.
Stallings, F. C., Jr.	So., Agron.	305 Berry, 4325	Jamesville, N. C.
Stamey, H. M.	Grad., An. Prod.	K-1-A Cameron Ct. Apts.	Raleigh, N. C.
Stamps, Mack, III	Fr., Aero.	214 Bagwell, 3346	Durham, N. C.
Stanfield, D. W.	Fr., Aero.	Box 67, Cary	Cary, N. C.
Stanley, A. G.	Fr., M. E.	230 Bagwell, 3362	Whiteville, N. C.
Stanton, W. M.	So., C. E.	Field House	Rowland, N. C.
Starling, D. G.	Jr., Agr. Ed.	301 Welch, 3261	Autryville, N. C.
Starling, W. N.	Fr., C. E.	101 Wat., 3001	Pine Level, N. C.
Steed, H. D.	Fr., Tex.	2804 Hillsboro	Asheboro, N. C.
Steinmetz, C. J.	Fr., C. E.	Field House	Wheeling, W. Va.
Stevens, G. B.	Sr., E. E.	125 Bagwell, 5094	Mooresville, N. C.
Stevenson, W. J., Jr.	So., E. E.	7½ Maiden Lane	Raleigh, N. C.
Stewart, C. M.	Fr., Ch. E.	212 Becton, 3746	Henderson, N. C.
Stewart, D. E.	So., Tex.	215 Wat., 3330	Washington, N. C.
Stewart, D. W.	Fr., Aero.	312 Welch, 3272	Durham, N. C.
Stewart, P. A.	Fr., E. E.	19 E. Lenoir	Trade, Tenn.
Stewart, R. R.	Fr., Agr.	309 Berry, 4329	Broadway, N. C.
Stinson, A. W.	Fr., Agr.	124 Bagwell, 3324	Monroe, N. C.
Stinson, J. B.	Jr., An. Prod.	211 Bagwell, 3343	Boonville, N. C.
Stocks, E. L.	Fr., E. E.	216 Bagwell, 3348	Ayden, N. C.
Stokes, P. L., Jr.	Fr., C. E.	112 Alex., 4109	Wilson, N. C.
Stone, Barbara E.	Jr., Occ. I. & G.	A-8 Wilmont Apts.	Raleigh, N. C.
Storey, C. V.	Fr., E. E.	212 Gold, 3224	Dunn, N. C.
Straus, J. A.	Jr., Tex. Mgt.	2902 Everett Ave.	New York, N. Y.
Strole, J. P.	So., Agr.	18 Horne, Apt. 3	Chadbourn, N. C.
Stroud, J. J.	Sr., C. E.	125 Woodburn Rd.	Southern Pines, N. C.
Stroup, J. B.	Fr., Agr.	217 Bagwell, 3349	Newell, N. C.
Stubbs, E. M.	So., Agr. Ed.	2212 Hope	Henderson, N. C.
Styron, G. F., Jr.	Fr., C. E.	306 Becton, 3774	Goldsboro, N. C.
Sugg, E. W.	Fr., Agr.	310 Gold, 3234	Snow Hill, N. C.
Suggs, C. W.	Fr., M. E.	307 Bagwell, 3373	Whiteville, N. C.
Sullivan, D. F.	Fr., E. E.	315 Bagwell, 3381	Goldsboro, N. C.
Sullivan, E. T.	Sr., For.	315 Wat., 3051	Douglaston, N. Y.
Sumar, F. P.	Fr., Tex.	10 Enterprise	Santiago, Chile
Sumner, W. H., Jr.	So., E. E.	134 Becton, 3734	Mt. Airy, N. C.
Sumrell, B. B.	Fr., Agr.	105 Bagwell, 3305	Ayden, N. C.
Sutton, R. J.	Fr., Agr.	101 4th, 3111	Goldsboro, N. C.
Swain, Virginia S.	Grad., Rur. Soc.	2268 Circle Dr.	Raleigh, N. C.
Swanson, H. L., Jr.	Fr., C. E.	214 Wat., 3032	Wendell, N. C.
Swartz, D. R.	So., M. E.	103 Chamberlain	Richmond, Va.
Swayngim, D. S.	Fr., Aero.	308 Gold, 3232	Waynesville, N. C.
Swindell, H. C.	So., Tex.	309 Welch, 3269	Edenton, N. C.
Swindell, J. E.	Fr., Ch. E.	20 Becton, 3821	Bath, N. C.
Swing, R. H.	Fr., C. E.	323 Becton, 3791	Asheboro, N. C.
Syler, Betty N.	So., Tex.	111 Brooks Ave.	Ft. Worth, Tex.
Tagert, R. H., Jr.	Fr., M. E.	302 Wat., 3038	Greensboro, N. C.
Tankard, T. E., Jr.	Fr., Ch. E.	213 Becton, 3747	Bath, N. C.
Tart, J. L.	So., Agr.	203 Gold, 3215	Four Oaks, N. C.
Tart, R. W.	Fr., Ag. Ed.	316 Bagwell, 3383	Newton Grove, N. C.
Tate, J. T.	Fr., E. E.	22 Becton, 3823	Greensboro, N. C.
Taylor, F. E.	Fr., M. E.	212 W. Morgan	Roswell, N. M.
Taylor, J. C., Jr.	So., Agr.	Greenhouse, 5254	Durham, N. C.
Taylor, P. W.	Jr., Agr. Ed.	201 Gold, 3213	Enfield, N. C.

Name	Classification	School Address Dorm. Box No. or St. No.	Home Address
Taylor, R. C.	Fr., E. E.	106 Wat., 3049	Robbinsville, N. C.
Taylor, R. L.	Fr., Agr.	313 Wat., 3049	Rutherfordton, N. C.
Teague, R. J.	So., C. E.	103 Chamberlain	Siler City, N. C.
Teer, C. L.	Fr., Agr.	103 Bagwell, 3303	Chapel Hill, N. C.
Tew, A. P.	Sp. No Coll. Cr.	302 Berry, 4322	Fayetteville, N. C.
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Thames, F. C., Jr.	Fr., Agr. E.	326 Becton, 3794	Indian Head, Md.
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Thomas, W. C.	Sr., Ch. E.	303 Wat., 3039	Weldon, N. C.
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Thomason, R. F.	Fr., E. E.	26 Becton, 3826	Lexington, N. C.
Thompson, A. N.	Fr., M. E.	304 Wat., 3040	Statesville, N. C.
Thompson, C., Jr.	Fr., Tex.	12 Horne	Cameron, N. C.
Thompson, F. E.	Fr., Aero.	205 Welch, 3253	Salisbury, N. C.
Thompson, G. C.	Fr., M. E.	314 Wat., 3050	Winston-Salem, N. C.
Thompson, H. W., Jr.	Fr., E. E.	205 Welch, 3253	Salisbury, N. C.
Thompson, J. D.	Fr., Agr. Ed.	15 Maiden Lane	Whittier, N. C.
Thompson, L. F., Jr.	So., C. E.	133 Becton, 3733	New Bern, N. C.
Thompson, M. J. (Mrs.)	Fr., Occ. I. & G.	2305 Beechridge Rd.	Morehead City, N. C.
Thompson, P. M., Jr.	Fr., Agr. E.	318 Wat., 3054	Goldsboro, N. C.
Thompson, S. R., Jr.	Fr., For.	111 Gold, 3211	Charlotte, N. C.
Thompson, Z. F.	So., Arch. E.	1208 Filmore	High Point, N. C.
Thornton, W. K.	So., Tex.	224 Bagwell, 3356	West Point, Va.
Tice, W. W.	Fr., Tex.	Field House	Wadesboro, N. C.
Tillett, W. F.	Fr., M. E.	24 Becton, 3825	Timberlake, N. C.
Tilley, J. P.	Fr., Agr.	118 Becton, 3718	Mt. Airy, N. C.
Torfilli, I. O.	Fr., Tex.	312 Polk St.	Istanbul, Turkey
Tripp, C. C.	Fr., E. E.	1905 Park Dr.	Raleigh, N. C.
Truitt, J. H.	So., M. E.	12 Horne	Greensboro, N. C.
Tuck, W. D.	Fr., Agr. Ed.	131 Bagwell, 3331	Efland, N. C.
Tucker, H. R.	Fr., E. E.	226 Becton, 3760	Fair Bluff, N. C.
Tull, I. N., Jr.	Jr., E. E.	2412 Hillsboro, Box 5042,	Shaker Hgts., O.
Turbyfill, G. L.	Fr., Tex.	Field House	Maiden, N. C.
Turner, H. F.	Fr., Occ. I. & G.	Field House	Rocky Mt., N. C.
Turner, J. A.	So., M. E.	112 Cox Ave., Apt. 3	Raleigh, N. C.
Turner, J. F.	Fr., Agr.	312 Welch, 3272	Jackson, N. C.
Tuttle, H. P.	Sp. No Coll. Cr.	129 Alex., 4124	Rocky Mt., N. C.
Twyford, J. W.	Fr., E. E.	204 Welch, 3252	Dunn, N. C.
Upchurch, G. A.	Fr., Aero.	1 Becton, 3803	Morrisville, N. C.
Upchurch, R. P.	Fr., Agr.	140 Alex., 4132	Raleigh, N. C.
Urdaneta, A. G.	So., Tex.	123 Bagwell, 3323	Colombia, S. A.
Vail, Enola A.	So., Aero.	515 Gardner St.	Pikeville, N. C.
Valderrama, L. H.	So., Occ. I. & G.	307 4th, 3133	Lima, Peru
Valencia, S.	So., Tex.	201 Bagwell, 3333	Mexico City, Mex.
Vaughn, J. M.	Jr., Arch. E.	316 Becton, 3784	Carthage, N. C.
Vause, S. P.	Fr., E. E.	226 Alex., 4155	Leaksville, N. C.
Waddell, J. B.	Fr., Agr.	228 Becton, 3762	Fair Bluff, N. C.
Waddell, S. W.	Fr., Agr.	228 Becton, 3762	Fair Bluff, N. C.
Wade, Virginia	Fr., Occ. I. & G.	2310 Hillsboro	Raleigh, N. C.
Wadsworth, J. W., Jr.	Fr., For.	3 Becton, 3805	Charlotte, N. C.
Wagner, K. Elizabeth	So., Ch. E.	2226 Hillsboro	Lumberton, N. C.
Waldo, R. R.	Fr., Ch. E.	2201 Byrd	Hope Mills, N. C.
Waldrop, W. W.	Fr., For.	216 Bagwell, 3348	Spartanburg, S. C.
Walker, C. H., Jr.	Jr., E. E.	109 Wat., 3009	Raleigh, N. C.
Walker, I. J.	So., Ind. E.	529 New Bern Ave.	Raleigh, N. C.
Walker, J. B., Jr.	So., E. E.	Field House	Marion, N. C.
Wallace, P. N.	So., Tex.	312 Chamberlain	Franklinville, N. C.

Name	*Classification*	*School Address Dorm. Box No. or St. No.*	*Home Address*
Waller, H. A., Jr.	So., M. E.	304 Wat., 3040	Winston-Salem, N. C.
Wallner, S., Jr.	Jr., Tex. Mgt.	12 Horne	Jacksonville, Tex.
Walston, D. E.	Fr., Aero.	Field House	Farmville, N. C.
Walton, C. J.	Fr., M. E.	313 E. Jones	Faison, N. C.
Ward, Wilbur Shepherd	Fr., E. E.	119 Bagwell, 3319	Swannanoa, N. C.
Warren, A. A.	Fr., Agr. Ed.	127 Bagwell, 3327	Roseboro, N. C.
Warren, A. E.	Fr., M. E.	4 Becton, 3806	Richlands, N. C.
Warren, H. B.	Fr., Agr. Ed.	213 Wat., 3049	Roseboro, N. C.
Warren, R. D.	Fr., Agr. Ed.	126 Bagwell, 3326	Roseboro, N. C.
Warren, R. M.	So., Aero.	313 Becton, 3781	Greensboro, N. C.
Wasilewski, A. L.	Fr., Arch. E.	Field House	Frackville, Penn.
Waters, O. C., Jr.	Fr., Agr. Ed.	22 Becton, 3823	Ellenboro, N. C.
Watkins, G. H.	Sr., Tex. Mgt.	1014 Canterbury Rd.	Raleigh, N. C.
Watkins, G. S.	Jr., E. E.	6 Enterprise	Charlotte, N. C.
Watkins, M. P.	Sen., Tex. Mfg.	331 Becton, 3799	Norwood, N. C.
Watkins, P. S.	Did not complete reg.		
Watson, C. A., Jr.	Fr., Gen. E.	115 Bagwell, 3315	Moncure, N. C.
Watson, G. N.	Did not complete reg.		
Watson, O. G.	Fr., Gen. E.	234 Becton, 3768	Badin, N. C.
Watts, D. T.	Fr., Ind. E.	125 Becton, 3725	Greensboro, N. C.
Watts, J. T., Jr.	Fr., Ind. E.	125 Becton, 3725	Greensboro, N. C.
Weatherly, E. R.	Jr., Ch. E.	2518 Clark Ave.	Columbia, N. C.
Weathers, Lorna M.	Fr., Aero.	123 N. Person	Knightdale, N. C.
Webber, J. R.	Fr., Occ. I. & G.	Field House	Montreal, Canada
Wehbie, W. M.	Fr., Tex.	425 N. Bloodworth	Raleigh, N. C.
Weiss, H. S.	So., Agr.	109 Oberlin Rd.	Monticello, N. Y.
Welch, R. A.	Fr., Aero.	120 Woodburn Rd.	Roanoke Rapids, N. C.
Wells, H. M., Jr.	Fr., Agr.	206 Gold, 3218	Chinquapin, N. C.
Wells, J. E.	Fr., Aero.	310 Becton, 3778	Wallace, N. C.
Wells, R. C.	So., Agr.	306 Welch, 3266	Leicester, N. C.
Wentz, D. A., Jr.	Fr., M. E.	121 Bagwell, 3321	Charlotte, N. C.
West, G. Rebecca	Grad., Entom.	2210 Fairview Rd.	Dover, N. C.
West, J. J.	So., Tex.	111 Bagwell, 3311	Charlotte, N. C.
Weyne, J. M.	Sr., M. E.	6 Enterprise	Yauco, P. R.
Wheless, R. E.	Fr., Agr. Ed.	306 Gold, 3230	Louisburg, N. C.
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White, W. B.	Fr., Arch. E.	230 Becton, 3764	Henderson, N. C.
White, W. H., Jr.	Fr., For.	202 Wat., 3020	Louisburg, N. C.
White, W. J.	So., Arch. E.	Trailer	Durham, N. C.
Whitney, G. E.	So., Cer. E.	304 4th, 5073 State Col. Sta.	Atlanta, Ga.
Wiggins, A. T.	Fr., Agr. Ch.	126 Bagwell, 3326	Wake Forest, N. C.
Wilber, S. C., Jr.	Jr., Arch. E.	125 Woodburn Rd.	Charlotte, N. C.
Wilkerson, J. W.	Fr., Agr.	2 Becton, 3804	Sims, N. C.
Willard, R. V.	Fr., Agr. Ed.	228 Bagwell, 3360	High Point, N. C.
Willcox, G. W., Jr.	Fr., Aero.	118 Wat., 3018	Carthage, N. C.
Williams, A., Jr.	Fr., Agr.	113 Bagwell, 3313	Winterville, N. C.
Williams, D. B.	So., E. E.	303 Berry, 4323	Godwin, N. C.
Williams, F. B.	Fr., E. E.	207 Gold, 3219	Norlina, N. C.
Williams, H. N.	Fr., Agr.	215 Bagwell, 3347	Whiteville, N. C.
Williams, John Caswell, Jr.	Fr., Agr.	231 Becton, 3765	Rocky Mount, N. C.
Williams, J. E.	So., Ch. E.	131 Becton, 3731	Wilmington, N. C.
Williams, J. H.	Sr., Tex. Mfg.	12 Horne	Gastonia, N. C.
Williams, W. M.	So., Arch.	1720 Hillsboro	Fort Myers, Fla.
Williamson, E. M.	Fr., Agr. E.	334 Bagwell, 3400	Mont Clare, S. C.
Williamson, L. A., Jr.	Fr., Aero.	304 Welch, 3264	Ahoskie, N. C.

Name	*Classification*	*School Address Dorm. Box No. or St. No.*	*Home Address*
Willis, T. L.	Fr., M. E.	120 Becton, 3720	New Bern, N. C.
Wilson, A. W.	So., Agr. Ed.	2412 Hillsboro	Hillsboro, N. C.
Wilson, B. D., Jr.	So., Tex.	2408 Fairview Rd.	Raleigh, N. C.
Wilson, B. E.	So., C. E.	211 Becton, 3745	Zionville, N. C.
Wilson, Frances V.	So., Cer. E.	2232 Hillsboro	Lakewood, N. J.
Wilson, G. R.	Fr., Agr. Ed.	313 Wat., 3049	Dunn, N. C.
Wilson, G. T.	Fr., M. E.	321 Becton, 3789	Shelby, N. C.
Wilson, Jas. Alvin	Jr., Agron.	201 Welch, 3249	Scotland Neck, N. C.
Wilson, Jos. Alvin, Jr.	Fr., E. E.	323 Bagwell, 3389	Columbus, N. C.
Wilson, J. D.	So., Agr. Ed.	208 Bagwell, 3340	Littleton, N. C.
Wilson, T. N.	Fr., Aero.	315 Becton, 3783	Marshallberg, N. C.
Wimbish, C. O.	So., Ch. E.	16 Maiden Lane	Stoneville, N. C.
Winchester, D. R.	Sr., Ch. E.	108 Wat., 3008	Monroe, N. C.
Winecoff, D. B.	Fr., Arch.	306 Wat., 3042	Lexington, N. C.
Winkler, W. G.	Fr., C. E.	126 Becton, 3726	Boone, N. C.
Winslow, H. B.	Fr., Agr.	103 Berry, 4303	Robersonville, N. C.
Winslow, R. R.	Fr., E. E.	209 Alex., 4139	Hobbsville, N. C.
Woo, J. T.	Jr., Tex. Mfg.	201 4th, 3119	San Francisco, Cal.
Wood, D. B.	So., Agr.	308 Becton, 3776	Spring Hope, N. C.
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Wood, W. H.	So., Tex.	312 Bagwell, 3378	Washington, N. C.
Wood, W. S.	So., Ch. E.	124 Becton, 3724	Fayetteville, N. C.
Woodard, C. H.	Fr., Gen. E.	11 Becton, 3813	Spring Hope, N. C.
Woodard, D. P., Jr.	So., E. E.	50, 1911	Laurel Hill, N. C.
Woodhouse, M. G.	Fr., M. E.	5 Becton, 3807	Norfolk, Va.
Woolard, J. L.	So., M. E.	110 Bagwell, 3310	Washington, N. C.
Wooten, R. E.	Sr., M. E.	311 W. Park Dr.	Raleigh, N. C.
Wooten, S. A.	Fr., Agr.	308 Berry, 4328	Princeton, N. C.
Wooten, W. A.	Fr., Agr. E.	308 Berry, 4328	Princeton, N. C.
Worst, R. F.	Fr., Ind. A. Ed.	Field House	Brooklyn, N. Y.
Wroton, H. C.	Sr., Aero. E.	204 Wat., 3022	Norfolk, Va.
Wyatt, W. F., Jr.	Fr., Tex.	106 Becton, 3706	Sanford, N. C.
Wyckoff, R. A., Jr.	So., Tex.	103 Becton, 3703	Stanley, N. C.
Yachan, E. D.	So., Tex.	204 4th, 3122	Santiago, Chile
Yagolnitzer, P.	Sr., Tex. Mfg.	117 Alex., 4114	Bronx, N. Y.
Yates, E. C., Jr.	So., Aero.	307 Calvin Rd.	Raleigh, N. C.
Yelverton, R. L., Jr.	So., M. E.	118 Hillcrest Rd.	Raleigh, N. C.
Yelverton, R. M.	Fr., C. E.	118 Hillcrest Rd.	Raleigh, N. C.
Yoe, T. H., Jr.	Fr., Arch. E.	218 Becton, 3752	Baltimore, Md.
Young, C. M.	Fr., Ch. E.	101 4th, 3111	Bakersville, N. C.
Young, Elizabeth H.	Fr., Arch.	134 Woodburn Rd.	Raleigh, N. C.
Young, J. W.	So., E. E.	50, 1911	Princeton, N. C.
Yount, C. E.	Fr., C. E.	1720 Hillsboro	Reidsville, N. C.
Yow, R. C.	Fr., C. E.	301 Becton, 3769	Asheboro, N. C.
Zavidny, W. H.	Fr., M. E.	Field House	McKees Rocks, Penn.

ADDENDA TO
FACULTY DIRECTORY

Ext.

[1]Anderson, Roy N. Director Student Personnel. 107 Peele 223
Residence: 224 Woodburn Road. Tel. 6969.
[c]Bartlett, Grady W. Asst. Prof. of Physics. 108 Daniels 229
Residence: 317 Calvin Road.
[c]Bennett, Roy R. Specialist Agronomy Extension. 204 Ricks . . . 294
Residence: 2819 Kilgore St.
[2]Bogdan, John F.—Applied Research Technologist and Prof. of Tex. Tex. 103 289
Residence:
Boswell, Elmo B. Registration Dept. Holladay Hall 219
Residence: 1507 Hillsboro St. Tel. 2-2395.
[1]Brown, T. C. Assoc. Prof., M. E. Dept. 106 Page 246
Residence: 910 Canterbury Road. Tel. 2 3277.
Chalfant, J. W. Assoc. Prof., For. Dept. 304-1911 270
Residence: 1218 Glenwood Ave. Tel. 8898.
Cloyd, Ed. L., Jr. Director Student Housing. 107 Berry 328
Residence: 2224 Hillsboro St. Tel. 5983.
[c]Cowan, Mrs. Joy C. Asst. in Catalog Dept. Library 259
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[2]Davis, Philip H. Asst. Prof. Dept. of English. 104 Pullen . . . 237
Residence:
[c]Francis, Mrs. Jane W. Steno., Dean of Students. 108 Holladay 215
Residence: 1417 Park Drive.
[c]Greenwood. Dorothy P. Instr., English. 3 Pullen 237
Residence: 2620 Canterbury Road. Tel. 2-3829.
[1]Harkema, Reinard Assoc. Prof., Zool. 204 Zool 261
Residence: 1720 Chester Road. Tel. 2-1857.
Henderson, Shirley Mahone Registrar's Office. 207 Holladay Hall 219
Residence: 2512½ Clark Avenue. Tel. 2-0738.
Hull, William D. English. 4 Pullen 237
Residence: 2 Logan Court. Tel. 2-2673.
[3]Keller, Anna Pence Registrar's Office. 206 Holladay 219
Residence: 2222 Circle Drive. Tel. 3-2967.
[2]Kriegel, William Wurth Assoc. Prof., Ceramic Engr. Ceramic Office 249
Residence: 1916 Sunset Drive.
[1]Lewis, Malcolm Instr. (temp.) Mech. Engr. Dept. 103 Page 247
Residence:
[m]McGehee, William Prof. and Head Dept. Psychology—T 112 . . . 286
Residence: 2314 Lake Drive. Tel. 2 0797.
[w]Martin, Thomas J., Jr. Instr. (temp.) Mech. Engr. Dept. 108 Page 247
Residence:
Matthews, Louise Registration Office. 205 Holladay 219
Residence: 2509 Kenmore Drive. Tel. 6964.
[c]Moffie, Dannie J.—Assoc. Prof. Psychology Dept. T-124 286
Residence: 2610 Van Dyke.
[n]Nash, T. L. Instr. M. E. Dept. 103 Page 246
Residence: 308 Hillcrest. Tel. 2-0459.
[2]Nickell, John Paul Instr. of English. 6 Pullen 237
Residence: 2406 Fairview Road. Tel. 8109.
[2]Pierce, W. H. Asst. Ag. Econ. 209 Patterson 308
Residence: 117 Park Avenue. Tel. 2 3820.
[2]Porter, Jos. A., Jr. Asst. Prof. Weav. and Design, Tex. Sch. 201 Tex. 273
Residence:

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	Ext.
*Rautenstrauch, Ruth—Vocational Appraiser, Psychology Dept. 124 Tompkins	286
Residence: 3002 Lewis Farm Road.	
*Rawls, Horace D. Psychometrist, Psychology Dept. T-124	286
Residence: Apt. G 2, Country Club Homes. Tel. 2-0616.	
*Ridout, W. J., Jr. Agr. Engr. Ext. Spec.	292
Residence: Box 5342, State College Station.	
Scherm, Helen E. Secretary Poultry Extension. 209 Ricks	321
Residence: 208 Groveland Ave. Tel. 8263.	
Schmidt, Robert Assoc. Prof., Horticulture. 306 Polk	318
Residence: 516 Gardner St. Tel. 4235.	
*Sherratt, William A. Instr. (temp.) Mech. Eng. Dept. 103 Page	247
Residence: Route 1, Garner, N. C.	
*Winstead, Mary M. Steno.-Clerk, Psychology Dept. 123 Tompkins	286
Residence: 217 Ashe Avenue. Tel. 2-2545.	

* Married.

ADDENDA TO
STUDENT DIRECTORY

Name	*Classification*	*School Address* *Dorm. Box No. or St. No.*	*Home Address*
Acree, E. J.	Fr., C. E.	107 Bagwell, 3307	Lewiston, N. C.
Adair, G. H.	So., Ind. E.	107 Becton, 3707	Beaufort, N. C.
Adams, R. C.	Jun., Ag. Ed.	2830 Barmettler	Raleigh, N. C.
Adams, V. D.	So., For.	204 Alex., 4136	Bethesda, Md.
Adams, W. G.	Fr., E. E.	207 Wat., 3025	Four Oaks, N. C.
Adams, W. J.	Sen., Ch. E.	114 Alex., 4111	Asheville, N. C.
Agrimis, J. P.	Fr., Tex.	6 Ferndell Lane	Raleigh, N. C.
Aiken, B. N.	So., C. E.	Fuquay Springs	Fuquay Springs, N. C.
Alexander, C. W.	Spec. (Tex.)	115 Turlington, 4212	Landis, N. C.
Alexander, J. H., III	So., Tex.	1018 Harvey	Scotland Neck, N. C.
Alexander, U. W.	Fr., Arch. E.	322 Turlington, 4284	Kittrell, N. C.
Allen, E. R., Jr.	Fr., Aero. E.	1812 White Oak Rd.	Raleigh, N. C.
Allen, L. M.	Fr., Cer. E.	224 Syme, 3556	Raleigh, N. C.
Allen, S. B., Jr.	Fr., E. E.	301 Turlington, 4266	Greensboro, N. C.
Allgood, T. G., Jr.	Fr., E. E.	131 Becton, 3731	Wilson, N. C.
Allison, C. L.	Fr., C. E.	307 Syme, 3571	Caroleen, N. C.
Allsbrook, J. L.	Fr., E. E.	115 Turlington, 4212	Rocky Mount, N. C.
Alphin, D. W.	Fr., Aero. E.	214 Turlington, 4242	Wendell, N. C.
Alvis, R. J.	Fr., For.	212 Berry, 4319	Newport News, Va.
Anderson, H. W.	So., Ch. E.	23 Syme, 3619	Franklin, N. C.
Anderson, L. M.	Fr., Tex.		
Andrews, C. P., Jr.	Fr., E. E.	1013 Harvey	Raleigh, N. C.
Andrews, G. H.	Fr., C. E.	123 Syme, 3523	High Point, N. C.
Anthony, J. B.	Fr., Tex.	301 Turlington, 4266	Greensboro, N. C.
Anthony, R. D.	Fr., Tex.	218 Turlington, 4246	Greensboro, N. C.
Arant, A. Y., Jr.	Fr., E. E.	218 Syme, 3550	Charlotte, N. C.
Armstrong, A. A., Jr.	Sen., Ch. E.	125 Syme, 3525	Gastonia, N. C.
Armstrong, C. P.	Jun., E. E.	201 Turlington, 4232	Davidson, N. C.
Armstrong, C. W., Jr.	Jun., Tex. Mfg.	307 Alexander, 4172	Salisbury, N. C.
Arnold, M. A.	Fr., C. E.	315 Syme, 3579	Greensboro, N. C.
Artioli, L. J.	Fr., M. E.	10 Syme, 3606	Springfield, Mass.
Asbury, W. M.	So., E. E.	518 E. Lane	Newton, N. C.
Astin, T. W.	Fr., Arch. E.	125 Syme, 3525	Charlotte, N. C.
Atkinson, H. C.	Fr., Aero. E.	103 Turlington, 4202	Fayetteville, N. C.
Atwood, J. A., III	Special	121 Cox Ave.	Watch Hill, R. I.
Austin, E. H.	Fr., Ch. E.	305 Syme, 3569	Four Oaks, N. C.
Autry, Von, Jr.	Fr., Aero. E.	Trailer	Fayetteville, N. C.
Avera, W. W.	Sen., M. E.	329 Alexander, 4192	Rocky Mount, N. C.
Ayers, A. G.	Jun., An. Prod.	224 Bagwell, 3356	Fairmont, N. C.
Bailey, M. W.	Fr., E. E.	222 Turlington, 4250	Cliffside, N. C.
Baker, L. H.	Fr., For.	3 Syme, 3599	Sylva, N. C.
Baker, R. A.	Fr., E. E.	237 Turlington, 4262	Rocky River, Ohio
Baker, T. F.	Fr., Aero. E.	229 Syme, 3561	Summerville, S. C.
Baldwin, W. P.	Fr., E. E.	203 Turlington, 4234	Biscoe, N. C.
Ballard, Mrs. Frances W.	So., Occ. I. & G.	1205 Filmore	Ft. Lauderdale, Fla.
Ballard, L. N.	Fr., E. E.	305 Alexander, 4171	Goldsboro, N. C.
Bannerman, D. V.	Fr., M. E.	Fieldhouse	Carolina Beach, N. C.
Barber, J. T.	Fr., Tex.	231 Alexander, 4160	Winston-Salem, N. C.
Barber, W. H.	Fr., Tex.	231 Alexander, 4160	Winston-Salem, N. C.
Barber, Y. M., Jr.	Fr., Ag.	105 Syme, 3505	Moyock, N. C.
Barbour, E. S.	Fr., E. E.	121 Turlington, 4218	Enfield, N. C.
Barefoot, E. G.	Fr., Ag.	2717 Barmettler	Four Oaks, N. C.
Barefoot, S. O.	Fr., E. E.	312 Syme, 3576	Dunn, N. C.
Barksdale, R. B.	Fr., C. E.	10 Syme, 3606	Whiteville, N. C.

Name	*Classification*	*School Address Dorm. Box No. or St. No.*	*Home Address*
Barnes, C. W.	Fr., M. E.	2008 Hillsboro	Nashville, N. C.
Barnes, G. W.	Fr., For.	415 Elm	Raleigh, N. C.
Barnes, Mary Ruth	Fr., Ag. Ch.	1101 Wake Forest Rd.	Raleigh, N. C.
Barnes, W. M., Jr.	So., E. E.	308 Syme, 3572	Wilson, N. C.
Barney, J. W., Jr.	Grad., M. E.	24 Syme, 3620	Elon College, N. C.
Barnhill, Edna P. (Mrs.)	Grad., Ag. Ch.	2608 Lochmoore Dr.	Raleigh, N. C.
Barnhill, J. D.	Fr., Ch. E.	2608 Lochmoore Dr.	Raleigh, N. C.
Barnhill, W. L.	Fr., Ag.	101 Turlington, 4200	Stokes, N. C.
Barr, J. M., Jr.	So., Tex.	104 Harrison Ave.	Charlotte, N. C.
Barrett, B. W.	Jun., Agron. (Soils)	202 Gold, 3214	Macon, N. C.
Barrington, E. W.	Fr., E. E.	203 Alexander, 4135	Raeford, N. C.
Bartlett, D. I.	Sen., Tex. Mfg.	103 Alexander, 4103	Oldtown, Va.
Bateman, J. B., Jr.	Fr., C. E.	9 Berry, 4342	Greensboro, N. C.
Beall, A. J., Jr.	Fr., M. E.	304 Berry, 4324	Charlotte, N. C.
Beamon, S. C. H.	Fr., Ag. E.	Col. Court Apt. 5	Raleigh, N. C.
Beeman, R. C.	Jun., Dairy Mfg.	1109 Mordecai Dr.	Annapolis, Md.
Bean, E. R., Jr.	Fr., C. E.	333 Bagwell, 3399	Asheville, N. C.
Belk, Sammie	Fr., Aero. E.	318 Turlington, 4280	Kannapolis, N. C.
Bellucci, H. N.	So., Arch. E.	219 Syme, 3551	New London, Conn.
Bennett, J. H.	Fr., E. E.	318 Syme, 3582	Roanoke Rapids, N. C.
Benton, J. H.	So., Arch.	Apex	Apex, N. C.
Bernard, J. B., Jr.	Fr., For.	212 Berry, 4319	Lenoir, N. C.
Berrier, L. H.	Fr., C. E.	9 Syme, 3605	Lexington, N. C.
Berry, R. M.	Fr., M. E.	309 Turlington, 4272	Charlotte, N. C.
Berryhill, E. C.	So., Ag.	6 Syme, 5127 Sta. Col. Sta.	Paw Creek, N. C.
Beyer, J. S.	Spec. (Arch.)	1710 Hillsboro	Asheboro, N. C.
Biggers, H. C., Jr.	Fr., M. E.	309 Berry, 4329	Charlotte, N. C.
Biggs, M. H., Jr.	Spec.	205 Berry, 4312	Rutherfordton, N. C.
Bishop, R. Q.	Fr., For.	135 Alexander, 4128	Chambersburg, Pa.
Black, D. C.	Fr., M. E.	321 Becton, 3789	Charlotte, N. C.
Blackwelder, C. R., Jr.	So., E. E.	211 Berry, 4318	Concord, N. C.
Blackwell, E. T.	So., Ag. E.	133 Turlington, 4228	Oxford, N. C.
Blake, T. W.	Fr., E. E	110 Turlington, 4207	Wilmington, N. C.
Bland, J. M.	Fr., E. E.	108 Syme, 3508	Greenville, N. C.
Bland, W. A.	Grad., For.	Cary	Cary, N. C.
Blanton, G. K.	Fr., Ch. E.	212 Turlington, 4240	Spindale, N. C.
Blanton, L. F.	Jun., Dairy Mfg.	109 Turlington, 4206	Lincolnton, N. C.
Blue, A. F.	Fr., Tex.	204 Turlington, 4235	
Blue, W. A.	So., C. E.	302 Berry, 4322	Carthage, N. C.
Blue, W. H., Jr.	So., Tex. Mfg.	314 Turlington, 4276	Nashville, Tenn.
Blumer, T. N.	Grad., Pl. Path.	3209 Hillsboro	E. Rochester, N. Y.
Boger, J. P.	So., Aero. E.	2 Gym	Concord, N. C.
Boggan, H. L.	Fr., C. E.	304 Turlington, 4269	Albemarle, N. C.
Boice, E. S., Jr.	Fr., Aero. E.	321 Turlington, 4283	Rocky Mount, N. C.
Bollin, C. R.	Sen., Tex. Mgt.	307 Alexander, 4172	Mayodan, N. C.
Booker, C. E.	Fr., M. E.	Rt. 4, Box 68	Raleigh, N. C.
Boozer, J. W., Jr.	Spec.	2202 Hillsboro	South Boston, Va.
Bost, P. R.	Fr., M. E.	Fieldhouse	Concord, N. C.
Bostian, R. W.	So., M. E.	105 Turlington, 4204	Charlotte, N. C.
Boswell, A. W.	Fr., Gen. E.	1507 Hillsboro	Bailey, N. C.
Bouldin, B. R.	Fr., M. E.	327 Alexander, 4190	Elon College, N. C.
Boyce, M. B.	So., Tex.	114 Syme, 3514	Albemarle, N. C.
Boyd, E. F., Jr.	Fr., Tex. C. & D.	134 Turlington, 4229	Stanley, N. C.
Boyd, L. M., Jr.	Spec. (Tex.)	201 Berry, 4308	Salisbury, N. C.
Boyette, C. F.	Fr., E. E.	213 S. Harrington	
Boyette, C. R.	Jun., Tex. Mfg.	11 Syme, 3607	Goldsboro, N. C.
Brady, A. G., Jr.	So., Ch. E.	102 4th, 3112	Henderson, N. C.
Branch, J. K.	Fr., For.	113 Turlington, 4273	DeWitt, Va.
Brank, W. S., Jr.	Fr., M. E.	Fieldhouse	Asheville, N. C.

Name	*Classification*	*School Address Dorm. Box No. or St. No.*	*Home Address*
Brantley, C. B.	Fr., Gen. E.	316 Syme, 3580	Bailey, N. C.
Bridger, L. C., Jr.	Fr., Tex.	1720 Hillsboro	Bladenboro, N. C.
Bridges, R. H.	Fr., M. E.	125 Chamberlain	Raleigh, N. C.
Briggs, S. T.	So., Ag.	223 Becton, 3757	Pfafftown, N. C.
Brinson, W. J.	Fr., Ag.	101 Berry, 4301	Arapahoe, N. C.
Britt, W. M.	So., Ag.	222 Cox Ave.	Garner, N. C.
Brittain, J. V., Jr.	Fr., For.	5 Syme, 3601	Black Mountain, N. C.
Broadwell, F. J., Jr.	Fr., E. E.		Greenville, N. C.
Brogden, A. S.	Fr., Ag.	128 Alexander, 4123	Faison, N. C.
Brooks, P. W., Jr.	Fr., E. E.		
Brooks, T. F.	Fr., M. E.	213 Bagwell, 3363	Belhaven, N. C.
Brooks, W. H.	Fr., M. E.	225 Syme, 3557	Greensboro, N. C.
Brower, W. A.	Fr., Tex.	123 Syme, 3523	Wadesboro, N. C.
Brown, F. W., Jr.	Jun., Ch. E.	3414 Hillsboro	Black Mountain, N. C.
Brown, J. L., Jr.	Fr., M. E.	340 Turlington, 4298	Charlotte, N. C.
Brown, J. O. T.	Sen., Ch. E.	226 Turlington, 4254	Roanoke Rapids, N. C.
Brown, J. Q.	Fr., Tex. Mfg.	338 Alex., 4198	Roanoke Rapids, N. C.
Brown, L. A., Jr.	Jun., C. E.	133 Alexander, 4127	Charlotte, N. C.
Brown, L. H.	Fr., M. E.	710 Bloodworth	Raleigh, N. C.
Brown, R. A.	Fr., Gen. E.	118 Syme, 3518	Cliffside, N. C.
Brown, R. O.	Sen., Dairy Mfg.	4 Syme, 3600	Charlotte, N. C.
Bryant, E. R.	Fr., E. E.	21 Syme, 3617	Fieldale, Va.
Bryant, J. R.	So., Gen. E.	2208 Hope	Rich Square, N. C.
Buck, W. F.	Fr., E. E.	333 Becton, 3801	Roanoke Rapids, N. C.
Buckner, S. H.	Fr., M. E.	6 Becton, 3808	Elon College, N. C.
Buffaloe, H. L.	Sen., M. E.	1307 Hillsboro	Raleigh, N. C.
Buie, J. T.	Fr., C. E.	302 Becton, 3770	Red Springs, N. C.
Bullard, W. G.	Fr., Arch. E.	325 Turlington, 4287	Rocky Mount, N. C.
Bulluck, P. R., Jr.	Fr., Ag.	203 Syme, 3535	Rocky Mount, N. C.
Bumgardner, E. E.	Fr., M. E.	304 Alex., 4170	Winston-Salem, N. C.
Bumgarner, C. S., Jr.	So., E. E.	229 Syme, 3561	Millers Creek, N. C.
Bunch, J. R.	Fr., M. E.	327 Syme, 3591	Hobbsville, N. C.
Bundy, W. A.	Fr., C. E.	3 Berry, 4336	Charlotte, N. C.
Bunker, H. W.	Fr., Ag.	102 Syme, 3502	Mebane, N. C.
Burch, J. P.	Sen., An. Prod.	209 Gold, 3221	Mountain Park, N. C.
Burchard, P. E.	Fr., For.	604 Rosemont Ave.	Raleigh, N. C.
Burgess, H. C., Jr.	Fr., M. E.	606 E. Lane	Raleigh, N. C.
Burkhead, C. I., Jr.	Jun., E. E.	319 Becton, 3787	Candor, N. C.
Burns, H. D.	So., Ag.	212 Bagwell, 3344	Fairmont, N. C.
Burnsed, J. L.	Fr., Tex.	314 Turlington, 4276	Shaw, Miss.
Burtner, R. L., Jr.	So., M. E.	126 Turlington, 4223	Washington, D. C.
Burton, N. E., Jr.	Fr., Aero. E.	103 Syme, 3503	Goldsboro, N. C.
Butler, J. A.	Fr., Ag.	St. Mary's St. (Rex Hosp.)	
Butts, J. T.	So., C. E.	201 Syme, 3533	Fuquay Springs, N. C.
Byrd, W. C.	So., Arch. E.	433 Halifax	Raleigh, N. C.
Cain, J. B., Jr.	Fr., C. E.	104 Alex., 4104	Winston-Salem, N. C.
Callis, H. M.	Fr., Ag.	15 Syme, 3611	Willow Springs, N. C.
Cameron, J. M.	Grad., Exp. Sta.	108 4th, 3118	Ursina, Pa.
Campbell, P. P.	Fr., Aero. E.	302 Hawthorn Rd.	Raleigh, N. C.
Cannon, T. F.	Fr., E. E.	319 Syme, 3583	Canton, N. C.
Capps, E. A.	Fr., E. E.	126 Syme, 3526	Rocky Mount, N. C.
Carawan, H. L.	Fr., Gen. E.	319 Syme, 3583	Washington, N. C.
Carnes, W. H.	Fr., E. E.	213 Berry, 4320	Four Oaks, N. C.
Carpenter, R. L.	Fr., M. E.	219 Turlington, 4247	Thomasville, N. C.
Carpenter, R. M.	So., M. E.	4 Maiden Lane	Raleigh, N. C.
Carr, McDonald	Fr., Ag.	215 Syme, 3547	Magnolia, N. C.
Carroll, E. T.	Fr., Ag.	127 Alexander, 4122	Hillsboro, N. C.
Carroll, Norma B. (Mrs.)	Grad., Ag. Ch.	1213 Filmore	Raleigh, N. C.
Carroll, W. L.	Fr., Ag.	312 Alexander, 4175	Cherryville, N. C.

Name	*Classification*	*School Address Dorm. Box No. or St. No.*	*Home Address*
Carson, G. C.	So., Ag. Ed.	1 Syme, 3597	Democrat, N. C.
Carter, E. A.	Fr., M. E.		Reidsville, N. C.
Casey, J. F.	Jun., Land. Arch.	313 Alexander, 4176	Goldsboro, N. C.
Cecil, C. M., Jr.	Fr., E. E.	208 Gold, 3220	Greensboro, N. C.
Chadwick, G. H., Jr.	So., Gen. E.	114 Turlington, 4211	Wilmington, N. C.
Chambers, C. L.	Fr., Ind. E.	16 Syme, 3612	Daytona Beach, Fla.
Chambliss, N. Y., Jr.	Fr., M. E.	224 Turlington, 4252	Rocky Mount, N. C.
Chandler, J. M.	So., Ch. E.	2404 Hillsboro	Salisbury, N. C.
Chandler, W. H.	So., Ag.	325 Alexander, 4188	Jacksonville, Fla.
Chandler, W. S.	Sen., Ag. Ed.	105 Welch, 3241	Lumberton, N. C.
Cheng, Chen	Grad., E. E.	205 4th, 3123	
Cherry, Jack, Jr.	Fr., C. E.	333 Turlington, 4294	Washington, N. C.
Chewning, T. R., Jr.	Fr., C. E.	107 Syme, 3507	Shelby, N. C.
Christenbury, N. W.	Fr., Ag.		Charlotte, N. C.
Church, G. A.	Fr., E. E.	333 Turlington, 4294	Winston-Salem, N. C.
Clark, D. A.	Fr., Ag.	207 Berry, 4314	Watha, N. C.
Clark, D. M.	Fr., Tex.	131 Alexander, 4216	Mt. Airy, N. C.
Clark, E. A.	So., Cer. E.	607 Willard Pl.	Danville, Va.
Clark, Foy	Sen., Tex. Mfg.	332 Syme, 3596	Mt. Airy, N. C.
Clark, O. H.	Fr., C. E.	315 Turlington, 4277	Greenville, N. C.
Clark, R. Barry	So., Aero. E.	132 Syme, 3532	Cradock, Va.
Clark, R. Berman	Fr., Aero. E.	8 Syme, 3604	Henderson, N. C.
Clark, T. J.	Jun., Tex. Mfg.	2514 Mordecai Dr.	Charlotte, N. C.
Clifton, D. S.	So., M. E.	Gen. Del., Trailer	Warsaw, N. C.
Cloninger, S. Y.	Fr. Tex.	203 Syme, 3535	Kings Mountain, N. C.
Cloud, F. J., Jr.	Fr., Aero. E.	303 Gold, 3227	Lilesville, N. C.
Coble, K. L.	Fr., C. E.	205 Berry, 4312	Burlington, N. C.
Coburn, D. L.	Fr., E. E.	103 Syme, 3503	Robersonville, N. C.
Cocker, John, III	Fr., M. E.	307 Berry, 4327	Gastonia, N. C.
Cockinos, F. C.	So., C. E.	324 Alexander, 4187	Charlotte, N. C.
Cockrell, J. W.	Fr., For.	202 Turlington, 4233	Kenly, N. C.
Cody, S. J.	Fr., M. E.	305 Bagwell, 3371	Canton, N. C.
Coleman, W. E.	So., Aero. E.	3200 Bedford Ave.	Johnson City, Tenn.
Colenda, J. R.	Fr., Ch. E.	107 Becton, 3707	Morehead City, N. C.
Collier, J. C., Jr.	Fr., C. E.	905 Wilmington Terr.	Raleigh, N. C.
Collins, D. A.	Fr., M. E.	217 Turlington, 4240	Plymouth, N. C.
Collins, Max, Jr.	Sen., C. E.	Cary	Cary, N. C.
Collins, T. J., Jr.	Fr., Aero. E.	203 Berry, 4310	Rural Hall, N. C.
Combs, W. A.	Fr., Ch. E.	205 Turlington, 4236	Wilson, N. C.
Comer W. C.	Fr., Tex. C. & D.	112 Syme, 3512	High Point, N. C.
Conner, R. W.	Spec.		High Point, N. C.
Conyers, F. R., Jr.	Jun., E. E.	128 Turlington, 4225	Rocky Mount, N. C.
Coogler, C. B.	Fr., C. E.	114 Becton, 3714	Chester, S. C.
Cooper, Kendall	So., M. E.	127 Turlington, 4224	Nashville, N. C.
Corbin, P. L.	So., Tex.	114 Syme, 3514	Durham, N. C.
Corl, M. B.	So., Tex.	18 Syme, 3614	Concord, N. C.
Corlett, D. F.	Fr., E. E.	705 W. Morgan	Cleveland, Ohio
Corriher, H. A., Jr.	Fr., E. E.	108 Bagwell, 3308	Hendersonville, N. C.
Council, J. M., Jr.	Jun., Ind. E.	221 Alexander, 4150	Wananish, N. C.
Cox, J. F., Jr.	So., Aero. E.	311 S. Dawson	Raleigh, N. C.
Cox, R. S.	Grad., Pl. Path.		Raleigh, N. C.
Craig, F. R.	Sen., Ag. Ed.	134 Turlington, 4229	Mt. Holly, N. C.
Crandall, R. E.	Grad., Pl. Path.	Clayton	Clayton, N. C.
Craven, F. N.	So., For.	2226 Hillsboro	Pittsburgh, Pa.
Craver, L. S.	Fr., Ag.	2712 Bedford Ave.	
Credle, W. C., Jr.	So., Aero. E.	326 Syme, 3590	Belhaven, N. C.
Croom, W. M.	Jun., Ag. Ed.	101 Syme, 3501	Delco, N. C.
Crouch, R. L.	Fr., Ind. E.	2902 Everett Ave.	Norfolk, Va.
Crysler, R. D.	Grad., Exp. Sta.	1524 Greenwood Dr.	Watertown, N. Y.

Name	*Classification*	*School Address Dorm. Box No. or St. No.*	*Home Address*
Cunningham, F. H., Jr.	Fr., Tex.	320 Alexander, 4183	Gastonia, N. C.
Currin, R. E., III	Fr., Ag.	125 Syme, 3526	Rocky Mount, N. C.
Cutrell, I. G.	Did not complete reg.		
Cyrus, J. H.	So., Ag. Ed.	102 Syme, 3502	Louisburg, N. C.
Dameron, Fred	Fr., Ag.	104 Syme, 3504	Bessemer City, N. C.
Danner, J. D.	Grad., Tex. Mfg.	238 Alexander, 4164	Nixburg, Ala.
Davids, C. C.	Fr., Ind. E.	16 Syme, 3612	Daytona Beach, Fla.
Davis, D. B.	Grad., Ind. Ed.	103 4th, 3113	Clinton, N. C.
Davis, H. W.	So., E. E.	201 Syme, 3533	Lexington, N. C.
Davis, I. K.	So., E. E.	319 Alexander, 4182	Charlotte, N. C.
Davis, J. D.	So., Aero. E.	119 Turlington, 4216	W. Asheville, N. C.
Davis, John Harold	Jun., C. E.	339 Alexander, 4199	Stantonsburg, N. C.
Davis, J. T.	Fr., E. E.	223 Syme, 3555	Lexington, N. C.
Davis, L. W.	Fr., M. E.	131 Syme, 3531	Yadkinville, N. C.
Davis, P. A.	So., Ag.	101 Syme, 3501	Winston-Salem, N. C.
Davis, R. E.	Fr., M. E.	312 Alexander, 4175	Cherryville, N. C.
Davis, W. P.	Fr., Tex.	331 Syme, 3595	Warrenton, N. C.
Dawkins, G. S.	Fr., M. E.	26 Bagwell Ave.	Raleigh, N. C.
Dawkins, L. W.	Fr., C. E.	115 Woodburn Rd.	Forest City, N. C.
Dawson, C. G.	Grad., Ru. Soc.	2209½ Hope	Dunn, N. C.
Dawson, F. H.	Fr., Ag.	101 Berry, 4301	Kinston, N. C.
Dawson, J. F.	Fr., Arch.	330 Turlington, 4292	Wilmington, N. C.
Day, N. S.	Spec.	Box 1104	
Deal, J. R.	Fr., Gen. E.	211 Turlington, 4239	Newton, N. C.
Dearstyne, R. H.	So., M. E.	2509 Fairview Rd.	Raleigh, N. C.
Debnam, E. D.	Fr., Tex.	Zebulon	Zebulon, N. C.
Dees, W. R., Jr.	Fr., Eero. E.	309 Syme, 3573	Fremont, N. C.
Deese, H. F., Jr.	Fr., E. E.	118 Syme, 3518	Albemarle, N. C.
Deese, J. A.	Fr., M. E.	109 Turlington, 4206	New London, N. C.
DeLamar, J. T.	So., Tex. C. & D.	238 Turlington, 4263	Charlotte, N. C.
de la Rama, Jesse, Jr.	Sen., Tex. Mfg.	2805 Bedford Ave.	Baltimore, Md.
DeSanto, R. E.	Fr., Tex.	524 Alexander, 4187	Greensboro, N. C.
Dick, L. G.	Fr., Tex.	312 Turlington, 4274	Greensboro, N. C.
Dicks, J. R.	Fr., Ag. Ed.	106 Berry, 4306	Fayetteville, N. C.
Dillingham, W. H.	Fr., Ch. E.	208 Berry, 4315	Asheville, N. C.
Dixon, W. J., Jr.	So., Aero. E.	103 Chamberlain	Charlotte, N. C.
Doak, C. W.	Sen., Ru. Soc.	120 Woodburn Rd.	Raleigh, N. C.
Dobson, S. H.	Grad., Agron. (F.C.)	103 4th, 3113	Statesville, N. C.
Dodd, W. I., Jr.	Fr., M. E.	620 Wills Forest	Raleigh, N. C.
Doggett, J. F.	Grad., Agron. (Soils)	304 4th, 5157 State Col. Sta.	
Downs, J. D.	Fr., E. E.	322 Turlington, 4284	Fayetteville, N. C.
Drake, M. W.	Fr., E. E.	211 Syme, 3543	Belmont, N. C.
Dresser, A. E.	So., M. E.	2202 Hillsboro	Raleigh, N. C.
DuBose, H. W., Jr.	Fr., M. E.	311 Turlington, 4273	Richmond, Va.
Dunn, W. E., Jr.	Fr., M. E.	305 Bagwell, 3371	
Dycus, R. W.	Fr., E. E.	922 N. Boylan Ave.	Shelby, N. C.
Dymond, W. J.	Fr., C. E.	Fieldhouse	Wilkes-Barre, Pa.
Eakes, E. K.	So., Ag.	228 Syme, 3560	Clinton, N. C.
Eakes, S. E.	Sen., Ag. Ch.	514½ Oakwood Ave.	Oxford, N. C.
Eakins, T. A.	Fr., Ag.	140 Alexander, 4132	Ivanhoe, N. C.
Eason, J. D., Jr.	Fr., Aero. E.	205 Wat., 3023	Goldsboro, N. C.
Easter, J. W.	Fr., Aero. E.	203 Berry, 4310	Winston-Salem, N. C.
Edgerton, D. J.	Fr., Tex.	309 Alexander, 4173	Smithfield, N. C.
Edwards, C. D., Jr.	Fr., M. E.	127 Syme, 3527	Baltimore, Md.
Edwards, L. E.	Fr., Ag.	217 S. West St.	Raleigh, N. C.
Edwards, R. D.	Fr., Ag. E.	309 Gold, 3233	Marshville, N. C.
Elliott, C. G.	Fr., C. E.	234 Bagwell, 3366	Winston-Salem, N. C.
Elliott, T. C.	Spec.	408 Polk	Barnesville, Ga.

Name	*Classification*	*School Address Dorm. Box No. or St. No.*	*Home Address*
Ellis, G. L.	Fr., Ag.	202 Syme, 3534	Goldsboro, N. C.
Ellis, H. H.	Spec. (Tex.)		Spruce Pine, N. C.
Ely, E. B.	Fr., Tex.	314 Turlington, 4276	Shaw, Miss.
Emory, J. W.	Fr., M. E.	317 New Bern Ave.	
Euart, C. E.	Fr., Ag.	327 Turlington, 4289	Salisbury, N. C.
Evans, R. C.	Fr., Aero. E.	331 Alexander, 4194	Wilson, N. C.
Evans, R. H.	Sen., C. E.	R-1-B Cameron Ct. Apts.	Raleigh, N. C.
Evans, T. H.	So., C. E.	211 Berry, 4318	Robersonville, N. C.
Evans, T. L.	Fr., Ag.	302 Syme, 3566	Reidsville, N. C.
Everett, R. O.	Sen., Ch. E.	332 Syme, 3596	Greenville, N. C.
Faires, A. M.	So., Aero. E.	227 Syme, 3559	Wallace, N. C.
Fansler, F. I., Jr.	Fr., C. E.	306 Hillcrest	Winston-Salem, N. C.
Fayssoux, J. E.	Fr., C. E.	330 Syme, 3594	Gastonia, N. C.
Fayssoux, W. E.	Fr., M. E.	223 Alexander, 4152	Gastonia, N. C.
Feldman, Irving	So., C. E.	317 Alexander, 4279	Brooklyn, N. Y.
Ferrell, J. E.	Fr., Tex.	208 Syme, 3540	Burgaw, N. C.
Fesperman, C. C., Jr.	Fr., C. E.	219 Turlington, 4247	Charlotte, N. C.
Fields, R. A.	So., Ch. E.	106 Bagwell, 3306	St. Joe, Ark.
Finch, J. C.	Fr., M. E.	201 Bagwell, 3333	Monroe, N. C.
Fincher, C. R.	Sen., An. Prod.	207 Syme, 3559	Matthews, N. C.
Finison, B. F.	Fr., For.	202 Turlington, 4233	Troy, N. C.
Finley, J. L.	Sen., Tex. Mfg.	125 Alexander, 4120	Salisbury, N. C.
Fishel, J. S.	Fr., Arch. E.	21 Enterprise	Winston Salem, N. C.
Fisher, J. G.	Spec. (Tex.)	107 Turlington, 4205	Scarsdale, N. Y.
Fisher, R. W.	Spec.	315 Turlington, 4277	Salisbury, N. C.
Fleenor, C. T., Jr.	Fr., Ch. E.	226 Turlington, 4254	Martinsville, Va.
Fleming, B., Jr.	Fr., E. E.	219 Syme, 3551	Oxford, N. C.
Fleming, R. A.	Fr., Aero. E.	227 Syme, 3559	Middleburg, N. C.
Fleming, W. H.	Fr., M. E.	311 Syme, 3575	Warrenton, N. C.
Flowers, R. G., Jr.	So., E. E.	134 Turlington, 4229	Hickory, N. C.
Fonvielle, J. N.	Fr., Aero. E.	204 Berry, 4311	Warsaw, N. C.
Foote, H. W.	Spec. (Tex.)	129 Alexander, 4124	Charlotte, N. C.
Fortune, R. J.	So., Tex. C. & D.	115 Forest Rd.	Raleigh, N. C.
Foster, A. W.	Sen., C. E. (Con.)	31 Shepherd	Raleigh, N. C.
Foster, F. D.	Grad. Ag. Ch.		Raleigh, N. C.
Foster, J. R., Jr.	Fr., M. E.	303 Gold, 3227	
Foster, W. L.	So., For.	210 Syme, 3542	Hendersonville, N. C.
Fowler, M. J.	Fr., M. E.	21 Syme, 3617	Shelby, N. C.
Fowler, N. M.	So., M. E.	323 Syme, 3592	Shelby, N. C.
Francis, M. E.	Fr., E. E.	1417 Park Dr.	Tucson, Ariz.
Francis, R. H.	Fr., M. E.	212 Welch, 3260	Waynesville, N. C.
Franke, Va. Mae	Grad., Ag. Ch.	Rt. 4, Raleigh	Raleigh, N. C.
Franks, T. H., Jr.	Fr., E. E.	103 Bagwell, 3303	Hendersonville, N. C.
Freeman, W. F., Jr.	So., Arch. E.	306 Syme, 3570	
Freeman, W. Thos.	Fr., M. E.	212 Welch, 3260	Waynesville, N. C.
Freeman, W. Thurman	So., C. E.	27 Becton, 3826	Hamlet, N. C.
Fritz, H. L.	Jun., Ch. E.	124 Alexander, 4119	Charleston, S. C.
Fulcher, O. M.	Sen., An. Prod.	4 Syme, 3600	Leaksville, N. C.
Fulk, T. W.	Fr., Tex.	303 Turlington, 4268	Lewisville, N. C.
Fuller, G. R.	Fr., For.	214 Alexander, 4143	Louisburg, N. C.
Fullington, F. J.	Fr., Tex.	314 Alexander, 4177	Greensboro, N. C.
Futrell, A. W., Jr.	So., M. E.	206 Syme, 3538	Nashville, N. C.
Futrell, H. P.	Fr., Ag.	109 Turlington, 4206	Pendleton, N. C.
Gadsden, C. M.	So., E. E.	1821 St. Marys	Charlotte, N. C.
Galloway, J. H.	Grad., Ag. Ch.	Apt. C-5, Raleigh Apts.	Raleigh, N. C.
Gantt, A. E.	So., Ch. E.	1 Berry, 4334	Kings Mt., N. C.
Gantt, W. M.	Fr., M. E.	302 Turlington, 4267	Albemarle, N. C.
Gardner, C. E.	So., Ag.	2708 Bedford Ave.	Raleigh, N. C.

Name	*Classification*	*School Address* *Dorm. Box No. or St. No.*	*Home Address*
Gardner, J. H.	Fr., Tex.	14 Syme, 3610	Shelby, N. C
Gardner, R. D.	Fr., Aero. E.	331 Alexander, 4194	Wilson, N. C
Garren, C. L.	Fr., Gen. E.	115 Syme, 3515	Caroleen, N. C
George, H. H.	Fr., For.	214 Syme, 3546	Cherryville, N. C
Gibbs, J. P.	Jun., Ag. E.	1625 Wake Forest Rd.	Decatur, Ala
Gibson, H. M.	So., E. E.	Box 1203	Laurinburg, N. C
Gill, M. D.	Fr., C. E.	918 W. Johnson	Raleigh, N. C
Gilliam, J. H.	Fr., For.	133 Turlington, 4228	Elon College, N. C
Ginnings, P. R.	Sen., Ch. E.	122 Alexander, 4117	Greensboro, N. C.
Glasgow, O. B.	Fr., E. E.	111 Becton, 3711	Norfolk, Va.
Glenn, J. M.	So., Aero. E.	114 Turlington, 4211	Gatesville, N. C
Glover, S. A., Jr.	Fr., Ag.	17 Becton, 3819	Wilson, N. C
Gold, Eugene	Fr., Tex.	209 Turlington, 4238	Brooklyn, N. Y.
Goldman, Paul	Sen., Tex. Mgt.	227 Turlington, 4255	New York, N. Y.
Goldston, E. E.	Grad., Agron. (Soils)	306 4th, 3132	Balm, N. C
Goldston, R. L.	So., M. E.	116 Alexander, 4113	Kannapolis, N. C
Gooch, W. A., Jr.	So., M. E.	122 Syme, 3522	Durham, N. C
Good, T. M.	Fr., Tex.	204 Berry, 4311	Charlotte, N. C
Gorman, R. L.	Jun., Tex. Mfg.	3010 Cambridge Rd.	Troy, N. Y.
Gorman, W. R.	So., M. E.	916 Cowper Dr.	High Point, N. C.
Gourley, M. L.	Fr., E. E.	21 Syme, 3617	Fieldale, Va.
Gowan, R. J.	Fr., Ch. E.	218 Syme, 3550	Charlotte, N. C.
Graham, W. A., Jr.	Fr., Arch. E.	312 Becton, 3780	Elkin, N. C.
Granger, R. J.	Grad., Tex. C. & D.	2308 Hillsboro	Raleigh, N. C.
Grant, H. W.	So., E. E.	213 Watauga, 3031	Selma, N. C.
Green, M. L.	Fr., Ag. E.	230 Turlington, 4258	Clyde, N. C.
Greene, P. H.	Fr., M. E.	112 Watauga, 3012	Tampa, Fla.
Greene, R. C.	Fr., Tex.	208 Gold, 3220	Greensboro, N. C.
Greer, E. E.	Fr., M. E.	3 Syme, 3599	Boone, N. C.
Greer, W. P., Jr.	Fr., Tex.	227 Turlington, 4255	Bristol, Va.
Gregg, E. B.	Fr., E. E.	2514 Clark Ave.	Charlotte, N. C.
Gregory, K. E.	Jun., An. Prod.	213 Turlington, 4241	Franklin, N. C.
Gregory, S. T.	So., Tex.	132 Syme, 3532	Halifax, N. C.
Griffin, Q. L.	Fr., Geol. E.	320 Becton, 3788	Spindale, N. C.
Griffith, W. R.	Fr., C. E.	203 Berry, 4310	Davidson, N. C.
Griggs, J. G.	Fr., E. E.	209 Syme, 3541	Lenoir, N. C.
Grimes, N. J., Jr.	Fr., E. E.	124 Turlington, 4221	China Grove, N. C.
Grogan, J. G.	Fr., M. E.	306 Berry, 4326	Winston-Salem, N. C.
Groves, R. M.	Fr., Tex.	320 Alexander, 4183	Charlotte, N. C.
Guthrie, J. D.	Fr., For.	329 Turlington, 4291	Gates, N. C.
Hager, R. F.	Jun., M. E.	3414 Hillsboro	Franklin, Nebr.
Haigler, L. B.	Fr., E. E.	205 Syme, 3537	Charlotte, N. C.
Hales, F. N.	Fr., M. E.	5 Becton, 3807	Zebulon, N. C.
Halladay, W. J., Jr.	Fr., E. E.	319 Bagwell, 3385	Greensboro, N. C.
Halstead, K. G.	Fr., E. E.	209 Syme, 3541	Norfolk, Va.
Ham, C. A.	Fr., M. E.	305 Turlington, 4270	Mooresville, N. C.
Hamilton, H. M.	Fr., Ag.	105 Syme, 3505	Atkinson, N. C.
Hamilton, J. H., Jr.	So., For.	2119 St. Marys	Raleigh, N. C.
Hamner, E. J.	So., Tex.	McAlpine Hotel	Altavista, Va.
Hampton, C. W.	So., Tex.	202 Groveland Ave.	Bethany, Mo.
Hamrick, S. M.	Grad., Ag. Ch.		Shelby, N. C.
Haney, T. J.	Fr., C. E.	309 Gold, 3233	Marshville, N. C.
Hanna, W. J.	Grad., Agron. (Soils)	3206 Clark Ave.	Greenville, S. C.
Hardie, C. A.	Fr., Aero. E.	301 Berry, 4321	Miami, Fla.
Harding, R. M.	Grad., Exp. Sta.	207 4th, 3125	Granville, Ohio
Hardison, H. A.	Jun., F. M. & F.	211 Welch, 3259	Williamston, N. C.
Hardison, N. Winifred	Auditor	2118 St. Marys	Raleigh, N. C.
Hardwicke, P. J.	Grad., Ag. Ch.		Wake Forest, N. C.
Harmon, F. H.	Fr., Ag.	12 N. Boylan Ave.	Statesville, N. C.

Name	*Classification*	*School Address Dorm. Box No. or St. No.*	*Home Address*
Harper, J. P.	Fr., For.	415 Dixie Trail	Andrews, S. C.
Harper, L. L., Jr.	Fr., Ag.	24 Becton, 3825	Spring Hope, N. C.
Harrell, G. O.	So., Cer. E.	1517 Hanover	Raleigh, N. C.
Harris, A. R.	Fr., For.	214 Syme, 3546	Moorestown, N. J.
Harris, C. M.	Fr., Aero. E.	126 Turlington, 4223	Greensboro, N. C.
Harris, E. G.	Fr., E. E.	131 Syme, 3531	High Point, N. C.
Harris, R. C.	Fr., M. E.	503 N. Wilmington	Candor, N. C.
Hart, L. F.	Fr., Ag.	223 Bagwell, 3355	Monroe, N. C.
Hart, S. B.	So., Ch. E.	109 Syme, 3509	Monroe, N. C.
Hartzog, L. S.	Sen., Ind. E.	5163, Sta. Col. Sta.	Lexington, N. C.
Hash, L. J.	Sen., Aero. E.	224 Syme, 3556	Piney Creek, N. C.
Haskins, Q. F.	Fr., E. E.	210 Watauga, 3028	Bailey, N. C.
Hassell, J. L.	Sen., Aero. E.	232 Syme, 3564	Edenton, N. C.
Hathcock, A. C.	Fr., E. E.	301 Brooks Ave.	Raleigh, N. C.
Hawley, H. L.	Fr., Arch. E.		Lexington, N. C.
Hayes, N. E.	Fr., E. E.	321 Syme, 3585	Kings Mountain, N. C.
Hayes, R. L.	So., Ag.	227 New Bern Ave.	Alexander, N. C.
Hayes, T. T., Jr.	Fr., M. E.	112 Syme, 3512	Sanford, N. C.
Haygood, R. C., Jr.	Fr., Tex.	227 Alexander, 4156	Gastonia, N. C.
Head, W. L.	So., E. E.	131 Bagwell, 3331	Asheville, N. C.
Hearn, W. M.	Fr., E. E.	1718½ Hillsboro	Raleigh, N. C.
Hebert, T. T.	Grad., Pl. Path.	216 E. Aycock	
Hefner, O. D.	Fr., Ag.	Morgan St.	Altapass, N. C.
Hege, C. L.	So., Ag. Ed.	122 Syme, 3522	Advance, N. C.
Hehn, J. M.	Fr., Tex.	310 Syme, 3574	Short Hills, N. J.
Helms, N. E.	Fr., Ag. Ed.	228 Alexander, 4157	Monroe, N. C.
Helton, E. H.	Jun., Aero. E.	330 Turlington, 4292	Timberland, N. C.
Henderson, A. L.	Fr., E. E.	330 Syme, 3594	Monroe, N. C.
Henderson, H. C.	Fr., For.	214 Alexander, 4143	Pollocksville, N. C.
Henderson, T. C.	Sen., Ag. Ed.	123 Turlington, 4220	Lake Toxaway, N. C.
Henry, E. R.	F., M. E.	135 Turlington, 4230	Spencer, N. C.
Henry, J. H.	So., Ch. E.	328 Syme, 3592	Asheville, N. C.
Heritage, T. P.	Sen., C. E.	323 Shepherd Ave.	Burlington, N. C.
Herlevick, V. W.	So., For.	314 Forest Rd.	Monroe, La.
Hessee, E. W.	Fr., Ch. E.	19 Becton, 3820	Morehead City, N. C.
Hester, O. C.	Fr., Ag.	133 Turlington, 4228	Bladenboro, N. C.
Hiatt, L. D.	Fr., C. E.	12 Becton, 3814	Thomasville, N. C.
Hickman, D. R.	Fr., C. E.	233 Alexander, 4161	Hudson, N. C.
Highsmith, L. A.	Fr., Ag.	2710 Everette Ave.	Chapel Hill, N. C.
Hill, J. D.	Fr., M. E.	113 Turlington, 4210	Badin, N. C.
Hill, R. J.	Fr., Tex.	305 Turlington, 4270	Mooresville, N. C.
Hill, T. H.	Fr., Aero. E.	303 Turlington, 4268	Marietta, N. C.
Hill, T. O.	Fr., Ch. E.	322 Alexander, 4185	Mt. Airy, N. C.
Hillis, J. H.	Fr., Tex.	202 Berry, 4309	Charlotte, N. C.
Hines, D. H.	Fr., Geol. E.	5½ Dixie Trail	Carolina Beach, N. C.
Hinkle, R. C., Jr.	Jun., Ch. E.	322 Syme, 3586	Lexington, N. C.
Hobbs, M. E.	Fr., Ind. A. Ed.	1016 Boylan Dr.	Raleigh, N. C.
Hobson, W. M.	Fr., Ag.	211 Bagwell, 3343	Booneville, N. C.
Hodges, R. S.	So., E. E.	304 Bagwell, 3370	Washington, N. C.
Hodnett, S. A.	Jun., Ch. E.	321 Turlington, 4283	Durham, N. C.
Holder, W. C.	Fr., Tex.	115½ N. McDowell	Asheboro, N. C.
Holland, S. L.	Fr., Tex.	706 N. East	Raleigh, N. C.
Holler, J. F.	So., Arch.	131 Turlington, 4227	Conover, N. C.
Holloman, E. K., Jr.	Jun., M. E.	202 Alexander, 4134	Goldsboro, N. C.
Hollowell, W. A.	Fr., E. E.	325 Syme, 3589	Goldsboro, N. C.
Holmes, J. H.	Fr., Ch. E.	228 Turlington, 4256	Hamlet, N. C.
Holmes, S. A.	Fr., C. E.	323 Syme, 3587	Jonesboro, N. C.
Holton, R. T.	So., M. E.	101 Welch, 3237	New Bern, N. C.
Holtzclaw, R. W.	Jun., M. E.	135 Turlington, 4230	Canton, N. C.
Hood, C. W.	Fr., C. E.	333 Alexander, 4195	Sherrills Ford, N. C.

Name	*Classification*	*School Address Dorm. Box No. or St. No.*	*Home Address*
Hoover, G. R.	Jun., M. E.	136 Turlington, 4231	Winston-Salem, N. C.
Hope, F. F.	So., C. E.	306 Syme, 3570	Burlington, N. C.
Horel, G. J.	Fr., Ag.	328 Turlington, 4290	Plainfield, N. J.
Horne, Ashley, Jr.	Fr., E. E.	205 Alexander, 4137	
Horner, Collins	Sen., Ch. E.	230 Alexander, 4159	Merchantville, N. J.
Horton, D. M.	So., C. E.	125 Hawthorn Rd.	Bradenton, Fla.
Horton, K. L., Jr.	Fr., C. E.	604 Hargett	Raleigh, N. C.
Houser, H. F.	So., Ch. E.	220 Turlington, 4248	Bessemer City, N. C.
Houston, F. N.	Fr., E. E.	2 Syme, 3598	Charlotte, N. C.
Houston, R. S.	Jun., Ind. E.	324 Turlington, 4286	Monroe, N. C.
Howard, Bennie, Jr.	Fr., M. E.	209 Alexander, 4139	Wendell, N. C.
Howard, C. C.	Fr., C. E.	323 Syme, 3587	Jonesboro, N. C.
Howell, E. K.	So., E. E.	116 Forest Rd.	Swannanoa, N. C.
Howell, G. V., Jr.	So., For.	128 Alexander, 4123	Waynesville, N. C.
Hu, Siu	Grad., E. E.	202 4th, 3120	
Hubbard, J. W., Jr.	Fr., Aero. E.	311 Berry, 4331	Richmond, Va.
Huffstetler, S. H.	Sen., M. E.	1503 Jarvis	Burlington, N. C.
Humphrey, W. G.	Fr., C. E.	333 Alexander, 4195	New Bern, N. C.
Hunnicutt, R. I.	Fr., M. E.	213 Syme, 3545	Charlotte, N. C.
Hunnicutt, R. W.	Fr., M. E.	805 E. Edenton	Raleigh, N. C.
Hunt, F. E., Jr.	Fr., Ag.	2211 Hope St.	Oxford, N. C.
Hunt, N. F.	Grad., Ind. Ed.	104 4th, 3114	Hendersonville, N. C.
Hunt, R. T.	Fr., M. E.	Keller's Tourist Camp	Charlotte, N. C.
Hunter, D. H.	Fr., C. E.	2210 Hope	Raleigh, N. C.
Hutchinson, F. J.	Fr., M. E.	2314 Hillsboro	East Flat Rock, N. C.
Huntley, S. N.	Fr., Ch. E.	138 Alexander, 4130	Monroe, N. C.
Hutchison, R. D.	Fr., M. E.	Field House	Spencer, N. C.
Ibach, C. R., Jr.	Fr., Tex.	218 Turlington, 4246	Charlotte, N. C.
Icard, T. F.	So., For.	231 Syme, 3563	Bradenton, Fla.
Ingram, B. F.	Fr., Ch. E.	203 Turlington, 4234	Lilesville, N. C.
Inman, H. H.	Fr., C. E.	226 Alexander, 4155	Fairmont, N. C.
Inscoe, L. S., Jr.	So., M. E.	206 Syme, 3538	Nashville, N. C.
Ivey, T.	Fr., Geol. E.	1714 Park Dr.	Raleigh, N. C.
Jabbusch, A. J.	Fr., Ch. E.	122 N. Salisbury	Lorain, Ohio
Jackson, R. M.	Fr., Tex.	227 Alexander, 4156	Gastonia, N. C.
Jackson, T. F., Jr.	Sen., E. E.	102 Watauga, 3002	Washington, N. C.
James, A. L.	Sen., Tex. Mfg.	513 N. Blount	Raleigh, N. C.
James, H. B.	Aud.	2810 Mayview Rd.	Raleigh, N. C.
Jayne, W. O.	Jun., Gen. E.	110 Turlington, 4207	Elmira, N. Y.
Jenkins, J. M., Jr.	Fr., E. E.	224 Turlington, 4252	Forest City, N. C.
Johnson, B. L.	So., E. E.	9 Syme, 3605	Lexington, N. C.
Johnson, E. G.	Fr., Tex.	302 Welch, 3262	Mt. Gilead, N. C.
Johnson, Henry Gibbs	So., Gen. E.	126 Turlington, 4224	Fountain, N. C.
Johnson, J. E., Jr.	Fr., M. E.	420½ Cutler	Raleigh, N. C.
Johnson, J. F.	Fr., Tex.	322 Alexander, 4185	Burlington, N. C.
Johnson, J. T.	Jun., An. Prod.	1601 St. Mary's	Raleigh, N. C.
Johnson, P. R.	So., Ag.	212 Bagwell, 3344	Raeford, N. C.
Johnson, R. H.	Fr., E. E.	201 Turlington, 4232	Belmont, N. C.
Johnson, S. A.	Fr., M. E.	515 Fayetteville	Raleigh, N. C.
Johnson, Walter Erskine, Jr.	Fr., Tex.	134 Becton, 3734	Statesville, N. C.
Jones, C. A.	So., E. E.	226 Syme, 3558	Brevard, N. C.
Jones, C. E.	Jun., M. E.	317 Turlington, 4279	Tarboro, N. C.
Jones, J. C.	So., E. E.	1820 Arlington	Grassy Creek, N. C.
Jones, L. C.	Grad., Agron. (F. C.)	2627 Van Dyke Ave.	Frankfort, Kansas
Jones, O. R.	So., M. E.	115 Forest Rd.	Charlotte, N. C.
Jones, Ralph Abel	Fr., E. E.	213 Alexander, 4142	Leaksville, N. C.
Jones, R. W.	Fr., Ch. E.	22 Syme, 3618	Pelham, N. C.
Jones, W. S.	Fr., For.	239 Turlington, 4264	New Bern, N. C.

Name	*Classification*	*School Address Dorm. Box No. or St. No.*	*Home Address*
Jordon, G. A.	Fr., E. E.	120 Bagwell, 3320	Winston-Salem, N. C.
Jordon, H. L.	Sen., Agron. (F. C.)	20 Syme, 3616	Clarkton, N. C.
Jordan, Mary Ellen	Grad., Exp. Stat.	Box 5353, Sta. Col. Sta.	Siler City, N. C.
Joyner, N. G.	Fr., C. E.	1000 Harvey	Rocky Mount, N. C.
Jurney, D. H.	Fr., E. E.	101 Turlington, 4200	Greensboro, N. C.
Kaczynski, H.	Sen., For.	2520 Clark Ave.	Trenton, N. J.
Kahn, M.	So., Cer. E.	305 Syme, 3569	Baltimore, Md.
Katzenoff, Robert	Jun., Ch. E.	139 Alexander, 4131	Bronx, N. Y.
Kearney, M. A.	Fr., Ch. E.	324 Alexander, 4187	Greensboro, N. C.
Kearney, W. W., Jr.	Jun., Ind. E.	316 Alexander, 4179	Rocky Mount, N. C.
Keels, H. F.	Fr. Ch. E.	127 Syme, 3527	Greensboro, N. C.
Keith, R. R.	So., E. E.	230 Syme, 3562	Hendersonville, N. C.
Keller, W. M.	Jun., For.	2222 Circle Dr.	Raleigh, N. C.
Kelley, W. K.	Fr., E. E.	320 Syme, 3584	Magnolia, N. C.
Kellogg, T. G.	Fr., Tex.	1507 Ambleside Dr.	Raleigh, N. C.
Kelman, Arthur	Grad., Pl. Path.	1715½ Hillsboro	Providence, R. I.
Kendall, F. A., Jr.	Fr., Ag.	125 Turlington, 4222	Johns, N. C.
Kendall, R. H.	Sen., Ag. Ed.	222 Park Ave.	Norwood, N. C.
Kendrick, G. H.	So., Cer. E.	109 Syme, 3509	Monroe, N. C.
Kenyon, J. T.	Jun., Aero. E.	603 Dixie Trail	Raleigh, N. C.
Kenyon, W. T.	Fr., Ag.	416 Dixie Trail	Raleigh, N. C.
Kibler, W. E.	So., Tex.	339 Turlington, 4298	Morganton, N. C.
Kidd, C. S.	So., Ag.	337 Turlington, 4296	Dobson, N. C.
King, H. C.	Fr., Ch. E.	304 Watauga, 3040	Charlotte, N. C.
King, H. D.	Fr., C. E.	235 Turlington, 4261	Winston-Salem, N. C.
King, J. I., Jr.	Spec. (Tex.)		Danville, N. C.
King, J. M., Jr.	Fr., M. E.	337 Alexander, 4197	Greensboro, N. C.
Kiopekly, George	So., Ch. E.	414 Cutler	Raleigh, N. C.
Kirby, C. A.	So., M. E.	204 Turlington, 4235	Greensboro, N. C.
Kirby, C. K.	Fr., Ch. E.	213 Berry, 4230	Gaffney, S. C.
Kirkman, S. N.	Jun., E. E.	325 Syme, 3589	Pleasant Garden, N. C.
Knight, D. L.	Spec.	1601 Fairview Rd.	Raleigh, N. C.
Knight, R. G., Jr.	Jun., Ch. E.	318 Syme, 3582	Roanoke Rapids, N. C.
Knott, B. F.	Fr., Gen. E.	2412 Hillsboro	Clarksville, Va.
Knott, W. A.	Fr., C. E.	320 Becton, 3788	Sanford, N. C.
Knowles, P. S.	Fr., Cer. E.	212 Turlington, 4240	Greenville, S. C.
Knox, H. B.	Fr., E. E.	222 Turlington, 4250	Huntersville, N. C.
Koch, K. A.	Fr., Ag. E.	Western Blvd.	Raleigh, N. C.
Kontoulas, H. N.	Fr., Arch.	315 Syme, 3579	Greensboro, N. C.
Kroening, W. H.	Spec. (Tex.)	120 Turlington, 2417	Smithfield, N. C.
Kornegay, R. C.	Fr., For.	319 Turlington, 4281	Greensboro, N. C.
Krueger, W. L.	Fr., Tex.	2514 Clark Ave.	Charlotte, N. C.
Lamm, T. A.	Fr., E. E.	2004 Hillsboro	
Lampe, J. S.	Fr., Aero. E.	220 Hillsboro	
Land, C. E.	So., C. E.	10 Enterprise	Chadbourn, N. C.
Lanier, J. W.	Fr., Ag.	225 Turlington, 4253	Lexington, N. C.
Lankford, J. F.	Fr., Ag.	127 Turlington, 4224	Kannapolis, N. C.
Lavin, J. N.	Sen., Ch. E.	230 Alex.,5272St.Col.St.	Bradley Beach, N. J.
Lee, R. E.	Fr., Aero. E.	Box 465, Six Forks Rd.	Raleigh, N. C.
Lee, R. I.	Fr., M. E.	124 Forest Rd.	Wilmington, N. C.
Leggette, J. D.	Fr., For.	202 Alexander, 4134	Washington, N. C.
LeGrand, W. F.	Sen., Tex. Mfg.	3311 Clark Ave.	Shelby, N. C.
Lentz, J. F., Jr.	Fr., E. E.	212 Syme, 3544	Morehead City, N. C.
Leonard, P. T.	Fr., E. E.	225 Turlington, 4253	Lexington, N. C.
Lester, R. O.	Fr., Ch. E.	1522 Carr	Woodsdale, N. C.
Levin, R. E.	Grad., Tex.	120 Woodburn Rd.	New York, N. Y.
Levye, M. A.	Sen., Tex. Mfg.	313 Syme, 3577	Providence, R. I.
Lewis, B. F.	Fr., C. E.	118 Alexander, 4115	Zebulon, N. C.

Name	*Classification*	*School Address Dorm. Box No. or St. No.*	*Home Address*
Lewis, W. H.	Fr., For.	239 Turlington, 4264	Whiteville, N. C.
Lindley, W. P.	Spec.	1210 Cowper Dr.	Gastonia, N. C.
Lindsay, W. C., Jr.	Fr., C. E.	311 Welch, 3271	Charlotte, N. C.
Linthicum, A. C., Jr.	Fr., M. E.		Durham, N. C.
Lippard, L. A.	Fr., Ch. E.	226 Turlington, 4254	Salisbury, N. C.
Litaker, W. C., Jr.	Fr., Ag.	215 Syme, 3547	Concord, N. C.
Little, A. E.	Fr., Aero. E.	118 Turlington, 4215	Goldsboro, N. C.
Little, G. B.	Fr., Tex.	1507 Hillsboro	Wake Forest, N. C.
Lloyd, R. T., Jr.	So., M. E.	233 Turlington, 4260	Asheboro, N. C.
Loftin, W. D.	Sen., F. B. Adm.	121 Syme, 3521	Kinston, N. C.
Long, E. W.	Fr., Ag.	223 Turlington, 4251	Kenansville, N. C.
Long, Lonnie	Fr., M. E.	136 Turlington, 4231	High Point, N. C.
Long, S. S.	Fr., C. E.	228 Alexander, 4191	Pittsboro, N. C.
Lorentzen, E. F.	Spec. (Tex.)	108 4th, 3118	Oslo, Norway
Lovington, P. L.	Fr., Aero. E.	125 Woodburn Rd.	Hempstead, N. Y.
Low, D. N.	Jun., M. E.	211 Turlington, 4240	Burnsville, N. C.
Low, J. G., Jr.	Sen., Gen. E.	116 Turlington, 4213	Burnsville, N. C.
Lowen, Sylvia H.	Aud.	2707 Bedford Ave.	Raleigh, N. C.
Lowen, Walter	Aud.	2707 Bedford Ave.	Raleigh, N. C.
Lucier, A. E.	So., Cer. E.	N 2 B Cameron Apts.	Long Island, N. Y.
Lucke, E. J.	So., Ind. E.	125 Turlington, 4222	
Lumsden, J. C.	Jun., Ch. E.	1415 Hillsboro	Raleigh, N. C.
Lynch, R. G., Jr.	Fr., Ag.	716 Devereaux	Raleigh, N. C.
McBride, R. H.	Fr., Arch. E.	1901 Glenwood Ave.	Cheraw, S. C.
McCarson, L. C., Jr.	Fr., Ch. E.	323 Alexander, 4186	Durham, N. C.
McCormick, L. T.	Fr., Ag.	116 Turlington, 4213	McDonald, N. C.
McDermott, J. M.	Jun., M. E.	324 Syme, 3588	Vass, N. C.
McDonald, P. H., Jr.	Jun., G. E.	206 Berry, 4313	Carthage, N. C.
McDuffie, J. W.	Jun., Ag. E.	618 W. Jones	Raleigh, N. C.
McGinnis, D. H.	Fr., Ch. E.	124 Turlington, 4221,	Kings Mountain, N. C.
McGlamery, N. V.	Grad., Dairy Mfg.	104 4th, 3114	W. Asheville, N. C.
McGugan, W. J. B.	Fr., Aero. E.	327 Turlington, 4289	Fayetteville, N. C.
McGuire, T. A.	So., E. E.	Andrew Johnson Hotel	Norton, N. C.
McIntyre, C. D.	So., E. E.	128 Syme, 3582	
McKenna, H. A., Jr.	Fr., Spec. (Tex.)	127 Hawthorn Rd.	Catonsville, Md.
McKenzie, H. L.	So., An. Prod.	117 Syme, 3517	Laurinburg, N. C.
McKenzie, M. L.	Fr., E. E.	321 Becton, 3789	Cordova, N. C.
McKenzie, J. R.	Spec.	301 Syme, 3565	High Point, N. C.
McKethan, K. A.	Jun., Ag. Ed.	128 Becton, 3728	Raeford, N. C.
McLean, C. S.	So., E. E.	120 Alexander, 4116	Belmont, N. C.
McLean, J. J.	Fr., Tex.	321 Alexander, 4184	Greensboro, N. C.
MacMillan, D. P.	So., Arch. E.	18½ Horne	Fayetteville, N. C.
McNair, G. C., Jr.	Fr., E. E.	306 Berry, 4326	Winston-Salem, N. C.
McNair, J. O.	Fr., Tex.	137 Alexander, 4129	Hartsville, S. C.
MacNeill, J. L.	So., C. E.	215 Alexander, 4144	Maxton, N. C.
McNeill, P. J.	Fr., C. E.	328 Bagwell, 3394	Sanford, N. C.
McPherson, W. T.	So., Ag.	318 Bagwell, 3384	Mebane, N. C.
Maddrey, J. T., Jr.	Fr., E. E.	106 E. Peace	Raleigh, N. C.
Magill, H. F.	Fr., E. E.	203 Turlington, 4234	Concord, N. C.
Maiden, H. L.	Fr., M. E.	215 Syme, 3547	Guilford College, N. C.
Malpass, G. D.	Fr., C. E.	104 Turlington, 4203	Whiteville, N. C.
Mangen, A. R.	Grad., Exp. Stat.	208 4th, 3126	
Mangum, G. D., Jr.	Fr., Ind. E.	407 N. Blount	Raleigh, N. C.
Mangum, J. O.	Fr., Tex.	320 Alexander, 4183	Wake Forest, N. C.
Mangum, W. E.	Fr., M. E.	3010 Hillsboro	Raleigh, N. C.
Manning, F. P.	Fr., M. E.	222 Syme, 3554	Ponzer, N. C.
Mariani, Alfred	Fr., Aero. E.	331 Turlington, 4293	New London, Conn.
Marion, H. F.	Fr., For.	312 Alexander, 4175	Dobson, N. C.

Name	*Classification*	*School Address Dorm. Box No. or St. No.*	*Home Address*
Marshall, J. G.	Fr., M. E.	316 Turlington, 4278	Glenrock, N. J.
Marshall, J. T.	Fr., Tex.	123 Alexander, 4118	Gastonia, N. C.
Martin, Grady Allen	So., Ag.	228 Syme, 3560	Stony Point, N. C.
Martin, Grover Adlai, Jr.	So., M. E.	120 Turlington, 4217	Smithfield, N. C.
Mason, D. D.	Grad., Agron.	37 Bagwell Ave.	
Massey, P. H., Jr.	Jun., Veg. Gard.	100 Horne St.	Louisburg, N. C.
Masten, F. D.	Fr., M. E.	240 Turlington, 4265	Winston Salem, N. C.
Masters, J. F.	So., Cer. E.	103 Chamberlain	Winston-Salem, N. C.
Mauney, J. R.	Fr., Ag.	235 Alex., 4162	Kings Mountain, N. C.
May, J. M.	So., M. E.	409 Chamberlain	
May, M. C.	Sen., Tex. Mfg.		
Mayer, C. S.	Fr., C. E.	219 Turlington, 4247	Columbus, Ohio
Meares, M. A.	Jun., M. E.	221 Syme, 3553	Chadbourn, N. C.
Meares, S. H.	Fr., Aero. E.	331 Alexander, 4194	Mullins, S. C.
Melton, Tom	So., E. E.	110 Syme, 3510	Bostic, N. C.
Messick, J. E.	So., Cer. E.	313 Syme, 3577	Charlotte, N. C.
Meyer, T. J.	So., M. E.	16 Dixie Trail	Charlotte, N. C.
Mickey, J. S.	Fr., E. E.	328 Alex., 4191	Winston-Salem, N. C.
Migaleddi, P. D.	Fr., Gen. E.	319 Turlington, 4281	Bradford, Pa.
Miller, G. W.	Fr., Ag.	208 New Bern Ave.	Cana, N. C.
Miller, J. F.	So., Tex.	124 Syme, 3524	Belmont, N. C.
Miller, M. T.	Sen., C. E.	106 Horne	North Wilkesboro, N. C.
Miller, R. O.	Jun., Tex. Mfg.	116 Woodburn, 5294St.Col.St.	Concord, N. C.
Mills, E. R.	Fr., E. E.	226 Syme, 3558	W. Asheville, N. C.
Millsaps, T. C.	So., Aero. E.	120 Syme, 3520	Asheboro, N. C.
Mintz, K. M.	Fr., Ag.	213 Turlington, 4241	
Mitchell, Alex	Fr., Ind. E.	1425 Park Dr.	Bloomfield, N. J.
Mitchell, Jerry, Jr.	So., Ind. E.	2407 Stafford Ave.	Charleston, W. Va.
Mitchell, J. D.	Fr., Tex.	320 Turlington, 4282	Aulander, N. C.
Mitchell, L. H.	Fr., C. E.	7 Syme, 3603	Kenly, N. C.
Mitchell, R. P., Jr.	So., C. E.	5 Berry, 4338	Reidsville, N. C.
Mize, W. T.	Fr. E. E.	340 Alexander, 4199	Red Springs, N. C.
Mohorn, V. I., Jr.	Spec.	317 Bagwell, 3383	Littleton, N. C.
Montague, E. B.	So., C. E.	320 Syme, 3584	Goldsboro, N. C.
Moore, B. D., Jr.	So., E. E.	313 Alexander, 4176	Stokes, N. C.
Moore, G. T.	Fr., C. E.	314 Syme, 3578	Oxford, N. C.
Moore, J. E.	So., Aero. E.	Rt. 4, Raleigh	
Moore, J. F.	Jun., M. E.	110 E. Lane	Kannapolis, N. C.
Moore, J. L.		3218 Bedford Ave.	Raleigh, N. C.
Moore, M. S.	Fr., For.	238 Turlington, 4263	Fayetteville, N. C.
Moore, T. W.	Fr., Ch. E.	321 Turlington, 4283	Charlotte, N. C.
Moore, W. S.	Aud.	Agron. Dept.	
Moran, P. E., Jr.	Fr., Tex.	312 Berry, 4332	Danville, Va.
Morgan, C. R.	Fr., Aero. E.	303 Turlington, 4268	Fairmont, N. C.
Morgan, C. W.	Fr., Tex.	Apex, N. C.	Biltmore, N. C.
Morgan, W. M.	Fr., M. E.	26 Becton, 3826	Fayetteville, N. C.
Morris, S. J., Jr.	So., C. E.	137 Gardner St.	Raleigh, N. C.
Morris, S. R., Jr.	Fr., Aero. E.	338 Turlington, 4297	Charlotte, N. C.
Morris, W. F., Jr.	Grad., M. E.	20 Logan Court	Raleigh, N. C.
Morrison, E. B.	Jun., M. E.	329 Alexander, 4192	Charlotte, N. C.
Morrison, F. D.	Sen., Entom.	312 Turlington, 4274	Sewickley, Pa.
Morrison, W. D. Jr.	So., Aero. E.	306 Gold, 3230	Asheville, N. C.
Morrow, J. M.	Fr., Tex.	302 Turlington, 4267	Albemarle, N. C.
Morton, W. J.	Fr., Tex.	201 Berry, 4308	Salisbury, N. C.
Moseley, C. D.	Fr., Ch. E.	233 Turlington, 4260	Winston-Salem, N. C.
Moser, W. D.	So., Tex.	2101 Glenwood Ave.	Burlington, N. C.
Mullen, B. F., Jr.	Fr., Tex.	235 Turlington, 4261	Winston-Salem, N. C.
Mullineaux, J. B., Jr.	So., Tex.	Sir Walter Hotel	New Bern, N. C.
Mullis, R. E.	Fr., For.	231 Turlington, 4259	Monroe, N. C.

Name	*Classification*	*School Address Dorm. Box No. or St. No.*	*Home Address*
Murray, Ralph	Fr., Tex.	19 Syme, 3615	Henderson, N. C.
Musselwhite, S. S.	Fr., E. E.	105 Berry, 4305	Morven, N. C.
Myatt, R. L., Jr.	Fr., C. E.	114 E. Jones	Raleigh, N. C.
Naimer, Jack	Jun., Tex. Mfg.	319 Turlington, 4281	Bronx, N. Y.
Nance, A. G.	Fr., C. E.	13 Syme, 3609	Wrightsville Beach, N. C.
Nance, E. T., Jr.	Sen., Occ. I. & G.	536 E. Martin	Raleigh, N. C.
Nance, H. L.	Fr., Gen. E.	303 Alex., 4169	Winston-Salem, N. C.
Nanney, J. R., Jr.	Fr., Tex.	111 Syme, 3511	Spindale, N. C.
Narron, Jarley	Fr., Ag.	223 Becton, 3757	Kenly, N. C.
Nelson, T. F.	Fr., Gen. E.	332 Becton, 3800	North Wilkesboro, N. C.
Nelson, W. E.	Fr., E. E.	136 Turlington, 4231	Robersonville, N. C.
Newell, W. A.	Jun., Tex. Mfg.	407 N. Wilmington	Jewett City, Conn.
Nickel, R. F.	So., Aero. E.	2 Gym	Greenville, N. C.
Nintzel, C. H.	Fr., Tex.	211 Alexander, 4140	Flushing, N. Y.
Nipper, P. W., Jr.	Jun., Tex. Mgt.	206 Berry, 4313	Lowell, N. C.
Nissen, P. N.	Fr., Aero. E.	207 Gold, 3219	Forest City, N. C.
Niswonger, G. B.	Fr., E. E.	A-2-A Cameron Ct. Apts.	Raleigh, N. C.
Noe, J. T.	Fr., Cer. E.	131 Becton, 3731	Wilson, N. C.
Norris, C. E.	Fr., M. E.	305 Alexander, 4171	Salisbury, N. C.
Northcott, C .A., Jr.	Fr., Aero. E.	1821 St. Marys	Norfolk, Va.
Oakley, E. G.	Fr., C. E.	340 Turlington, 4298	Gastonia, N. C.
O'Briant, R. W.	So., Cer. E.	215 Alexander, 4144	Rowland, N. C.
O'Brient, W. L.	Fr., E. E.	306 Welch, 3254	Durham, N. C.
Odell, J. K. P.	So., Tex.	303 Syme, 3567	Concord, N. C.
Oettinger, Albert	Fr., E. E.	315 Alexander, 4178	Wilson, N. C.
Ogden, H. A.	So., Aero. E.	213 Syme, 3545	Charlotte, N. C.
Olive, Floyd	Grad., Agron.	2804 Hillsboro	McKanie, Ark.
O'Neal, J. F.	So., Ch. E.	17 Syme, 3613	Middlesex, N. C.
Osborne, G. E.	Fr., Ag.	207 Berry, 4314	High Point, N. C.
Osborne, W. M.	Grad., Ag. Ed.	Trlr. Camp, 5363 St. Col. Sta.	Buffaloe, S. C.
Owens, H. V.	Fr., Tex.	329 Syme, 3593	Charlotte, N. C.
Padgett, C. B.	Grad., Ag. Ed.	301 4th, 3127	Ellenboro, N. C.
Page, Eula M. (Mrs.)	Grad., Ag. Ch.	134 New Bern Ave.	Raleigh, N. C.
Palmer, O. A., Jr.	So., E. E.	3401 Hillsboro	Raleigh, N. C.
Parker, C. E.	Jun., An. Prod.	1 Syme, 3597	Cherryville, N. C.
Parker, C. M.	Fr., Ag.	222 Syme, 3554	Pinetown, N. C.
Parker, G. H.	Fr., Ch. E.	220 Turlington, 4248	Asheville, N. C.
Parker, P. G., Jr.	Jun., Tex. Mfg.	131 Alexander, 4126	Erwin, N. C.
Parrish, W. K.	Fr., Gen. E.	613 E. Hargett	Raleigh, N. C.
Partin, B. K.	So., Ch. E.	231 Syme, 3563	Chadbourn, N. C.
Partin, C. A.	Jun., An. Prod.	528 E. Jones	Louisburg, N. C.
Pate, C. R.	Fr., C. E.	720 N. Boylan	Raleigh, N. C.
Patterson, C. S., Jr.	So., Tex.	10 Field House	Cranford, N. J.
Patton, A. J.	So., Aero. E.	21 Syme, 3617	Franklin, N. C.
Patton, T. W.	So., For.	328 Turlington, 4290	Asheville, N. C.
Payne, G. N., Jr.	Fr., M. E.	225 Turlington, 4253	Charlotte, N. C.
Payne, J. M.	Jun., Arch.	240 Turlington, 4265	Clayton, N. C.
Peacock, R. L.	Fr., Tex.	19 Syme, 3615	Jacksonville, N. C.
Peacock, W. R.	So., Aero. E.	Field House	Newport News, Va.
Pearce, D. E.	Jun., M. E.	3415 Hillsboro	Raleigh, N. C.
Pearce, P. D.	Fr., Cer. E.	14 Syme, 3610	Zebulon, N. C.
Pearce, R. H.	So., Ind. E.	2217 Oxford Rd.	Raleigh, N. C.
Pearson, V. B.	Fr., Ag.	2704 Bedford Ave.	Spring Hope, N. C.
Peck, T. D., Jr.	Fr., Tex.	8 Syme, 3604	Raleigh, N. C.
Peebles, G. E.	Fr., E. E.	2211 Hope	Oxford, N. C.
Pendleton, A. L., Jr.	So., Aero. E.	106 Syme, 3506	Elizabeth City, N. C.
Penland, J. A.	So., M. E.	135 Turlington, 4230	Swannanoa, N. C.

Name	*Classification*	*School Address Dorm. Box No. or St. No.*	*Home Address*
Peoples, L. J.	So., For.	204 Gold, 3216	Oxford, N. C.
Perry, C. A.	So., Cer. E.	508 E. Whitaker Mill Rd.	Raleigh, N. C.
Perry, N. L.	Fr., E. E.	121 Turlington, 4218	Loranger, La.
Peterson, H. B.	So., Tex.	104 Turlington, 4203	Brunswick, N. C.
Pharr, J. M.	Jun., Tex. C. & D.	303 Syme, 3567	Concord, N. C.
Phelps, R. L.	Fr., E. E.	217 Syme, 3549	Clemmons, N. C.
Phillips, C. A.	So., Gen. E.	615 N. Blount St.	Raleigh, N. C.
Phillips, F. C., Jr.	Jun., Ind. E.	20 Ferndell	Burlington, N. C.
Pi, Ting-Wen	Grad., E. E.	202 4th, 3120	Mukden, China
Pierce, D. J.	Fr., Aero. E.	120 Turlington, 4217	Norfolk, Va.
Pigue, R. W. E.	Sen., Tex. Mgt.	107 Syme, 3507	Hamlet, N. C.
Pike, P. P.	Fr., M. E.	225 Alexander, 4154	High Point, N. C.
Pittman, H. B., Jr.	Fr., Ch. E.	129 Syme, 3529	Snow Hill, N. C.
Pitzer, A. K.	Fr., Ag.	316 Turlington, 4278	Portsmouth, Ohio
Polk, R. E., Jr.	Fr., E. E.	220 Turlington, 4248	Charlotte, N. C.
Pollock, J. G.	Grad., Ag. Ed.	208 4th, 3126	Gatesville, N. C.
Poole, R. J., Jr.	Fr., E. E.	311 Bagwell, 3377	East Spencer, N. C.
Poole, S. F.	So., For.	209 Becton, 3741	Greensboro, N. C.
Porter, O. B., Jr.	Fr., Ag. E.	27 Becton, 3826	Sanford, N. C.
Porter, R. S.	Fr., Tex.	313 Turlington, 4275	Charlotte, N. C.
Poteet, G. E.	Sen., M. E.	116 Woodburn Rd.	Sylva, N. C.
Potter, L. B.	So., Ch. E.	122 Turlington, 4219	Charlotte, N. C.
Pou, E. S.	So., C. E.	2207 White Oak	Raleigh, N. C.
Powell, A. W.	Jun., Tex. Ch. & D.	1616 Hillsboro	Miami, Fla.
Powell, E. C.	So., Arch. E.	228 Bagwell, 3360	Canton, N. C.
Powell, H. W. Jr.	So., M. E.	223 Forest Rd.	Orlando, Fla.
Powell, W. H., Jr.	Fr., C. E.	314 Syme, 3578	Oxford, N. C.
Pratt, G. H.	Jun., Ind. E.	2412 Hillsboro, 5565	Arlington, Mass.
Preisinger, G. T.	So., Ch. E.	113 Turlington, 4210	Badin, N. C.
Pressly, R. W.	Fr., Arch. E.	124 Alexander, 4119	Charlotte, N. C.
Price, W. E.	So., W. C. & M.	Mansion Park Hotel	Selma, N. C.
Price, W. J.	Fr., Aero. E.	204 Syme, 3536	Whitakers, N. C.
Prillaman, H. A.	Fr., For	311 Turlington, 4273	Martinsville, Va.
Pruden, W. H., Jr.	Fr., M. E.	322 Becton, 3790	Roanoke Rapids, N. C.
Queen, J. A., Jr.	So., Aero. E.	220 Syme, 3552	Lawndale, N.C.
Quinn, G. S.	Fr., C. E.	308 Syme, 3572	Warsaw, N. C.
Rabb, R. L.	Jun., An. Prod.	120 Woodburn Rd.	Lenoir, N. C.
Radford, J. E.	Fr., Gen. E.	115 Syme, 3515	Caroleen, N. C.
Ragan, D. C.	Fr., Tex.	210 Berry, 4317	Gastonia, N. C.
Ragsdale, R. E., Jr.	Fr., Occ. I. & G.	Fuquay Springs,	Fuquay Springs, N. C.
Ragsdale, W. D., Jr.	Fr., Ch. E.	322 Syme, 3586	Murphy, N. C.
Ramsey, C. L.	So., Gen. E.	102 Welch, 3238	Crumpler, W. Va.
Randolph, G. M.	Fr., Ch. E.		Asheville, N. C.
Ranze, H. G.	So., Tex.	Trailer Camp, 5323	Elizabethton, Tenn.
Rankin, J. H., Jr.	Fr., C. E.	335 Turlington, 4295	Mooresville, N. C.
Raphael, A. M.	Spec.	1406 Hillsboro St.	Brooklyn, N. C.
Rattelade, G. J.	Fr., Gen. E.	112 Turlington, 4209	Durham, N. C.
Ratts, J. L.	So., E. E.	103 Turlington, 4202	Fayetteville, N. C.
Rawls, H. D.	Grad., Ru. Soc.	G2, Co. Club Homes	Raleigh, N. C.
Ray, J. T.	Fr., M. E.	230 E. North	Raleigh, N. C.
Ray, P. D.	So., Tex.	125 Chamberlain	Raleigh, N. C.
Ray, R. L.	Spec.	324 Turlington, 4286	Fort Mill, S. C.
Ray, W. B.	Fr., C. E.	P. O. Box 5422	Lawsonville, N. C.
Rayford, R. B.	Fr., Ag.	201 Alexander, 4133	Newton Grove, N. C.
Reavis, C. N., Jr.	Fr., M. E.	3203 Hillsboro	Raleigh, N. C.
Reece, J. A.	Fr., C. E.	209 Watauga, 3027	Cramerton, N. C.
Reed, R. W.	So., E. E.	133 Bagwell, 3401	Forest City, N. C.
Reeder, H. E.	Fr., E. E.	233 Turlington, 4260	Central Falls, N. C.

Name	*Classification*	*School Address Dorm. Box No. or St. No.*	*Home Address*
Register, G. B.	Fr., C. E.	212 Alexander, 4141	Magnolia, N. C.
Reid, D. F., Jr.	So., M. E.	309 Berry, 4329	Charlotte, N. C.
Reid, H. K.	So., E. E.	131 Turlington, 4227	Charlotte, N. C.
Reid, J. W. B.	Fr., Tex.	338 Alexander, 4198	Greensboro, N. C.
Reid, W. W.	Fr., Ag.	911 Newbern	Vienna, Md.
Reiter, M. L.	Fr., Tex.	313 Turlington, 4275	Ellenville, N. Y.
Reynolds, V. H.	Sen., An. Prod.	109 Alexander, 4107	Kinston, N. C.
Rhodes, O. L., Jr.	Fr., E. E.	12 Syme, 3608	Wilmington, N. C.
Rhyne, M. J.	Fr., M. E.	4 Berry, 4337	Dallas, N. C.
Rice, F. H.	Fr., C. E.	321 Syme, 3585	Whitney, S. C.
Rice, W. K.	Fr., Tex.	Hillsboro Hotel	Charlotte, N. C.
Richardson, D. M.	Fr., Aero. E.	Swain Apts., N. Person	Raleigh, N. C.
Richardson, P. E.	Jun., Ch. E.	225 Syme, 3557	Greensboro, N. C.
Richardson, S. N.	Fr., C. E.	230 Syme, 3562	Norfolk, Va.
Rickenbaker, L. H., Jr.	So., E. E.	338 Turlington, 4297	Charlotte, N. C.
Rickman, W. R.	Fr., For.	229 Turlington, 4257	Franklin, N. C.
Riddle, R. T.	Fr., M. E.	315 Turlington, 4277	Greenville, N. C.
Rierson, W. H.	So., Arch. E.	103 Chamberlain	Winston-Salem, N. C.
Riggsbee, J. A., Jr.	Fr., M. E.	326 Turlington, 4288	Durham, N. C.
Riley, L. W., Jr.	So., Gen. E.	102 Turlington, 4201	Burlington, N. C.
Ripley, R. W.	Fr., Arch. E.	223 Alexander, 4152	Durham, N. C.
Ritchie, J. H.	Fr., M. E.		Faith, N. C.
Ritchey, W. A.	Fr., Aero. E.	1429 Wake Forest Rd.	Raleigh, N. C.
Rizzo, P. M.	Fr., M. E.	214 Turlington, 4242	Cranford, N. J.
Roberts, C. M.	Sen., Tex. Mfg.	2513 Clark Ave.	
Roberts, R. D.	Fr., M. E.	220 Syme, 3552	Kannapolis, N. C.
Robertson, H. L.	So., C. E.	130 Syme, 3530	Washington, N. C.
Robertson, L. C. Jr.	Fr., M. E.	214 Turlington, 4242	Hampton, Va.
Robertson, R. J.	Sen., For.	321 Alexander, 4184	Takoma Park, Md.
Robertson, W. C.	So., Aero. E.	107 Watauga, 3007	Goldsboro, N. C.
Robinson, G. H.	Grad., Agron. Soils	306 4th, 3132	Carbon, Ind.
Robinson, H. F.	Grad., Agron. Soils	2510 Vanderbilt	Bandana, N. C.
Robinson, R. F.	Jun., Dairy Mfg.	Trailer Park	Gastonia, N. C.
Robinson, W. R.	Jun., Ag. Ed.	1525 Carr	Hickory, N. C.
Robinson, W. T.	Fr., M. E.	318 Turlington, 4280	Monroe, N. C.
Rodgers, N. P.	Fr., Aero. E.	2510 Vanderbilt	Charlotte, N. C.
Rogers, L. T., Jr.	Fr., C. E.	13 Syme, 3609	Wrightsville Beach, N. C.
Rogers, R. S.	Fr., Ag.	106 Syme, 3506	Roxboro, N. C.
Rollins, J. A.	Spec., Ag.	216 N. Person	Portsmouth, Va.
Rollings, R. S.	Jun., C. E.	337 Alexander, 4197	Pinewood, S. C.
Rolston, J. A.	Grad., M. E.	521 Dixie Trail	Raleigh, N. C.
Rose, S. C.	Fr., For.	329 Turlington, 4291	Fayetteville, N. C.
Ross, O. H., Jr.	Fr., Ag.	231 Turlington, 4259	Burlington, N. C.
Ross, R. N.	Fr., Tex.	104 Becton, 3707	Washington, N. C.
Roth, I.	Fr., M. E.	212 Gold, 3224	Charlotte, N. C.
Rouse, D. E.	So., E. E.	210 Welch, 3258	Rose Hill, N. C.
Royals, T. M.	Fr., Tex.	209 Turlington, 4238	Dunn, N. C.
Rumple, W. G., Jr.	So., M. E.	119 Syme, 3519	Concord, N. C.
Ruppe, C. E.	So., C. E.	120 Syme, 3520	Fayetteville, N. C.
Russell, J. F.	Fr., Ch. E.	113 Turlington, 4210	Badin, N. C.
Russum, C. W.	Fr., C. E.	Fuquay Springs	Fuquay Springs, N. C.
Sampson, J. E.	Sen., Tex. Mfg.	123 Alexander, 4118,	Guilford College, N. C.
Sanderson, J. E.	Jun., An. Prod.	114 Watauga, 3014	Four Oaks, N. C.
Santore, C. A.	Grad., Tex.	2628 Fairview Rd.	Raleigh, N. C.
Santorum, Bruno	Fr., Ag. Ed.	Box 5374	Tire Hill, Pa.
Satterfield, G. G.	Fr., Gen. E.	102 Turlington, 4201	Burlington, N. C.
Scarsbrook, C. E.	Grad., Agron.	308 4th, 3134	Selma, Ala.
Schaffer, F. R. L.	Fr., Ag. E.	208 New Bern Ave.	Raleigh, N. C.
Scherr, H. M.	Sen., Tex. Mfg.	209 Alexander, 4139	Asheville, N. C.

Name	*Classification*	*School Address Dorm. Box No. or St. No.*	*Home Address*
Schnedl, E. F.	Fr., C. E.	Trailer Camp	Charlotte, N. C.
Schnedl, R. B.	Fr., Arch. E.	215 Turlington, 4243	Charlotte, N. C.
Scholz, Ruby	Aud.	15 Henderson	Frankfort, Kans.
Schomberg, J. C.	Fr., Cer. E.	213 Becton, 3747	Savannah, Ga.
Scroggs, G., Jr.	Fr., Ag.	213 Turlington, 4241	Roaring River, N. C.
Self, E. H., Jr.	Fr., Aero. E.	233 Alexander, 4161	Winston-Salem, N. C.
Selle, C.	Fr., Ag. Ed.	2718 Cambridge Rd.	Raleigh, N. C.
Sessoms, J. C., Jr.	Fr., Aero. E.	114 Turlington, 4211	Ahoskie, N. C.
Setzer, R. A.	Fr., E. E.	118-C Turlington, 4215	Maiden, N. C.
Setzer, T. V.	Fr., E. E.	205 Syme, 3537	Greensboro, N. C.
Sharber, J. L.	Fr., E. E.	215 Turlington, 4243	Norfolk, Va.
Shaw, M. N., Jr.	Fr., Gen. E.	213 Alexander, 4142	Leaksville, N. C.
Sheffield, C. E.	Fr., E. E.	204 Bagwell, 3336	Asheboro, N. C.
Shelden, H. W.	Fr., C. E.	313 Alexander, 4176	Tullahoma, Tenn.
Sherrill, T. H.	Fr., Tex.	232 Syme, 3564	Rutherfordton, N. C.
Shive, L. A.	So., Ch. E.	210 Berry, 4317	Gastonia, N. C.
Shoaf, H. E.	Fr., Gen. E.	217 Syme, 3549	Winston-Salem, N. C.
Shu, Chao	Grad., E. E.	205 4th, 3123	Shanghai, China
Shuford, C. L., Jr.	So., Aero. E.	329 Syme, 3593	Arden, N. C.
Shumaker, R. K.	Jun., Aero. E.	10 W. Dixie Dr.	Raleigh, N. C.
Sides, J. E.	Fr., Ch. E.	122 Becton, 3722	Statesville, N. C.
Silberman, R. S.	Fr., Tex.	227 Turlington, 4255	New York, N. Y.
Siler, R. L.	Fr., M. E.	105 Turlington, 4204	Siler City, N. C.
Sills, M. W.	Fr., Ag.	1306 Mordecai Dr.	Lawrenceburg, Tenn.
Simmons, W. L.	Fr., M. E.	133 Alexander, 4127	Stoneville, N. C.
Simmons, W. T.	Fr., E. E.	615 Hillsboro	Lillington, N. C.
Sink, L. G., Jr.	Jun., Agron. (F. C.)	108 Syme, 3508	Lexington, N. C.
Sites, N. W.	Fr., E. E.	217 Becton, 3751	Morven, N. C.
Sizemore, F. M.	So., Tex.	122 Turlington, 4219	Concord, N. C.
Skipper, H. E.	Fr., Ch. E.	304 Turlington, 4269	Mt. Holly, N. C.
Slaughter, J. H., Jr.	So., Tex.	1825 St. Marys St.	Raleigh, N. C.
Smart, J. W.	Fr., E. E.	Western Blvd.	Raleigh, N. C.
Smiley, F. R.	Fr., C. E.	102 Alexander, 4102	Wilson, N. C.
Smith, C. W.	Fr., M. E.	213 Becton, 3747	Greenwood, S. C.
Smith, Edwin Butler	Fr., Aero. E.	120 Alexander, 4116	Gastonia, N. C.
Smith, E. M.	Fr., Arch. E.	221 Alexander, 4150	Rocky Mount, N. C.
Smith, Horace	So., E. E.	1213 Pearce St.	Raleigh, N. C.
Smith, J. T.	So., Aero. E.	204 Turlington, 4235	High Point, N. C.
Smith, L. C.	Fr., Ch. E.	17 Syme, 3613	New Hill, N. C.
Smith, N. N.	So., M. E.	129 Turlington, 4226	Belhaven, N. C.
Smith, R. J., Jr.,	So., M. E.	12 Horne St.	Hillsboro, N. C.
Smith, R. V.	Fr., M. E.	335 Turlington, 4295,	Black Mountain, N. C.
Smith, W. J.	Fr., E. E.	312 Syme, 3576	Dunn, N. C.
Smithwick, R. W., Jr.	Sen., Ch. E.	302 Syme, 3566	Louisburg, N. C.
Solomon, W. A.	Fr., Ag.	214 Watauga, 3032	Raleigh, N. C.
Sowers, F. C.	So., Tex.	113 Syme, 3513	Salisbury, N. C.
Sowers, R. G.	Fr., Aero. E.	223 Syme, 3555	Linwood, N. C.
Sox, P. H.	Jun., Knit.	Cary, N. C.	Cary, N. C.
Sparkman, R. C.	Fr., Arch.	12 Syme, 3608	Wilmington, N. C.
Speight, T. S.	Fr., Ag.	8 Becton, 3810	Windsor, N. C.
Spencer, J. G.	Fr., Tex.	Field House	Raleigh, N. C.
Spencer, R. L.	Fr., E. E.	228 Turlington, 4256	Hamlet, N. C.
Spring, M. M., Jr.	Fr., Arch. E.		Miami, Fla.
Sprinkle, T. S.	Fr., E. E.	11 Becton, 3813	
Stafford, C. L., Jr.	Fr., Tex.	301 Turlington, 4266	Greensboro, N. C.
Stafford, J. K.	So., Ag.	217 Turlington, 4245	Summerfield, N. C.
Stallings, C. M.	Fr., E. E.	228 Turlington, 4256	Enfield, N. C.
Stallings, L. R.	So., Aero. E.	305 Berry, 4325	Jamesville, N. C.

Name	*Classification*	*School Address Dorm. Box No. or St. No.*	*Home Address*
Stallings, Y. M.	Fr., C. E.	318 Alexander, 4181	Kinston, N. C.
Stancil, D. H.	Fr., Ag.	Garner, R.F.D. 1	Garner, N. C.
Starnes, W. F., Jr.	So., Tex.	333 Turlington, 4298	Cherryville, N. C.
Stephenson, E. F.	Fr., E. E.	111 Turlington, 4208	Pendleton, N. C.
Stewart, C. P.	Fr., Ag. Ed.	317 Syme, 3581	Broadway, N. C.
Stewart, R. P.	Fr., Tex.	Field House	Raleigh, N. C.
Stilwell, D. B., Jr.	Jun., Tex. Mfg.	218 Turlington, 4246	Charlotte, N. C.
Stilwell, J. R.	Fr., Ch. E.	2 Syme, 3598	Misenheimer, N. C.
Stinson, H. E.	So., Ag.	207 Syme, 3539	Boonville, N. C.
Stone, C. H.	Jun., Arch. E.	216 Turlington, 4244	Mt. Gilead, N. C.
Stone, G. A.	Fr., M. E.	235 Turlington, 4261	Axton, Va.
Stone, G. E.	So., E. E.	216 Turlington, 4244	Mt. Gilead, N. C.
Stone, J. E., Jr.	Fr., M. E.	1800 Park Dr.	Raleigh, N. C.
Stone, J. P.	Fr., Ch. E.	516 Holden St.	Raleigh, N. C.
Stowe, R. A.	Ch. E.	225 Alexander, 4154	Belmont, N. C.
Stripling, S. A.	So., Arch. E.	2408 Fairview Rd.	Pinehurst, N. C.
Stuart, N. B., Jr.	Fr., M. E.	Route 4, Raleigh	Raleigh, N. C.
Stulee, A. A.	Fr., Tex.	338 Turlington, 4297	Daisy, Tenn.
Stump, J. M.	Fr., E. E.	107 Turlington, 4205, Nathan's Creek, N. C.	
Su, Yen Pin	Grad., Tex. Mfg.	201 4th, 3119	
Suggs, A. W.	Fr., Tex.	309 Alexander, 4173	Raleigh, N. C.
Sutherland, J. G.	Grad., Ag. Ec.	520 Gardner	Peachland, N. C.
Sutton, T. H.	Spec.	223 Turlington, 4251	Fayetteville, N. C.
Swangin, M. L.	Fr., Tex.	325 Turlington, 4287	Burlington, N. C.
Swann, T. W.	So., E. E.	209 Gold, 3221	Statesville, N. C.
Sykes, W. J. A.	Fr., Tex.	17 Enterprise	Statesville, N. C.
Tanenbaum, N. E.	Fr., Ch. E.	316 Bagwell, 3382	New York, N. Y.
Tarleton, Brice	So., E. E.	16 Maiden Lane	Monroe, N. C.
Tart, C. V.	Grad., Ag. Ed.	Box 5031	Raleigh, N. C.
Taylor, H. D., Jr.	Fr., Arch. E.	420 St. Marys	Raleigh, N. C.
Taylor, K. M.	Fr., C. E.	302 Becton, 3770	Clinton, N. C.
Taylor, M. K.	Jun., Aero. Eng.	736 Nash Drive	Raleigh, N. C.
Taylor, R. B.	Fr., Ag.	111 Alexander, 4108	Wilson, N. C.
Taylor, R. H.	Fr., Ch. E.	129 Syme, 3529	Snow Hill, N. C.
Taylor, W. H.	Fr., Ch. E.	224 N. Person	Raleigh, N. C.
Taylor, W. P.	Sen., Tex. Mfg.	2411½ Everett, 1755	Woodland, N. C.
Teague, A. P.	Fr., Aero. E.	307 Syme, 3571	Taylorsville, N. C.
Teague, E. W.	So., Tex.	309 Alexander, 4173	
Teague, R. T., Jr.	So., Ag. Ch.	121 Syme, 3521	Newland, N. C.
Teague, S. P.	Grad., Ag. Ed.	105 4th, 3115	Shelby, N. C.
Teal, J. B.	So., E. E.	2514 Clark	McFarlan, N. C.
Teiser, E. S.	Jun., Arch. E.	204 Symes, 3536	Henderson, N. C.
Temple, L. M.	So., C. E.	119 Syme, 3519	Sanford, N. C.
Thomas, A. W.	Jun., Cer. E.	1907 Glenwood	Farmville, N. C.
Thomas, C. H.	So., M. E.	201 Turlington, 4232	Washington, N. C.
Thomas, J. W.	Fr., Ind. E.	324 Syme, 3588	Cameron, N. C.
Thomas, W. E.	Fr., C. E.	105 Turlington, 4204	Greensboro, N. C.
Thomasson, W. J., Jr.	Fr., M. E.	135 Alexander, 4128	Mount Holly, N. C.
Thompson, G. P.	Fr., Tex.	322 Alexander, 4185	Burlington, N. C.
Thompson, H. A.	Fr., M. E.	400 Kinsey	Raleigh, N. C.
Thompson, R. L., Jr.	Fr., Aero. E.	10 Enterprise	Hallsboro, N. C.
Thornburg, W. H.	Sen., An. Prod.	116 Becton, 3716	Candor, N. C.
Thornton, W. L.	Fr., E. E.	210 Syme, 3542	Reidsville, N. C.
Thurman, E. B.	So., M. E.	702 N. Blount	Raleigh, N. C.
Todd, C. C.	Spec.	B-3 Raleigh Apts.	Raleigh, N. C.
Tolson, V. A.	Fr., E. E.	127 Turlnigton, 4224	Newport, N. C.
Tomlinson, J. D.	So., Tex.	320 Turlington, 4282	Wilson, N. C.
Tongue, Benjamin	Fr., M. E.	Wake Forest Rd.	Raleigh, N. C.

Name	*Classification*	*School Address Dorm. Box No. or St. No.*	*Home Address*
Tooly, Sidney Anne	Jun., W. & D.		Belhaven, N. C.
Tooly, W. B.	So., E. E.	326 Syme, 3590	Belhaven, N. C.
Townsend, David, Jr.	So., Ag.	233 Bagwell, 3365	Rowland, N. C.
Treptow, R. L.	Fr., M. E.	224 Alexander, 4153	Wilmington, N. C.
Trueblood, B. W.	Fr., M. E.	224 Turlington, 4252	Lumberton, N. C.
Tucker, L. N.	Grad., Ag. Ch.	G-4, Raleigh Apts.	Danville, Va.
Tucker, M. G.	Fr., M. E.	108 Watauga, 3008	Monroe, N. C.
Tunstall, Shelton	So., Ag.	202 Gold, 3214	Hester, N. C.
Turbeville, J. R.	Sen., E. E.	333 Alexander, 4195	Atlanta, Ga.
Turnage, A. C., Jr.	Fr., E. E.	318 Alexander, 4181	Farmville, N. C.
Turner, M. H.	Fr., Ag. E.	202 Syme, 3534	Greenville, N. C.
Turner, P. P., Jr.	Grad., Cer. E.	207 4th, 3125	Greensboro, N. C.
Underwood, K. W.	Jun., Ag. Ed.	712 Brooks Ave.	Raleigh, N. C.
Usry, S. B.	Fr., C. E.	207 Becton, 3741	Sumter, S. C.
Uzzell, T. R., Jr.	So., Ch. E.	315 Alexander, 4178	Wilson, N. C.
VanNortwick, D. M.	Fr., Aero. E.	112 Turlington, 4209	Robersonville, N. C.
Vanstory, R. M.	Fr., M. E.	111 Turlington, 4208	Fayetteville, N. C.
Vaughan, A. B.	Fr., M. E.	212 Syme, 3544	Chesterfield, S. C.
Venable, E. R.	Fr., E. E.	223 Alexander, 4152	White Plains, N. C.
Venie, Theodore	Fr., Tex.	320 Turlington, 4282	Bronx, N. Y.
Venters, C. H.	Fr., C. E.	221 Turlington, 4249	New Bern, N. C.
Vereen, J. J., Jr.	Fr., C. E.	7 Syme, 3603	Wilmington, N. C.
Vereen, W. J.	Fr., M. E.	1514 Fairview	Raleigh, N. C.
Vernon, B. G.	Fr., Tex.	312 Berry, 4332	Blanch, N. C.
Vester, C. W.	Fr., Ag.	118 Turlington, 4215	Phoebus, Va.
Viverette, H. J.	Fr., Occ. I. & G.	1324 Mordecai Dr.	Raleigh, N. C.
Wade, D. O., Jr.	Fr., Gen. E.	607 W. North	Raleigh, N. C.
Wadsworth, E. T., Jr.	So., E. E.	221 Turlington, 4259	Myrtle Beach, S. C.
Wagner, J. E.	Fr., Aero. E.	231 Bagwell, 3363	Tarboro, N. C.
Wagoner, F. H.	Jun., An. Prod.	217 Turlington, 4245	Gibsonville, N. C.
Wagoner, W. J.	Fr., Aero. E.	233 Alexander, 4161,	Winston-Salem, N. C.
Wakeley, J. T.	Grad., Ru. Soc.		Ames, Iowa
Walker, G. F., Jr.	So., Tex.	301 Syme, 3565	Spring Hope, N. C.
Walker, G. W.	Jun., An. Prod.	103 Welch, 3239	Bryson City, N. C.
Wall, H. B.	Fr., For.	2238 Circle Dr.	Raleigh, N. C.
Wallace, W. D.	Fr., M. E.	314 Alex., 4177	Wrightsville Beach, N. C.
Waller, C. C.	Fr., C. E.	320 Bagwell, 3376	Durham, N. C.
Walser, R. F.	So., C. E.	1206 Park Drive	Greensboro, N. C.
Ward, B. P.	Fr., E. E.	307 Turlington, 4271	Bladenboro, N. C.
Ward, M. H.	Fr., Arch.	2514 Clark	Charlotte, N. C.
Ward, Wm. Seaton,	Fr., E. E.	210 Woodburn	Raleigh, N. C.
Warren, C. L.	So., Ag. Ed.	104 Syme, 3504	Kinston, N. C.
Warren, D. H.	Fr., Ch. E.	315 Alexander, 4178	Wilson, N. C.
Warren, J. H.	Fr., Aero. E.	2303½ Clark	Wilson, N. C.
Warren, Edw., Jr.	So., Tex.	311 Becton, 3779	Greensboro, N. C.
Watson, A. B.	Sen., M. E.	26 Becton, 3826	Fayetteville, N. C.
Watson, C. K.	Grad., Tex.	Textile School	Red Springs, N. C.
Watson, D. M.	So., Gen. E.	1621 Bickett	Raleigh, N. C.
Watson, G. I.	Jun., An. Prod.	130 Syme, 3540	Lake Landing, N. C.
Watson, J. A.	Jun., Ag. Ed.	105 Berry, 4305	Morven, N. C.
Watts, S. S.	Fr., E. E.	133 Bagwell, 3401	Taylorsville, N. C.
Waynick, A. P.	So., Tex.	124 Syme, 3524	Greensboro, N. C.
Weatherman, R. C., Jr.	Fr., Aero. E.	328 Alexander, 4191,	Winston-Salem, N. C.
Weathers, W. D.	Fr., Tex.	3128 Stanhope	Raleigh, N. C.
Weaver, D. S., Jr.	Grad., Ch. E.	2620 Kilgore	Raleigh, N. C.
Weaver, F. S.	So., C. E.	211 Syme, 3542	Williamston, N. C.

Name	*Classification*	*School Address Dorm. Box No. or St. No.*	*Home Address*
Webb, C. H.	Fr., Ag.	229 Turlington, 4257	Salisbury, N. C.
Webb, R. C.	Fr., Tex.	Cary, N. C.	Roanoke Rapids, N. C.
Webb, W. E.	Fr., C. E.	203 Alexander, 4135	Raeford, N. C.
Wedding, J. C.	Fr., Geol. E.	607 Glenwood	Raleigh, N. C.
Weeks, H. T.	Fr., Ag.	212 Gold, 3224	Whitakers, N. C.
Weeks, J. W.	So., Ag.	Rt. 4, Raleigh, N. C.	Enfield, N. C.
Welch, J. R.	Fr., For.	Cary, N. C.	Roanoke Rapids, N. C.
Wells, E. C.	Fr., Ag.	108 Gold, 3208	Watha, N. C.
West, C. I.	Fr., M. E.	110 Turlington, 4207	Tarboro, N. C.
West, Fred	So., For.	2008 Hillsboro	Burlington, N. C.
West, W. W.	Spec.	209 Turlington, 4238	Kernersville, N. C.
Westmoreland, R. C.	Fr., Ag.	129 Turlington, 4226	Troutmans, N. C.
Whitehurst, J. R.	Fr., E. E.	219 Alexander, 4148	Charlotte, N. C.
Whisnant, C. E.	So., Ag. Ed.	317 Syme, 3581	Polkville, N. C.
Whitaker, J. F.	Grad., M. E.	24 Syme, 3620	Shelby, N. C.
Whitfield, F. E.	So., For.	328 Turlington, 4290	Greensboro, N. C.
Whitfield, F. L.	Fr., Ag.	337 Turlington, 4296	Goldsboro, N. C.
Whitley, H. L.	Fr., Aero. E.	208 Berry, 4315	Fremont, N. C.
Whitley, S. D.	Grad., Ag. Ed.	105 4th, 3115	High Point, N. C.
Whitley, W. P., Jr.	Fr., M. E.	2102 Reaves Dr.	Raleigh, N. C.
Whitsett, W. L.	Fr., E. E.	2 Berry, 4335	Reidsville, N. C.
Whitt, T. W.	Fr., C. E.	238 Turlington, 4263	Richmond, Va.
Whittington, R. B.	Fr., E. E.	117 Syme, 3517	Snow Hill, N. C.
Wilder, W. A.	Fr., Ag. E.	14 Syme, 3610	Spring Hope, N. C.
Wilkerson, R. T.	So., Ag.	202 Turlington, 4233	Raleigh, N. C.
Wilkie, E. M., Jr.	So., Arch. E.	221 Turlington, 4249	Gulf, N. C.
Wilkins, George	Fr., Ch. E.	121 Becton, 3721	Hendersonville, N. C.
Wilkinson, S. R.	So., M. E.	129 Turlington, 4226	Belhaven, N. C.
Williams, C. G.	Fr., M. E.	206 Welch, 3254	Chapel Hill, N. C.
Williams, C. T.	Fr., C. E.	333 Turlington, 4294	Elizabeth City, N. C.
Williams, D. H.	Fr., M. E.	221 Alexander, 4150	Rocky Mount, N. C.
Williams, D. M.	Fr., Ag.	Box 5723, Sta. Col. Sta.	Raleigh, N. C.
Williams, E. E., Jr.	Fr., E. E.	319 Alexander, 4182	Charlotte, N. C.
Williams, H. A., Jr.	So., M. E.	2513 Clark	Spencer, N. C.
Williams, H. B.	Fr., Arch.	112 Alexander, 4109	Wilson, N. C.
Williams, H. W.	Fr., C. E.	202 Berry, 4309	Charlotte, N. C.
Williams, James Charles	Fr., Ag.	324 Syme, 3588	Chinquapin, N. C.
Williamson, H. R.	Fr., E. E.	306 Bagwell, 3372	Henderson, N. C.
Willis, T. G.	So., M. E.	2902 Everett	Raleigh, N. C.
Wilson, A. D.	Fr., For.	1720 Chester Rd.	Franklin, N. C.
Wilson, E. R.	Spec.	109 N. East	Franklinville, N. C.
Wilson, H. H., Jr.	Fr., Cer. E.	840 W. Morgan	Raleigh, N. C.
Wilson, J. M.	Fr., M. E.	101 Watauga, 3001	Roanoke Rapids, N. C.
Wilson, R. F.	Fr., C. E.	238 Alexander, 4164	Tarboro, N. C.
Wilson, T. E.	Sen., Entom.	117 Turlington, 4214	Charlotte, N. C.
Winstead, J. S.	So., Aero. E.	219 Ashe Ave.	Macclesfield, N. C.
Winston, E. H.	Sen., Tex. Mgt.	325 Alexander, 4188	New York, N. Y.
Withrow, J. D.	So., C. E.	123 Turlington, 4220	Yadkinville, N. C.
Withrow, W. M.	Fr., E. E.	123 Turlington, 4220	Forest City, N. C.
Witmer, Jacqueline A.	Fr., Occ. I. & G.	508 Dixie Trail	Raleigh, N. C.
Witmer, Rose Marie	Fr., Occ. I. & G.	508 Dixie Trail	Raleigh, N. C.
Wolher, C. J.	Fr., Ch. E.	209 Berry, 4316	Roanoke Rapids, N. C.
Womble, D. A.	So., Ind. E.	236 S. Boylan	Raleigh, N. C.
Wood, J. W., Jr.	Fr., Tex.	313 Turlington, 4275	Charlotte, N. C.
Woodall, W. L.	Jun., M. E.	314 Watauga, 3050	Smithfield, N. C.
Woodard, J. P.	Grad., Agron. (Soils)	308 4th, 3134	
Woodard, W. W.	Sen., Aero. E.	310 Syme, 3574	Winterville, N. C.
Woodside, T. F.	Jun., E. E.	1720 Hillsboro	Charlotte, N. C.
Woodson, H. S., Jr.	Fr., Aero. E.	2412 Hillsboro	Shelby, N. C.

Name	*Classification*	*School Address Dorm. Box No. or St. No.*	*Home Address*
Woodward, D. M.	Fr., E. E.	1312 Glenwood	Raleigh, N. C.
Wooten, R. M., Jr.	So., For.	229 Turlington, 4257	Clarkton, N. C.
Wooters, J. T.	Jun., E. E.	327 Syme, 3591	Kinston, N. C.
Worth, W. A.	So., Tex.	111 Bagwell, 3311	Jefferson, N. C.
Wright, D. R., Jr.	Sen., Ch. E.	316 Alexander, 4179	Wilkesboro, N. C.
Wright, L. P.	Fr., Ag.	105 Alexander, 4105	Laurinburg, N. C.
Wright, P. S.	Fr., M. E.	311 Welch, 3271	Sylacauga, Ala.
Wright, W. K.	Fr., M. E.	207 Alexander, 4138	Zebulon, N. C.
Wylie, W. O.	So., Tex.	3515 Neil St.	Charlotte, N. C.
Wyrick, G. G.	Fr., Aero. E.	112 Turlington, 4209	Greensboro, N. C.
Yarborough, C. E.	Fr., M. E.	130 Alexander, 4125	Caroleen, N. C.
Yates, R. A.	Fr., C. E.	221 Syme, 3553	Chadbourn, N. C.
Yeh, Loh-Tsiang	Grad., E. E.	203 4th, 3121	Chekiang, China
Yoder, W. M.	Fr., M. E.	222 Alexander, 4151	Charlotte, N. C.
York, T. L.	Sen., Veg. Gard.	127 Alexander, 4122	Waynesville, N. C.
Yorke, J. M., Jr.	Fr., E. E.	301 Berry, 4321	Tampa, Fla.
Young, F. E., Jr.	Fr., M. E.	309 Syme, 3573	Oxford, N. C.
Young, I. C.	Fr., C. E.	106 Bagwell, 3306	Durham, N. C.
Young, J. P.	Spec.	316 Alexander, 4179	Macon, N. C.
Younger, R. K.	Fr., E. E.	318 Turlington, 4280	Burlington, N. C.
Younger, W. B.	Fr., Tex.	1103 Filmore	Burlington, N. C.

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1945-1946

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ADDENDA TO FACULTY DIRECTOR

1945-1946

*Ailor, William Henry, Jr.—Instr., Ch. Dept. Ext. 266.
Residence: 1701 St. Mary's St. Telephone 2-2989.
*Anderson, Richard L.—Assoc. Prof., Inst. of Stat. 106-B Patterson. Ext. 313.
Residence: Dixie Trail. Telephone 2-3157.
*Baker, Stewart R.—Instr., Math. Dept. 205 Tompkins. Telephone 226.
Residence: 2525 Country Club Homes. Telephone 9816.
*Brown, Mrs. Anna Catherine—Steno., Dean of Students. 101 Holladay Hall. Ext. 215.
Residence: 2226 Hillsboro St. Telephone 3-1539.
*Bullard, Denise—Sec., Athletic Dept. Gym. Ext. 2-2407.
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*Bunn, James Charles Instr., Math. Dept. 206 Tompkins. Ext. 226.
Residence: 2830 Barmettler. Telephone 2-2313.
Caddell, Elinor G.—Sec., Soc. Dept. 201 Peele. Ext. 231.
Residence: 205 Ashe Ave. Telephone 2-2598.
*Cameron, Joseph M. Grad., Sp. Sta.
Residence: 312 Chamberlain St. Telephone 2-3086.
Campbell, Lucille—Sec., Dairy Ext. Office. 103 Polk. Ext. 277.
208 Ashe Ave. Telephone 3-3048.
*Carroll, Charles L., Jr. Instr., Math. Dept. 205 Tompkins. Ext. 226.
Residence: 3010 Cambridge Rd. Telephone 2-2332.
*Clayton, Maurice H. Instr., Math. Dept. 205 Tompkins. Ext. 226.
Residence: 28 Shepherd St. Telephone 7088.
*Cochran, W. G. Assoc. Director, Inst. of Stat. 106-B Patterson. Ext. 313.
Residence: 1003 Brooks Ave.
Coiro, J. J.—1/Sgt., Mil. Dept. Armory. Ext. 232.
Residence: Halifax Court Apts.
Coleman, Lonnie W.—Instr., English Dept. 3 Pullen. Ext. 237.
Residence: 405 Gardner St. Telephone 3-3269.
*Collins, Mrs. E. E.—Instr., Chem. Dept. 109 Withers. Ext. 265.
Residence: 2713 Rosedale Ave. Telephone 9715.
Cox, Gertrude M.—Director, Inst. of Stat. 105-B Patterson. Ext. 313.
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Residence: 1615½ Hillsboro St. Telephone 3-1796.
*Crysler, Richard D.—Grad. Asst., Inst. of Stat. 107 Patterson. Ext. 313.
Residence: Box 5514, State Col. Sta., Raleigh.
Daniel, Charles W.—Asst. Ext. Ed., Publications. Ext. 279.
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Residence: 901 Canterbury Rr. Telephone 3-2536.
*Ferguson, J. C.—Ag. Eng., Ext. Spec., Ag. Eng. Dept. 312 Ricks. Ext. 274.
Residence: Dixie Trail Ext. Telephone 5888.
*Gee, Robert E., Jr.—Instr., Chem. Dept. 203 Withers. Ext. 265.
Residence: 1003 W. Peace St. Telephone 8753.
Green, J. L. Pfc., Mil. Dept. Ext. 233.
Residence: 3015 Ruffin St.

---

* Married.

Hamm, John M.—Director Wesley Foundation. 3 Pullen. Ext. 3-1861.
Residence:
*Harding: Reuben M. Grad. Asst., Inst. of Stat. 113 19-11.
Residence: Clayton, N. C. Telephone Clayton 290-6.
*Hern, Walden M. (Mrs.) Steno., Basic Div. 105 Peele. Ext. 223.
Residence: College Trailer Camp, Box 5654.
Hiers, Doris R. Technical Asst., Inst of Stat. 101 Patterson. Ext. 313.
Residence: 10 N. Boylan Ave. Telephone 2-0984.
Hodgens, Jean—Steno., Alumni Office. 202 Holladay. Ext. 252.
Residence: A-1 Wilmont Apts. Telephone 6364.
*Honeycutt, Ruth Ball—Instr., Math. Dept. 205 Tompkins. Ext. 226.
Residence: 408½ Dixie Trail. Telephone 5198.
*Ingram, William P.—Inst., Chem. Dept. 322 Withers. Ext. 265.
Residence: 608 Rosemont St. Telephone 2-1752.
*Jones, Gloria Steno., Inst. of Stat. 105-A Patterson. Ext. 313.
Residence: 445 N. Wilmington St. Telephone 5736.
Jones, Martha Dabney—Instr., English Dept. 3 Pullen. Ext. 237.
Residence: 123 W. Park Dr.
Jordan, Donald F. Instr., Dept. of Math. 205 Tompkins. Ext. 226.
Residence: 113 Syme Hall.
King, Betsy—Sec., Dept. of Modern Languages. 205 Peele. Ext. 231.
Residence: 1710 Park Dr. Telephone 2-1387.
*Lee, Robert E. Instr., Math. Dept. 205 Tompkins. Ext. 226.
Residence: 2718 Bedford Ave.
*Levine, Jack—Assoc. Prof., Math. 206 Tompkins. Ext. 226.
Residence: 2510 Clark. Telephone 3-2800.
*Lewis, Charles Frederic—Instr., Math. Dept. 208 Tompkins. Ext. 226.
Residence: Clayton, N. C.
*Little, Charles H., Jr.—Instr., Dept. of Math. 223 Tompkins. Ext. 228.
Residence: 620 E. Whitaker Mill Rd. Telephone 2,043.
*Lucas, H. L.—Assoc. Prof., Inst. of Stat. 107 Patterson. Ext. 313.
Residence: 107 Shepherd St. Telephone 2-2095.
*McAdams, Charles K.—Asst. Sec., YMCA. "Y." Ext. 7184.
Residence: YMCA.
McAllister, John A.—Instr., Dept. of English. 3 Pullen. Ext. 237.
Residence: 408 Dixie Trail. Telephone 3-2053.
*McMillan, Malcolm C. Instr., History. 114 Peele. Ext. 200.
Residence: Chapel Hill, N. C.
*Manning, Mrs. John A.—Chem., Lab. Instr. 109 Withers.
Residence: 1517 Cherokee Dr. Telephone 5190.
Marek, J. W.—Instr., Chem. 317 Withers. Ext. 265.
Residence: 913 W. Johnson. Telephone 2-2453.
*Mason, David D.—Grad., Asst., Inst. of Stat. 102 Patterson. Ext. 313.
Residence: 107 Bagwell Ave. Telephone 2-0991.
*Monroe, Robert J. Instr., Inst. of Stat. 103-A Patterson. Ext. 313.
Residence: 7 Dixie Trail.
*Nelson, John G.—Lt. Col., Signal Corps, Mil. Dept. Ext. 233.
Residence: 3103 Eton Rd. Telephone 3-3826.
*Nolstad, Arnold R. Instr., Math. Dept. 205 Tompkins. Ext. 226.
Residence: 1406 Hillsboro St. Telephone 3-1328.
*Norment, Mrs. Helen H.—Steno., History & Political Sci. 102 Peele. Ext. 200.
Residence: 314 Forest Rd.
Palmer, Robert L. M/Sgt. Mil. Dept. Ext. 233.
Residence: Louisburg Rd. Telephone 6893.
Partrick, Theodore Hall, III—$nstr., Math. Dept. 205 Tompkins. Ext. 226.
Residence: A-301 Boylan Apts. Telephone 2-2146.
*Peters, Charles Edward Instr., Math. Dept. 205 Tompkins. Ext. 226.
Residence: Western Blvd.

---

* Married.

Peterson, D. M.—$nstr., Math. Dept. 220 Tompkins. Ext. 228.
Residence: 1718 Park Dr. Telephone 2-0713.
Petree, Howard A. Instr., Math. Det. 209 Tompkins. Ext. 226.
Residence: 303 Hillcrest Rd. Telephone 8126.
*Porter, Robert A.—Grad., Exp. Stat. 107 Patterson. Ext. 313.
Residence: 109 Chamberlain St. Telephone 23512.
*Pou, John W.—Ext. Dairyman, Dairy Ext. 104 Polk. Ext. 277.
Residence: 3218 Bedford Ave. Telephone 3-1985.
Prestridge, George N.—M/Sgt., Mil. Dept.
Residence: D-2-A Cameron Ct. Apts. Telephone 3-1524.
*Purdy, Lewis W.—Instr., Chem. Dept. 115 Withers. Ext. 265.
Residence: Hillsboro Hotel. Telehone 5876.
*Robinson, Harold F. Asst. Prof., Inst. of Stat. 103-A Patterson. Ext. 313.
Residence: 402 Horne St. Telephone 2-2082.
*Bolston, J. Albert—Instr., Math. Dept. 205 Tompkins. Ext. 226.
Residence: 521 Dixie Trail. Telephone 4736.
*Roseman, Harvey R.—Training Officer, Vet. Adm. Tompkins. Ext. 6123.
Residence: Sec. A-302 Boylan Apts. Telephone 3-3696.
Ryan, Jas. H.—Instr., Chem. Dept. 110 Withers. Ext. 265.
Residence: 913 W. Johnson. Telephone 2-2453.
Residence: 913 W. Johnson. Telephone 2-2453.
Sadler, Thomas W., Jr.—Vet. Acc. Business. 105 Holladay. Ext. 295.
Residence: 408 N. Bloodworth. Telephone 5386.
*Salmela, Henry—Grad., Expt. Stat. 107 Patterson. Ext. 313.
Residence: 215 Alexander.
*Shackford, James Atkins—Instr., English Dept. 3 Pullen. Ext. 237.
Residence: Rolesville, N. C.
*Skipper, Charles B.—Acting Chief, Vet. Adm. 112 Tompkins. Ext. 6123.
Residence: 211 Blount St. Telephone 9144.
*Slicer, Douglas H. Instr., English Dept. 3 Pullen. Ext. 237.
Residence: 1700 Arlington St. Telephone 2-0875.
*Suffridge, R. L.—Line Coach, Athletic Gym. Fieldhouse. Ext. 6934.
Fieldhouse.
*Suiter, Lois M.—Instr., English Dept. 3 Pullen. Ext. 237.
Residence: 408 Stacy St. Telephone 6855.
Taylor, J. D.—Exec. Sec., State Committee, Vets. Ed. 111 Tompkins. Ext. 325.
Residence: 2019 St. Mary's St. Telephone 2-1791.
*Verlinden, F. J. Grad., Asst., Inst. of Stat. 113 19-11.
Residence: 3414 Hillsboro St. Telephone 7814.
*Wakeley, Jay T.—Grad. Asst., Inst. of Stat. 107 Patterson. Ext. 313.
Residence: Box 5362 College Sta. Telephone 4455.
*Wall, J. Graham Instr., Math. Dept. 205 Tompkins. Ext. 226.
Residence: Benson, N. C.
*Warren, Mrs. Edward, Jr. Clerk, Basic Div. 105 Peele. Ext. 223.
Residence: 2303½ Clark Ave. Telephone 8083.
*Warrick, W. C.—Agr. Eng. Ext. Spec., Ag. Eng. Dept. 312 Ricks. Ext. 274.
Residence: 302 Vance Apts. Telephone 3-2819.
*Watts, N. B.—Asst. Sec., YMCA. "Y." Ext. 7184.
Residence: 902 W. South St. Telephone 8563.
Whittington, Rosalie J. Sec., V. A. Guidance Center. 112 Tompkins. Ext. 6123.
Residence: 1115 Hillsboro St. Telephone 6250.
*Wiggins, Mrs. Geraldine Sec., Phys. Ed. Gym. Ext. 218.
Residence: C 303 Boylan Apts. Telephone 2-2580.
*Williams, Mrs. Eleanor L.—Instr., English Dept. 2 Pullen. Ext. 237.
Residence: Cary, N. C. Telephone 2573.

---

* Married.

*Wolfowitz, J. Assoc Prof., Inst. of Stat. 105-A Patterson. Ext. 313.
Residence: Box 594, Chapel Hill, N. C.

*Woodhouse, Charles B. Asst. Ag., U. S. Fish & Wildlife Serc. 202 Zool. Ext. 261.
Residence: Louisburg Rd. Telephone 5295.

*Vann, Hugh G. Mgr., Greenhouse. Greenhouse. Ext. 240.
Residence: 211 Furches St. Telephone 7842.

---

* Married.

ADDENDA TO STUDENT DIRECTORY

1945-1946

Name	*Classification and Curriculum*	*Dorm. Room & Box No. or Street No.*	*Home Address*
Abernethy, L. L., Jr.	Fr., E. E.	308 Gold, 3232	Charlotte, N. C.
Addison, B. J.	Fr., M. E.	123 Turlington, 4220	Reidsville, N. C.
Ailor, W. H., Jr.	Jr., Ch. E.	1701 St. Mary's St.	Tampa, Fla.
Akduman, H.	Spec.	5 Becton, 3807	Talas-Kayser, Turkey
Alexander, H. G.	So., Tex.	102 Gold, 3202	Charlotte, N. C.
Alexander, J. B.	So., M. E.	102 Gold, 3202	Charlotte, N. C.
Alexander, J. L.	Fr., Geol. E.	103 Welch, 3239	Rocky Mount, N. C.
Alexander, S. C.	Fr., Gen. E.	213 Berry, 4320	Charlotte, N. C.
Allen, B. H.	Sen., Ag. Ed.	113 Alexander, 4110	Matthews, N. C.
Allen, G. W., Jr.	So., Tex.	Field House	Kings Mountain, N. C.
Allen, H. A., Jr.	Jr., Gen. E.	104 Alexander, 4104	Charlote, N. C.
Allen, H. L.	Fr., For.	324 Syme, 3588	Shelby, N. C.
Alston, C. N., Jr.	Fr., M. E.	102 Watauga, 3002	Concord, N. C.
Andrews, C. A., Jr.	Fr., M. E.	101 Becton, 3701	Durham, N. C.
Anthony, C. G.	Fr., Tex.	306 Watauga, 3042	Shelby, N. C.
Arey, J. C.	Spec., Tex.	219 Becton, 3753	Salisbury, N. C.
Arlow, A. R.	Fr., E. E.	333 Turlington, 4294	Brooklyn, N. Y.
Armacost, R. B.	Spec., Ag.	3414 Hillsboro St., 5402	Kansas City, Mo.
Arnstein, F. F.	Sr., An. Prod.	10 Enterprise St.	Fletcher, N. C.
Arrington, S. M.	So., Ag.	307 Welch, 3267	Waynesville, N. C.
Arrowood, D. R.	So., Tex.	621 W. Jones St.	Concord, N. C.
Austin, W. I.	Fr., Ag.	529 N. Person St.	Monroe, N. C.
Aydlett, A. L.	Grad. Ru. Soc.	1403 Brooks Ave.	Raleigh, N. C.
Bailey, I. M., Jr.	Fr., C. E.	E-2 Grosvenor Gardens Apt.	Raleigh, N. C.
Baker, B. W.	Spec., Ag.	Dairy Exp. Farm, 5127	Greenville, N. C.
Ballou, G. W.	Fr., M. E.	Withdrew March 29, 1946	
Barber, C. E.	Fr., M. E.	225 Syme, 3557	Greensboro, N. C.
Barbour, O. R.	Fr., C. E.	Withdrew	Four Oaks, N. C.
Barnhill, H. L.	Fr., E. E.	323 Becton, 3791	Wilmington, N. C.
Barnwell, W. H.	Jr., W. & D.	911 Williamson Dr.	Whitmire, S. C.
Barton, E. I.	So., Geol. E.	103 Alexander, 4103	Alexandria, Va.
Baskerville, J. C., Jr.	Fr., For.	Trailer, 5142	Lenoir, N. C.
Baugh, E. B., Jr.	Fr., Arch. E.	205 Syme, 3537	Greensboro, N. C.
Beaman, B. E.	So., M. E.	102 Turlington, 4201	Greensboro, N. C.
Beamon, E. B.	Fr., E. E.	3414 Hillsboro St.	Goldsboro, N. C.
Bean, R. F.	Fr., M. E.	333 Becton, 3801	East Bend, N. C.
Beard, J. A.	So., Ag.	322 Oakwood Ave.	Huntersville, N. C.
Bender, E. L., Jr.	Fr., Tex.	16 Becton, 3818	New Bern, N. C.
Bender, J. H.	Fr., E. E.	333 Turlington, 4294	Brooklyn, N. Y.
Bennett, F. M.	Sr., Poul. Sc.	301 Syme, 3565	Raleigh, N. C.
Benoit, F. C.	Fr., Tex.	339 Turlington, 4298	Kankakee, Ill.
Bergeaux, P. J.	Grad., Agron.	17 W. Dixie Dr.	Raleigh, N. C.
Bishop, C. W.	Fr., E. E.	321 Becton, 3789	Walnut Cove, N. C.
Blackmon, M. L.	Fr., Tex.	132 Syme, 3532	Erwin, N. C.
Blackwood, H. F., Jr.	So., Ch. E.	42, Trailer Camp	Winston-Salem, N. C.
Bland, W. M., Jr.	Sr., Ae. F.	212 Watauga, 3030	Portsmouth, Va.
Blevins, C. B.	Fr., C. E.	315 Becton, 3783	Dobson, N. C.
Bodner, H. L.	Sr., M. E.	2320 Oxford Rd.	Philadelphia, Pa.
Boltrek, W.	Fr., E. E.	310 Becton, 3778	Arverne, L. I., N. Y.
Boney, W. J.	Sr., Arch. E.	103 Chamberlain St.	Wilmington, N. C.
Boone, J. B.	Grad., Ag. Ed.	621 W. James St.	Clinton, N. C.
Boone, W. D., Jr.	So., Arch.	1308 Glenwood Ave.	Winton, N. C.
Bost, J. E.	So., Ae. E.	103 Syme, 3503	Eagle Springs, N. C.

Name	*Classification and Curriculum*	*Dorm. Room & Box No. or Street No.*	*Home Address*
Boyer, W. W.	Jr., C. E.	137 Alexander, 4129	Goldsboro, N. C.
Boyette, R. C.	So., For.	No. 6 Dixie Trail, 5512	Arlington, Va.
Boylan, W. M.	Sr., M. E.	16 Becton, 3818	New Bern, N. C.
Brady, N. C.	Grad., Agron. (Soils)	114 Ricks Hall	Raleigh, N. C.
Brantley, W. T.	Fr., Ae. E.	208 Berry, 4315	Fayetteville, N. C.
Bridge, M. P.	Grad. Agron.	407 Gardner St.	Raleigh, N. C.
Britt, B. T.	Fr., For.	221 Turlington, 4249	Murfreesboro, N. C.
Britt, W. A.	Fr., Gen. E.	111 Welch, 3247	Wendell, N. C.
Brock, B. A.	Mr., M. E.	107 Alexander, 4106	Rocky Mount, N. C.
Brockman, J. S.	Fr., E. E.	803 N. Blount	Raleigh, N. C.
Brooks, B. B.	So., C. E.	306 Becton, 3774	Hickory, N. C.
Brooks, J. C.	Fr., E. E.	1021 W. South St.	Grimesland, N. C.
Brooks, P. A.	Spec. Ch. E.	108 Watauga, 3008	Blowing Rock, N. C.
Brooks, W. J.	So., Ch. E.	215 Watauga, 3033	Red Springs, N. C.
Browder, H. M., Jr.	Jr., Ch. E.	1009 W. Peace St.	Weldon, N. C.
Brown, A. R.	Fr., E. E.	106 Watauga, 3006	Roanoke Rapids, N. C.
Brown, B. M., Jr.	Fr., C. E.	128 Alexander, 4123	Charlotte, N. C.
Brown, E. L.	So., Tex.	10 Enterprise St.	Chadbourn, N. C.
Brown, F. C.	Fr., Ag.	621 W. Jones St.	
Brown, Joe, Jr.	Fr., E. E.	121 Bagwell, 3321	Shelby, N. C.
Brown, J. E.	So., E. E.	132 Woodburn Rd.	Snow Hill, N. C.
Brown, L. W.	Sr., Tex. Mfg.	2226 Hillsboro St.	Chadbourn, N. C.
Brown, W. T.	Jr., Tex. C. & D.	130 Alexander, 4125	Charlote, N. C.
Brran, J. M., Jr.	Sr., Tex. Mgt.	F-11 Raleigh Apts.	Burlington, N. C.
Budnow, Seaman	Fr., For.	329 Turlington, 4291	Schenectady, N. Y.
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Burkhardt, C. F.	Fr., Tex.	327 Turlington, 4289	Cleveland, Ohio
Burnham, W. R.	So., Ind. E.	304 Brooks Ave.	El Cajon, Calif.
Burris, R. C.	Fr., C. & M.	128 Turlington, 4225	Asheville, N. C.
Burrus, C. P.	Fr., Ag. Ed.	Rt. No. 3, Box 134	Newton, N. C.
Burt, H. B.	Fr., M. E.	218 N. McDowell St.	Raleigh, N. C.
Butler, E. J.	Fr., C. E.	3 Becton, 3805	Windsor, N. C.
Byerly, O. V.	Sr., Tex. Mgt.	108 Syme, 3508	Lexington, N. C.
Cacella, A. F.	Sr., Ch. E.	317 Watauga, 3053	New Bedford, Mass.
Caggiano, V. D.	Jr., E. E.	1500 Wake Forest Rd.	Bronx, N. Y.
Caldwell, K. E., Jr.	So., Tex.	130 Alexander, 4125	Concord, N. C.
Calikkocaoglu, M. M.	Spec.	304 Becton, 3772	Istanbul, Turkey
Campbell, J. D.	Fr., M. E.	301 Becton, 3769	Greensboro, N. C.
Campbell, W. C.	Sr., For.	315½ Oakwood Ave.	Staunton, Va.
Carlson, C. A.	Grad. Agron. (Soils)	103 4th, 3113	Cincinnati, Ohio
Carlton, J. W.	Fr., E. E.	335 Turlington, 4295	Arlington Farms, Va.
Carnes, J. E., Jr.	Fr., Arch. E.	311 Becton, 3779	Charlotte, N. C.
Carpenter, D. C.	Fr., Arch. E.	311 Becton, 3779	Charlotte, N. C.
Carpenter, T. B.	So., M. E.	212 Gold, 3224	Greensboro, N. C.
Carroll, J. P.	Fr., Ag.	514 N. Bloodworth St.	Raleigh, N. C.
Cartner, Sam	Sr., Ag. Ed.	309 Syme, 3573	Mocksville, N. C.
Cartwright, W. H., Jr.	So., C. E.	107 Syme, 3507	Elizabeth City, N. C.
Case, H. H.	So., M. E.	201 Turlington, 4232	Morristown, Tenn.
Cashion, A. T., Jr.	Fr., M. E.	318 Morrison Ave.	Asheville, N. C.
Cates, D. M.	Fr., Tex.	112 Gold, 3212	Greensboro, N. C.
Cato, R. E.	Fr., C. E.	312 Becton, 3780	Charlotte, N. C.
Chandler, J. D.	Fr., Aero. E.	2610 Wade St.	Blackstone, Va.
Chapin, H. T.	Jr., C. E.	No. 15 Trailer Camp	Lillington, N. C.
Chapman, P. W.	Jr., E. E.	306 Becton, 3774	Maiden, N. C.
Charnock, F. P.	So., M. E.	203 Alexander, 4135	Asheville, N. C.
Chase, W. C.	Fr., Ag. E.	205 Forest Rd.	Raleigh, N. C.
Cherry, A. R.	Fr., E. E.	333 Bagwell, 3399	Washington, N. C.

Name	*Classification and Curriculum*	*Dorm. Room & Box No. or Street No.*	*Home Address*
Chesnutt, H. F.	Sr., Ch. E.	120 Becton, 3520	Clinton, N. C.
Childs, C. W.	Fr., M. E.	207 Watauga, 3025	Lincolnton, N. C.
Chinnis, J. D.	Fr., M. E.	320 Becton, 3788	Wilmington, N. C.
Clark, E. R.	Fr., E. E.	332 Bagwell, 3398	White Bear Lake, Minn.
Clark, E. T.	Fr., Arch. E.	207 Gold, 3219	Oxford, N. C.
Clark, J. C.	Fr., Aero. E.	111 Gold, 3211	Swepsonville, N. C.
Cline, A. A.	Fr., Ch. E.	203 Alexander, 4135	Taylorsville, N. C.
Coble, E. R.	Fr., Arch.	10 Berry, 4343	Monroe, N. C.
Coggins, J. J.	Fr., M. E.	610 Holt St.	Winston-Salem, N. C.
Coleman, N. T.	Grad. Agron. (Soils)	110 Gold, 3210	Turbeville, W. Va.
Collins, F. T., Jr.	Jr., E. E.	306 Becton, 3774	Forest City, N. C.
Combs, W. H., Jr	So., Gen. E.	203 Alexander, 4135	Leaksville, N. C.
Concool, N. J.	Fr., Tex.	327 Turlington, 4289	Brooklyn, N. Y.
Cook, I. N.	Fr., Aero. E.	408½ Dixie Trail	Martinsville, Va.
Cook, R. N.	So., C. E.	102 Berry, 4302	Graham, N. C.
Cooke, G. C., Jr.	Fr., Aero. E.	306 Berry, 4326	Winston-Salem, N. C.
Cooley, D. H.	Fr., E. E.	711 E. Franklin St.	Suffolk, Va.
Cordell, J. E.	Fr., Aero. E.	226 Alexander, 4155	Asheville, N. C.
Corley, Clifton, Jr.	Fr., Tex.	3414 Hillsboro St.	New York, N. Y.
Corriher, M. B., Jr.	Fr., E. E.	330 Bagwell, 3396	Mooresville, N. C.
Corriher, T. F., Jr.	Fr., M. E.	204 Watauga, 3022	nLicolnton, N. C.
Coulter, J. L.	Fr., Ch. E.	116 Forest Rd.	Newton, N. C.
Covil, J. M.	Fr., C. E.	12 Syme, 3608	Wilmington, N. C.
Coward, J. B.	Fr., E. E.	226 Alexander, 4155	Asheville, N. C.
Cox, J. T.	Fr., Tex.	13 W. Dixie Dr.	Raleigh, N. C.
Cox, Margaret C.	Fr., Occ. & G.	5548	
Craft, A. C.	So., For.	131 Alexander, 4126	Wilmington, N. C.
Craft, S. L., Jr.	Fr., M. E.	115 Bagwell, 3315	Winston-Salem, N. C.
Craig, H. Y.	Fr., M. E.	103 Becton, 3703	Stanley, N. C.
Credle, S. V.	Fr., C. E.	206 Gold, 3218	Durham, N. C.
Crocker, Wm.	So., C. E.	1012 Vance St.	Raleigh, N. C.
Croom, P. L.	Fr., Ag.	2711 Kilgore Ave.	La Grange, N. C.
Crouch, F. E.	Fr., M. E.	219 Bagwell, 3351	Roanoke Rapids, N. C.
Crouse, W. H.	Fr., M. E.	319 Bagwell, 3385	Lincolnton, N. C.
Crowell, D. L., Jr.	So., Tex.	206 Watauga, 3024	Albemarle, N. C.
Cummings, H. H.	So., Arch. E.	1805 St. Mary's St.	Kinston, N. C.
Cutting, A. E.	So., Tex.	5 Berry, 4358	Jacksonville, N. C.
Dade, H. F.	Grad. Ru. Soc.	2212 Hope St.	Raleigh, N. C.
Daniel, A. M.	Fr., Aero. E.	218 Bagwell, 3350	Reidsville, N. C.
Daniel, W. E.	Fr., Tex.	318 McDowell St.	Leaksville, N. C.
Darnolt, J. O.	Jr. M. E.	2514 Clark Ave.	Charlotte, N. C.
Davis, C. B.	So., E. E.	531 N. Person St.	Tryon, N. C.
Davis, J. M., Jr.	Fr., Arch. E.	222 Park Ave.	Richmond, Va.
Davis, L. J.	Fr., M. E.	221 Becton, 3755	Morehead City, N. C.
Davis, N. E., Jr.	Fr., Aero. E.	13 E. Dixie Dr.	Wilmington, N. C.
Davis, O. L., Jr.	Fr., Tex.	305 Turlington, 4270	Mooresville, N. C.
Dawkins, C. D., Jr.	Fr., E. E.	329 Bagwell, 3395	Rockingham, N. C.
Dawson, Luther	Fr., Tex.	326 Turlington, 4288	Fayetteville, N. C.
Deal, H. M.	Fr. E. E.	115 Chamberlain St.	Stony Point, N. C.
Debnam, W. T.	So., Tex.	Box 176, Zebulon	Zebulon, N. C.
Decker, T. E.	Fr., Tex.	121 Turlington, 4218	Charlote, N. C.
Degen, Ralph	Jr., Tex. Mgt.	109 Oberlin Rd.	New York, N. Y.
Deitz, F. R.	So., E. E.	112 Alexander, 4109	Weaverville, N. C.
Dellinger, E. S.	So., Arch. E.	208 Gold, 3220	McAdenville, N. C.
Dellinger, L. E.	So., Ag.	238 Alexander, 4164	Altamont, N. C.
Denning, C. K.	Fr., E. E.	Carlton Heights	Western Boulevard
Denny, C. R	Jr., Ch. E.	230 Alexander, 4159	Winston-Salem, N. C.
Demid, J. F.	Fr., W. C. & M.	2402 Everett Ave., 5554	Charlotte, N. C.
Dew, J. M.	Fr., E. E.	313 Bagwell, 3379	Fayetteville, N. C.
Dickens, W. P.	Fr., M. E.	114 Bagwell, 3314	Halifax, N. C.

Name	*Classification and Curriculum*	*Dorm. Room & Box No. or Street No.*	*Home Address*
Dickerson, J. E.	Fr., E. E.	503 E. Jones St.	Olathe, Colorado
Diehl, ..C, Jr.	So., E. E.	10 Enterprise St.	Selma, N. C.
Diehl, J. L.	Fr., E. E.	314 Bagwell, 3380	Winston-Salem, N. C.
Dillard, E. U.	Grad. An. Prod.	Trailer Park, 5574	Clarkesville, Ga.
Dixon, H. C.	Jr., Tex. Mgt.	306 Welch, 3266	Raleigh, N. C.
Dixon, J. V.	Fr., M. E.	310 Bagwell, 3376	Glenwood, N. C.
Doland, E. E.	Fr., E. E.	1616 Sunrise Ave.	Midland Park, N. J.
Dorsen, Robert	Jr., For.	303 Watauga, 3039	Miami Beach, Fla.
Downs, A. C.	So., E. E.	315 Bagwell, 3381	Greensboro, N. C.
Dudley, C. H. M.	Fr., S. E.	218 Bagwell, 3350	Benson, N. C.
Dulaney, R. B.	Grad. M. E.	2820 Everett Ave.	Ellwood City, Pa.
Dnnlea, R. A., Jr.	Fr., E. E.	13 E. Dixie Dr.	Wilmington, N. C.
Durner, G. M.	So., C. E.	8 Maiden Lane	Asheville, N. C.
Edens, C. F.	Fr., C. E.	131 Bagwell, 3331	Lumberton, N. C.
Edgerton, I. W.	Grad. Ag. Ec.		Kenly, N. C.
Edmundson, E. S., Jr.	So., C. E.	305 Capital Apts.	Raleigh, N. C.
Edwards, C. L.	Fr., E. E.	403 W. Aycock St.	Roanoke Rapids, N. C.
Edwards, H. L.	Jr., Ag. Ec.	36 Trailer, 5542	
Edwards, J. B., Jr.	Jr., Ind. Arts Ed.	Field House	Wilmington, N. C.
Edwards, L. D.	Fr., Ag.	Trailer Camp	Princeton, N. C.
Edwards, M. R.	Fr., Aero. E.	203 Watauga, 3021	Princeton, N. C.
Edwards, P. H.	Fr., E. E.	205 Bagwell, 3337	Mocksville, N. C.
Efland, T. D.	Fr., M. E.	217 Becton, 3751	Efland, N. C.
Elam, J. G.	Fr., Ag.	207 Gold, 3219	Oxford, N. C.
Elamoury, E. E. D.	Spec., Tex.	202 4th, 3120	Gamalia District
Elliott, H. C.	So., Arch. E.	117 E. Jones St.	Charlotte, N. C.
Ellis, LeRoy	Fr., E. E.	125 Becton, 3725	Clayton, N. C.
Ellis, R. R.	Jr., Ind. E.	331 Becton, 3799	FGasburg, Va.
Ellis, W. T., Jr.	So., E. E.	Fieldhouse	Mullens, West Va.
English, J. R., Jr.	Fr., Tex.	10 Berry, 4343	Monroe, N. C.
Enniss, H. W.	Fr., E. E.	139 Alexander, 3141	Long Island, N. Y.
Entwistle, W. H., Jr.	Fr., Tex.	302 Syme, 3566	Rockingham, N. C.
Erdoesq, E. W.	Fr., M. E.	Box 1203	Raleigh, N. C.
Eubanks, A. G.	So., Cer. E.	320 Syme, 3584	Sanatorium, N. C.
Fagala, O. H.	Jr., M. E.	6 Berry, 4339	
Fagan, R. W.	Fr., Tex.	229 Becton, 3763	Rock Hill, S. C.
Fahrer, R. B.	So., Aero. Engr.	204 Woodburn Rd.	Defiance, Ohio
Faison, O. W.	Fr., Ag.	314 E. Hargett St.	Raleigh, N. C.
Fallwell, E. L.	So., Ch. E.	1709 St. Mary's St.	Raleigh, N. C.
Fearrington, T. H.	So., Tex.	125 Alexander, 4120	Valdese, N. C.
Featherston, G. T., Jr.	Fr., Ind. Arts Ed.	YMCA	Orlando, Gla.
Ferebee, S. S., Jr.	Sr., Arch. E.	37 Trailer Camp, 5563	Shawboro, N. C.
Ferrell, O. L.	So., M. E.	8 Rosemary St.	Glen Alum, W. Va.
Filer, R. F.	Fr., Arch. E.	116 Alexander, 4113	Norfolk, Va.
Fisher, M. M., Jr.	Fr., C. E.	128 Alexander, 4123	Charlotte, N. C.
Fisler, J. F.	Jr., Agron. (F.C.)	103 Welch, 3239	Ivanhoe, N. C.
Fitch, J. F.	Fr., Ag. Ed.	105 Welch, 3241	Kings Mountain, N. C.
Fitchett, B. T., Jr.	So., Gen. E.	228 Alexander, 4157	Weaversville, N. C.
Flaherty, C. M., Jr.	Sr., Ch. E.	322 Bagwell, 3388	Hamlet, N. C.
Flake, W. H.	Sr., Ag. Ed.	309 Syme, 3573	Wadesboro, N. C.
Fleming, Margaret K.	Grad. Exp. Sta.	C-301 Boylan Apts.	Raleigh, N. C.
Fletcher, N. G.	Fr., For.	Field House	Bronx, N. Y.
Flora, W. C., Jr.	Jr., E. E.	108 Syme, 3508	Moyock, N. C.
Flowers, J. R.	Jr., Arch. E.	112 Turlington, 4209	Lumberton, N. C.
Flowers, J. P., Jr.	Fr., Ag.	206 Welch, 3254	Clayton, N. C.
Fondren, R. W.	Fr., Aero. E.	107 Alexander, 4106	Greensboro, N.C.
Fowler, W. W., Jr.	Jr., Arch.	205 Ashe Ave.	Lockhart, S. C.
Fox, I. V., Jr.	Fr., M. E.	235 Alexander, 4162	Randleman, N. C.

Name	*Classification and Curriculum*	*Dorm. Room & Box No. or Street No.*	*Home Address*
Foyles, F. R.	Fr., Ag.	201 N. Wilmington St.	La Grange, N. C.
Franks, L. C.	Fr., Tex.	1429 Canterbury Rd.	Saint Pall, Minn.
Freese, R. J.	Fr., Tex.	King Charles Rd.	Charlotte, N. C.
Fuerstman, M. M.	So., Tex.	118 Alexander, 4115	New York, N. Y.
Fuller, G. A., Jr.	So., E. E.	113 Watauga, 3013	Hickory, N. C.
Furgurson, G. H., Jr.	Fr., E. E.	207 Welch, 3255	Durham, N. C.
Furr, W. W.	Fr., Aero. E.	2629 Fairview Rd.	Raleigh, N. C.
Gadarian, Gerard	Fr., Gen. E.	310 Syme Hall, 3574	New York, N. Y.
Gagnon, G. W.	Fr., Ch. E.	Garner	Bridgeport, Conn.
Gailey, D. W.	So., M. E.	205 Oberlin Rd.	Columbus, Ohio
Gandy, J. H.	Fr., For.	238 Turlington, 4263	Mempis, Tenn.
Garey, R. R.	Fr., Ch. E.	214 Watauga, 3032	Wilmington, N. C.
Garrison, D. O., Jr.	Jr., M. E.	1718 Park Dr.	Norfolk, Va.
Gaskins, J. D.	Sr., Tex. Mfg.	1213 Filmore, 5534	New Bern, N. C.
Gatlin, G. A.	Fr., Tex.	207 Watauga, 3025	Charlotte, N. C.
Geil, J. W., Jr.	Sr., Tex. Mfg.	226 Bagwell, 3358	Lynbrook, N. Y.
Gelfman, H. L.	Spec., Ag. Ec.	Grosvenor Gardens	Raleigh, N. C.
Gerard, A. P.	Fr., Ch. E.	101 Bagwell, 3301	Washington, N. C.
Gibbs, G. C.	So., Ind. E.	19 Trailer Camp, 5504	Asheville, N. C.
Gibson, C. B.	Fr., Ag.	605 Dixie Trail	Greenville, S.C.
Gibson, E. R.	Jr., For.	403 W. Hargett St.	Raleigh, N. C.
Gilbert, R. W.	Jr., Tex. Mfg.	302 Turlington, 4267	Fall River, Mass.
Glass, S. W., Jr.	Fr., E. E.	326 Bagwell, 3392	Greensboro, N. C.
Gold, C. D.	So., Tex.	232 Syme, 3564	Wilson, N. C.
Goldston, J. M.	So., Ch. E.	22 Becton, 3823	Concord, N. C.
Gordon, M. O.	So., C. E.	318 Alexander, 4181	Monroe, N. C.
Gorman, Katharine S.	Spec.	105 E. North St.	Raleigh, N. C.
Grandy, C. W., Jr.	So., M. E.	117 Syme, 3517	McColl, S. C.
Gravely, P. S.	So., M. E.	119 Syme, 3519	Monroe, N. C.
Gray, R. L.	Fr., For.	203 Cox Ave.	Tompkinsville, Ky.
Green, A. L.	So., Ag.	1213 Filmore	Durham, N. C.
Greene, Basil	Fr., M. E.	308 Bickett Blvd.	Brooklyn, N. C.
Greene, E. J.	Fr., Tex.	110 Harrison Ave.	Charlotte, N. C.
Griffis, J. R.	Spec., Tex.	115 Watauga, 3015	Buffalo, N. Y.
Grigg, K. F.	Fr., Aero. E.	204 Watauga, 3022	Lincolnton, N. C.
Grimes, J. W., Jr.	Fr., Aero. E.	233 Alexander, 4161	Harisburg, Pena.n
Grosse, E. H.	Sr., Ch. & D.	619 Wills Forest St.	Wildwood, N. J.
Haene, W. H.	Sr., M. E.	319 Syme, 3582	Elm City, N. C.
Hagan, M. L.	Jr., Tex. Mgt.	28 Shepherd St.	New York, N. Y.
Hall, Ivan	Fr., E. E.	2404 Clark Ave., Apt. 5	Middlesex, N. C.
Hallenbeck, J. D.	Fr., Tex.	312 Berry, 4332	High Point, N. C.
Halliburton, J. B., Jr.	Fr., Tex.	324 Bagwell, 3390	Charlotte, N. C.
Halstead, H. H.	Fr., M. E.	103 Bagwell, 3303	Cherryville, N. C.
Hampton, R. C.	Jr., Ag. Ed.	115 Watauga, 3015	China Grove, N. C.
Hampton, W. R., Jr.	Fr., M. E.	130 Becton, 3730	Plymouth, N. C.
Hamrick, G. T.	Jr., Tex. Mfg.	104 Becton, 3704	Forest City, N. C.
Hamrick, R. J.	So., E. E.	116 St. Mary's, Apt. 1	Roanoke, Va.
Hancock, D. H.	Jr., C. E.	10 Enterprises St.	Lawrence, Mass.
Hancock, D. W.	Fr., E. E.	318 Bagwell, 3384	Morehead City, N. C.
Handley, Arthur, J.	So., Arch. E.	323 Turlington, 4285	Poughkeepsie, N. Y.
Handy, R. P.	Grad. Ag. Ec.	1539 Iredell Dr.	Raleigh, N. C.
Hanse, D. J.	Grad. Diesel E.	105 4th, 3115	Babylon, N. Y.
Hanson, C. H.	Grad., Agron. (F.C.)	Agron. Dept.	Walker, Minn.
Hardee, J. F.	Sr., For.	210 Becton, 3744	Siler City, N. C.
Hare, R. J.	Fr., For.	221 Turlington, 4249	Murfreesboro, N. C.
Harmon, C. C.	So., Arch.	105 Bagwell, 3305	Gastonia, N. C.
Harper, W. R.	Fr., Aero. E.	222 Bagwell, 3354	Greensboro, N. C.
Harrington, B. D.	So., Ch. E.	311 Syme, 3575	Charlotte, N. C.

Name	*Classification and Curriculum*	*Dorm. Room & Box No. or Street No.*	*Home Address*
Harris, J. T.	So., E. E.	223 Becton, 3757	Clayton, N. C.
Harris, K. F.	So., Ag. Ch.	213 Syme, 3545	Dallas, N. C.
Harrison, O. A.	So., E. E.	2008 White Oak Rd.	Wilson, N. C.
Harrison, W. G., Jr.	Fr., C. E.	106 Welch, 3242	Burlington, N. C.
Hart, R. E.	Fr., M. E.	318 Turlington, 4280	Bowman, S. C.
Hartmann, J. R.	Fr., Tex.	315 Syme, 3579	Greensboro, N. C.
Harvey, A. M.	Jr., Tex. Mfg.	317 Alex., 4180	Lincolnton, N. C.
Hasell, T. M., Jr.	Fr., For.	238 Turlington, 4263	Waterboro, S. C.
Hassell, S. J.	So., Ag.	202 Gold, 3214	Roper, N. C.
Hauser, R. L.	Fr., E. E.	315 Becton, 3783	Dobson, N. C.
Hawkins, C. D., Jr.	Fr., Ag.	Box 83, Zebulon	Wendell, N. C.
Hawkins, E. D.	Sr., M. E.	117 Cox Ave., 5241	
Hawkins, Fred	Fr., Ch. E.	323 Alex., 4186	Hendersonville, N. C.
Hawley, W. H.	Fr., Arch. E.	109 Alex., 4107	Lexington, N. C.
Haynes, M. B., Jr.	So., E. E.	221 Syme, 4107	Asheville, N. C.
Hazelberg, R. J.	Grad. Ag. Ec.	2724 Van Dyke Ave.	Raleigh, N. C.
Hedrick, R. W.	So., Arch. E.	330 Becton, 3798	Woodleaf, N. C.
Heffner, C. E.	Spec. (Tex.3	115 Turlington, 4212	Shelby, N. C.
Helms, H. H., Jr.	Fr., E. E.	222 Bagwell, 3354	Waxhaw, N. C.
Hemphill, H. E.	Fr., Ag.	1417 Park Dr.	Asheville, N. C.
Hendricks, J. W., Jr.	Sr., Tex. Mgt.	118 Turlington, 4215	Shelby, N. C.
Hennessee, W. E., Jr.	Fr., Geol. E.	202 Wat., 3020	Salisbury, N. C.
Henry, W. E.	Fr., A. G.	225 Bagwell, 3357	Rocky Point, N. C.
Herring, R. K.	Fr., M. E.	111 Alex., 4108	Thomasville, N. C.
Hewitt, G. W.	Fr., Geo. E.	102 Wat., 3002	Myrtle Beach, N. C.
Hiers, Doris R.	Grad. Exp. Stat.		Moultrie, Ga.
High, S. C., Jr.	Grad. Ind. Arts, Ed.	1031 W. South St.	Raleigh, N. C.
Hildebrand, F. A.	Fr., Gen. E.	130 Bagwell, 3330	Baltimore, Md.
Hines, A. K.	Fr., Ag. E.	202 Gold, 3214	Enfield, N. C.
Hines, W. A., Jr.	Fr., Gen. E.	120 Bagwell, 3320	Winston-Salem, N. C.
Hinton, C. L.	Fr., E. E.	303 Becton, 3771	Princeton, N. C.
Hinton, J. W.	Fr., Tex.	125 Becton, 3725	Clayton, N. C.
Hobson, C. J.	Jr., An. Prod.	215 Syme, 3547	Boonville, N. C.
Hodes, A. D.	Jr., Tex. Mfg.	2210 Hope St.	Chattanooga, Tenn.
Hodul, P. T.	Fr., For.	319 Bagwell, 3385	New York, N. Y.
Holcombe, H. M.	So., C. E.	330 Syme, 3594	Fayetteville, N. C.
Holk, A. J., Jr.	Fr., M. E.	304 E. Hargett	Milwaukee, Wis.
Holland, J. C., Jr.	So., Ind. E.	2206 Anderson Dr.	Raleigh, N. C.
Holland, M. B.	So., Tex.	120 Hillcrest Rd.	Conover, N. C.
Holleman, E. C.	Fr., Aero. E.	Apex	Apex, N. C.
Holmes, J. M.	Fr., Cer. E.	317 Hyme, 3581	Sanford, N. C.
Holt, H. M.	Fr., E. E.	304 Bagwell, 3370	Rockingham, N. C.
Holt, R. D.	Sr., C. E.	226 Syme, 3558	Goldsboro, N. C.
Hooks, T. G.	Fr., E. E.	110 Harrison Ave.	Charlote, N. C.
Hord, E. T., Jr.	So., Tex.	2328 Byrd St.	
Hord, W. J.	Fr., E. E.	303 Alexander, 4169	Washington, D. C.
Horne, H. J., Jr.	So., Ch. E.	216 Wat., 3034	Roanoke Rapids, N. C.
Horne, R. L.	Fr., For.	117 Wat., 3017	Charlotte, N. C.
Horton, Archibald, Jr.	Spec. (Tex.)	1708 Park Dr	Raleigh, N. C.
Hosmer, Asa V.	So., Ch. E.	311 Syme, 3575	Charlote, N. C.
Howard, S. D., Jr.	Fr., Tex.	123 Becton, 3723	Davidson, N. C.
Howe, T. T.	So., Tex.	301 Wat., 3037	Durham, N. C.
Howell, E. L.	So., Ag. Ed.	1806 Hillsboro St.	Rocky Mount, N. C.
Howie, L. M.	Fr., E. E.	204 Syme, 3536	Southern Pines, N. C.
Huband, E. C., Jr.	Fr., Arch. E.	307 Bagwell, 3373	Wilmington, N. S.
Huffstetler, C. Q., Jr.	So., E. E.	105 Bagwell, 3305	Gastonia, N. C.
Hull, B. W.	Jr., Ag. Ed.	29 Trailer Camp, 5003	Vale, N. C.
Hultz, B. E.	Sr., Aero. E.	106 Becton, 3706	Winston-Salem, N. C.
Hunnicutt, F. J., Jr.	So., For.	130 Becton, 3730	Durham, N. C.
Hunnings, L. D., Jr.	Sr., Ag. E.	112 Wat., 3012	New Bern, N. C.

Name	*Classification and Curriculum*	*Dorm. Room & Box No. or Street No.*	*Home Address*
Hunter, D. G.	Fr., E. E.	304 Bagwell, 3370	Haresville, N. C.
Hunter, H. N.	Fr., M. E.	112 Smye, 3512	Charlote, N. C.
Hunter, J. S.	Jr., E. E.	323 Turlington, 4285	Linden, N. J.
Hurlock, H. H.	Fr., For.	16 Trailer Camp	Newark, Del.
Hurst, W. L.	Fr., For.	311 Gold, 3235	Durham, N. C.
Hutchins, E. H.	Fr., Ch. E.	2320 Lake Dr.	Raleigh, N. C.
Iguiniz, M. G.	Spec.	105 Bagwell, 3305	Jalisco, Mexico
Ingle, R. S.	Sr., Geol. E.	316 Wat., 3052	Statesville, N. C.
Ingold, R. S.	Sr., Geol. E.	212 Berry, 4319	Albemarle, N. C.
Ivey, B. M.	Fr., Arch. E.	203 Berry, 4310	Charlotte, N. C.
Jackson, Raymond Mark, Jr.	Fr., M. E.	104 E. North St.	Hornell, N. Y.
Jacobs, J. W., Jr.	Fr., Tex.	303 Hillcrest Rd.	Greensboro, N. C.
Jacobson, H. M.	Fr., Tex.	320 Turlington, 4282	Long Beach, N. Y.
Jarvis, R. N.	Grand., An. Prod.	College Trailer Site	Mars Hill, N. C.
Jarvis, W. W., Jr.	So., Ag.	Box 181-A, Rt. No. 5	Moyock, N. C.
Jerome, J. B.	Fr., E. E.	523 N. East St.	Raleigh, N. C.
Johnson, A. E.	Fr., E. E.	205 Bagwell, 3337	Charlotte, N. C.
Johnson, A. S., Jr.	Fr., C. E.	1704 Bickett Blvd.	Raleigh, N. C.
Johnson, C. A.	Fr., E. E.	311 Welch, 3271	Mt. Gilead, N. C.
Johnson, C. F.	Fr., E. E.	201 Turlington, 4232	Belmont, N. C.
Johnson, H. M.	Grad., Ind. Arts	102 Wat., 3002	Statesville, N. C.
Johnson, J. E.	Spec., Tex.		Hickory, N. C.
Johnson, O. H., Jr.	Jr., Ag. (Flor.)	28 Col. Trailer, 5726	Morehead City, N. C.
Johnson, R. N.	Fr., Ag.	3 Syme, 3599	Benson, N. C.
Johnson, V. L.	Fr., E. E.	311 Welch, 3271	Mt. Gilead, N. C.
Jolliff, R. B.	Fr., Tex.	120 Turlington, 4217	Smithfield, N. C.
Jones, B. F.	So., Ag.	115 Alex., 4112	Kannapolis, N. C.
Jones, D. W.	Sr., Ag. Ed.	107 Alex., 4106	Boiling Springs, N. C.
Jones, Everett Barrett	Fr., E. E.	116 Bagwell, 3316	Elizabeth City, N. C.
Jones, E. E.	So., Ch. E.	324 Turlington, 4286	Monroe, N. C.
Jones, H. M.	Jr., C. E.	210 Ashe	Wake Forest, N. C.
Jones, H. T.	Fr., Tex.	210 Bagwell, 3342	Roanoke Rapids, N. C.
Jones, M. L., Jr.	Jr., Ag. Ed.	212 Turlington, 4240	Zirconia, N. C.
Jones, R. M.	Jr., Ch. E.	110 Becton, 3710	Salisbury, N. C.
Jones, Wayland, Jr.	So., Agr.	2114 Fairview Rd.	Smithfield, N. C.
Jones, W. R.	So., Tex.	225 Becton, 3759	Humboldt, Tenn.
Jones, W. T.	Fr., For.	123 Alex., 4118	Winston-Salem, N. C.
Jordan, D. F.	Jr., E. C.	113 Syme, 3513	Laurinburg, N. C.
Jordan, H. H.	So., C. E.	125 Turlington, 4222	Siler City, N. C.
Joyce, John H.	Jr., Occ. I. & G.	2513 Clark Ave.	Long Branch, N. J.
Kabakow, H. M.	So., Ag.	220 Alex., 4149	Bronx, N. Y.
Karambelas, J. N.	Fr., C. E.	104 Alex., 4104	Asheville, N. C.
Katz, L. R., Jr.	Fr., Arch.	113 Bagwell, 3313	Charlote, N. C.
Keener, W. B.	So., Arch. E.	Cary, N. C.	High Shoals, N. C.
Kehlmann, Martin	So., Aero. E.	303 Turlington, 4268	New York, N. Y.
Kehr, K. E.	Fr., Aero. E.	205 Ashe Ave.	Brodbecks, Pa.
Keller, C. R.	Fr., E. E.	412 Chamberlain	Memphis, Tenn.
Keller, W. H.	Fr., Tex.	2815 Mayview Rd.	Akron, N. C.
Kelly, H. B.	Fr., Gen. E.	Withdrew	Clayton, N. C.
Kelly, K. V.	Fr., Ind. Arts, Ed.	223 Syme, 3555	Raleigh, West Va.
Kenney, E. R., III	Fr., Ch. E.	39 Trailer Camp, 5582	Cleveland, Ohio
Kent, H. D.	Fr., Arch.	2 Berry, 4335	Macon, Ga.
Kestler, R. B., Jr.	So., C. E.	1814 Arlington St.	Statesville, N. C.
Kiger, H. C.	Grad., Ag. Ec.	301 4th, 3127	Pfafftown, N. C.
Kilic, N.	Spec.	304 Becton, 3772	Mersin, Turkey
King, C. E.	Fr., M. E.	217 Bagwell, 3349	Wilmington, N. C.
King, D. E.	Fr., Tex.	203 Brooks Ave.	Wilmington, N. C.
King, J. C., Jr.	Fr., Occ. I. & G.	337 Alex., 4197	Greensboro, N. C.

Name	*Classification and Curriculum*	*Dorm. Room & Box No. or Street No.*	*Home Address*
Knott, C. T.	Fr., For.	111 Welch, 3247	Wendell, N. C.
Knox, J. A.	Fr., An. Prod.	306 Gold, 3230	Cleveland, N. C.
Koonce, T. R., Jr.	Sr., C. E.	122 Bagwell, 3322	Fair Bluff, N. C.
Kostukowich, Wm.	So., C. E.	122 Bagwell, 3322	Bronx, N. C.
Ladd, B. M.	Fr., M. E.	204 Syme, 3536	Whitakers, N. C.
Lamm, J. A., Jr.	So., E. E.	109 Wat., 3009	Alexandria, Va.
Lamm, M. H.	Fr., E. E.	202 Ashe Ave.	Lucama, N. C.
Land, W. A.	Fr., Ch. E.	101 Berry, 4301	Chattanooga, Tenn.
Lane, C. M.	So., M. E.	104 Turlington, 4203	Greensboro, N. C.
Langley, S. B.	Fr., M. E.	312 Welch, 3272	Pinetops, N. C.
Latham, F. M.	Fr., Ch. E.	309 Turlington, 4272	New Bern, N. C.
Lawrence, W. H.	Fr., E. E.	229 Alex., 4158	Rocky Mount, N. C.
Lawson, W. H.	Fr., Tex.	304 Berry, 4324	Englewood, N. J.
Ledford, H. E.	Fr., Ag. Ed.	305 Syme, 3569	Kings Mt., N. C.
Leitch, J. D.	So., M. S.	2711 Rosedale Ave.	Mount Airy, N. C.
Lemlich, B. R.	Sr., Ag. Ch.	118 Syme, 3518	Brooklyn, N. Y.
Lentz, R. A.	Fr., M. E.	216 Alex., 4145	Salisbury, N. C.
Leonard, B. T.	Sr., Pom. (Flor.)	207 Turlington, 4237	Norfolk, Va.
Leonard, C. S., Jr.	Fr., C. E.	101 Bagwell, 3301	Lexington, N. C.
Leonard, W. L., Jr.	Grad., Diesel E.	207 Turlington, 4237	Norfolk, Va.
Leveen, I. A.	Sr., Tex.	408 Stacy St.	New York, N. Y.
Lewis, C. E.	So., Ag.	228 Syme, 3560	Rocky Point, N. C.
Lewis, H. G.	Sr., Arch. E.	409 Brooks Ave.	Morehead City, N. C.
Lewis, H. T., Jr.	Jr., Ch. E.	132 S. Boylan Ave.	Raleigh, N. C.
Lewis, T. C.	So., Arch. E.	43 Trailer Camp, 5543	Dallas, N. C.
Lewis, T. D., Jr.	Fr., Tex.	Trailer Camp, 5492	Louisville, Ky.
Liner, W. R.	Fr., For.	307 Welch, 3267	Waynesville, N. C.
Little, H. L.	Jr., Tex. Mfg.	307 Turlington, 4271	Fall River, Mass.
Litwack, Charlotte (Mrs.)	Grad. Ru. Soc.	2706 Kilgore Ave.	
Lloyd, W. W.	Fr., Tex.	118 Becton, 3718	Greensboro, N. C.
Loard, H. K., Jr.	Fr., Aero. E.	2704 Barnettler St.	
Locklair, E. E.	Jr., Ch. E.	2804 Hillsboro	Raleigh, N. C.
Locklear, W. P.	Fr., M. E.	112 Gold, 3224	Pemzroke, N. C.
Loftin, E. E.	Fr., Ch. E.	309 Bagwell, 3375	Trenton, N. C.
Loney, D. J.	Fr., Tex.	Field House	Ottawa, Canada
Loy, J. P.	So., E. E.	218 Syme, 3550	Burlington, N. C.
Lunberg, G. F., Jr.	Jr., Tex. Mfg.	409 Chamberlain St.	Chicago, Ill.
McArthur, C. S., Jr.	So., E. E.	304 Turlington, 4269	Lumberton, N. C.
McCall, J. D.	Fr., E. E.	205 Gold, 3217	Charlotte, N. C.
McCants, C. B.	Fr., Ag.	337 Turlington, 4296	Andrews, S. C.
McCaskill, R. H.	Fr., E. E.	131 Syme, 3531	Greensboro, N. C.
McColskey, R. W.	Fr., M. E.	311 Gold, 3235	Lake City, Fla.
McCormick, D. H.	Fr., Tex.	116 Becton, 3716	Parkton, N. C.
McCoy, J. C.	Fr., M. E.	219 Bagwell, 3351	Durham, N. C.
McCreary, C. E.	So., Ch. E.	1907 Glenwood Ave.	Raleigh, N. C.
McCulloch, E. W.	Fr., E. E.	302 Welch, 3262	Norfolk, Va.
McDevettr, F. T., Jr.	So., Gen. E.	210 Welch, 3258	Washington, N. C.
McDonald, J. H., Jr.	Fr., M. E.	205 Bagwell, 3337	Stony Point, N. C.
McDonald, N. A.	Fr., C. E.	211 Berry, 4318	Lillington, N. C.
McDuffie, Ruth (Mrs.)	Fr., Occ. I. & G.	Withdrew	Spring Hope, N. C.
McGinness, E. J.	So., Aero. E.	307 Turlington, 4271	New Haven, Conn.
McGinnis, J. H.	Fr., Tex.	1219 Courtland Dr.	Baltimore, Md.
McKay, R. A.	Jr., For.	333 Becton, 3801	Norfolk, Va.
McManus, W. D.	Fr., Tex.	229 Becton, 3763	Cheraw, S.C.
McNeill, J. A.	Fr., C. E.	302 Welch, 3262	Rockingham, N. C.
Macklin, A. L.	Fr., E. E.	206 Bagwell, 3338	Winston-Salem, N. C.
Macon, T. G.	So., Tex. Mgt.	219 Syme, 3551	Mt. Airy, N. C.

Name	*Classification and Curriculum*	*Dorm. Room & Box No. or Street No.*	*Home Address*
Magill, F. D.	So., E. E.	Withdrew	Lenoir, N. C.
Mahone, R. D.	Sen., For.	107 Berry, 4307	Williamsburg, Va.
Mallard, L. H.	Fr., Arch. E.	121 Becton, 3721	Greensboro, N. C.
Mallison, F. M.	Fr., M. E.	229 Alex., 4158	Washington, N. C.
Maness, Max	Jr., Ag. Ed.	225 Alex., 4154	Biscoe, N. C.
Margolis, A. W.	Sen., Tex. C. & D.	223 Turlington, 4251	Brooklyn, N. Y.
Marks, J. O.	So., Ch. E.	314 Becton, 3782	Sanford, N. C.
Marlowe, T. Y.	Fr., M. E.	302 Welch, 3262	Marion, N. C.
Marshall, J. B.	So., C. E.	309 Berry, 4329	Charlotte, N. C.
Marshall, M. A.	Fr., For.	2308 Hillsboro Street	
Marshburn, E. O., Jr.	Fr., Aero.	Andrew Johnson Hotel	Raleigh, N. C.
Martin, A. F.	Sen., Agron. (F.C.)	205 Turlington, 4236	Jackson, N. C.
Martin, D. A.	Fr., M. E.	201 Becton, 3735	Jonesville, N. C.
Martin, N. S.	So., C. E.	310 Berry, 4330	Winston Salem, N. C.
Massey, W. D.	So., Tex.	321 Alex., 4184	Goldsboro, N. C.
Mathis, J. E., Jr.	Fr., C. E.	Withdrew	Wilson, N. C.
Matusow, D. M.	Jr., Tex. Mfg.	109 Oberlin Rd.	New York, N. C.
Mauney, S. D., Jr.	So., E. E.	319 Alex., 4182	Newton, N. C.
Mays, G. C.	So., Aero.	210 Gold, 3222	Weaverville, N. C.
Meacham, J. T.	Fr., M. E.	211 Becton, 3745	Hamlet, N. C.
Melby, F. C.	Fr., E. E.	18 Trailer Camp	Los Angeles, Calif.
Mencke, L. T.	Jr., M. E.	211 Hawthorne Rd.	Wilmette, Ill.
Meredith, J. S.	Fr., Arch. E.	11 Becton, 3813	Greensboro, N. C.
Mewborn, J. E., Jr.	So., Ag. Ed.	120 Syme, 3520	Snow Hill, N. C.
Michal, D. H.	Sen., Aero.	212 Wat., 3030	Canton, N. C.
Millen, J. A.	Fr., E. E.	303 Alex., 4169	Gastonia, N C.
Miller, C. G., Jr.	Jr., C. E.	12 Horne St.	Warren, Ohio
Miller, W. J., Jr.	Fr., Arch.	307 Turlington, 4271	Lenoir, N. C.
Mims, C. H., Jr.	Sen., Ch. E.	2301 Wake Forest Rd.	Raleigh, N. C.
Mims, I. C.	Fr., M. E.	Box 164, Holly Sgs.	Holly Springs, N. C.
Mitchell, M. H., Jr.	Sen., Aero.	407½ N. Blount St.	Weldon, N. C.
Mitchell, R. H.	Sen., Arch. E.	2015 Fairview Rd.	Raleigh, N. C.
Mogilnicki, E. J.	Sen., Ch. E.	317 Wat, 3053	New Bedford, Mass.
Monday, W. F.	Fr., C. E.	C o Pine Grove Serv. Sta., R.3	Angier, N. C.
Monroe, R. J.	Grad., Exp. Stat.	3414 Hillsboro St.	Raleigh, N. C.
Moody, W. E., Jr.	So., Aero.	210 E. Franklin St.	Raleigh, N. C.
Moore, C. D., Jr.	Fr., Occ. I. & G.	1503 Jarvis St.	Columbia, S. C.
Moore, H. C., Jr.	Fr., M. E.	325 Syme, 3589	Reidsville, N.C.
Moore, J. C.	Fr., M. E.	603 Holden St.	Raleigh, N. C.
Moore, J. S.	Fr., Ch. E.	202 Bagwell, 3334	Tampa, Fla.
Moore, P. E.	Fr., M. E.	221 Becton, 3755	Morehead City, N. C.
Moore, P. S. J., Jr.	Fr., M. E.	Carova, Route 4	Raleigh, N. C.
Moore, R. B.	Fr., For.	312 Syme, 3576	Oxford, N. C.
Morgan, J. O.	Fr., M. E.	306 Hillcrest St.	Badin, N. C.
Morgan, Wm. Frank	Fr., For.	232 Bagwell, 3364	Midland, N. C.
Morrill, S. P.	Fr., E. E.	104 Turlington, 4203	Wilson, N. C.
Morris, B. R.	Fr., Tex.	303 Syme, 3576	Gastonia, N. C.
Moss, V. F., Jr.	Fr., Aero.	232 Syme, 3564	Wilson, N. C.
Murdoch, J. G., Jr.	Fr., Ag. E.	2711 Fairview Rd.	Wildwood, N. C.
Murphy, B. C.	RFr., E. E.	204 Becton, 3738	Pueblo, Colo.
Murphy, R. D.	So., C. E.	1417 Scales St.	Raleigh, N. C.
Nanney, C. W.	Jr., Tex. Mfg.	11 Trailer Camp, 5552	Union Mills, N. C.
Nelson, E. W.	Fr., M. E.	1715½ Hillsboro St.	Topton, N. C.
Nery, R. A.	Fr., Aero.	333 Alex., 4195	N. Andover, Mass.
Nery, H. J.	Jr., Ch. E.	333 Alex., 4195	N. Andover, Mass.
Nesbit, W. R.	Fr., Ag.	106 Welch, 3242	Concord, N. C.
Nichols, L. B., Jr.	So., E. E.	307 Wat., 3043	Andrews, N. C.
Nicholson, M. P., Jr.	Fr., Aero.	61 Trailer Camp	Burlington, N. C.
Nix, W. M.	Fr., C. E.	321 Becton, 3789	La Grange, Ga.

Name	*Classification and Curriculum*	*Dorm. Room & Box No. or Street No.*	*Home Address*
Norman, J. H.	So., Tex.	330 Alex., 4193	Dobson, N. C.
Norment, R. E., Jr.	Fr., E. E.	314 Forest Rd.	Lenoir, N. C.
Norris, T. A., Jr.	Fr., Tex.	405 W. Park Dr.	Raleigh, N. C.
Northern, W. L.	Fr., Ag.	114 Syme, 3574	Moyock, N. C.
Nufer, W. L.	So., C. E.	202 Bagwell, 3334	Goldsboro, N. C.
Odham, J. W.	Sen., Ag. Ed.	110 Wat., 3010	Grifton, N.C.
Oppenheim, N. J.	So., Tex.	223 Turlington, 4251	Brooklyn, N. Y.
Osborne, J. L., Jr.	Fr., M. E.	219 Syme, 3551	Lawndale, N. C.
Owen, J. A., Jr.	Fr., Ag.	317 Bagwell, 3383	Wilmington, N. C.
Owen, S. M.	So., Aero.	122 Syme, 3522	Whiteville, N. C.
Owen, W. E.	Fr., Tex.	210 Berry, 4317	Gastonia, N. C.
Owens, J. B., Jr.	Fr., Arch. E.	232 Becton, 3766	Winston-Salem, N. C.
Padgett, E. G., Jr.	So., Gen. E.	L3A Cameron Ct. Apts.	Raleigh, N. C.
Page, R. E., Jr.	Fr., Aero.	919 W. Johnson St.	Statesville, N. C.
Pallagut, E. A.	So., M. E.		Charlote, N. C.
Palmer, R. H.	So., Tex.	102 Syme, 3502	Ardmore, Pa.
Pardew, W. L.	Fr., Tex.	309 Welch, 3269	Roaring River, N. C.
Paren, R. J.	So., Ag.	317 Wat., 3053	Cliffside Pk., N. J.
Parks, J. R.	Jr., Ind. E.	106 Syme, 3506	Statesville, N. C.
Parks, W. R.	So., Aero.	Trailer, 5142	Lenoir, N. C.
Patton, C. B., Jr.	Fr., C. E.	517 Florence St.	Jonesboro, N. C.
Patton, M. S.	Sen., Agron. (F.C.)	24 Becton, 3825	Franklin, N. C.
Paul, O. T.	Sp. (Aero.)	302 Wat., 3038	Washington, N. C.
Paylor, W. W.	Fr., For.	128 Turlington, 4225	Longhurst, N. C.
Peacock, B. C.	Fr., E. E.	310 Gold, 3234	Roper, N. C.
Pearson, W. S.	Grad., Tex. C. & D.	1408 Benehan St.	Charlote, N. C.
Peeler, C. M., Jr.	So., Ind. E.	321 Syme, 3585	Shelby, N. C.
Peeler, R. L.	Fr., E. E.	310 Gold, 3234	Salisbury, N.C.
Peeples, R. C.	Grad., Entom.	2716 Rosedale Ave.	Tavares, Fla.
Perkins, D. D.	So., Arch. E.	Withdrew	
Perry, L. B.	So., E. E.	111 Syme, 3511	Charlote, N. C.
Pettinelli, F. J.	Fr., E. E.	327 Bagwell, 3393	Brooklyn, N. Y.
Petty, B. L.	Fr., Arch.	302 Berry, 4322	Swepsonville, N. C.
Philips, Hartwell	So., Gen. E.	216 Bagwell, 3348	Middlesex, N. C.
Phillips, E. F., Jr.	Sp. (Arch.)	213 Berry, 4320	Charlotte, N. C.
Phillips, J. W.	Jr., An. Prod.	6 Becton, 3808	Mebane, N. C.
Phillips, K. L.	Grad., Dairy Mfg.	102 Turlington, 4201	Raleigh, N. C.
Pickett, E. M.	Fr., C. E.	120 Bagwell, 3320	Wilmington, N. C.
Pickler, M. J.	Jr., Ag. Ec.	207 Sqme, 3539	New London, N. C.
Pierce, J. C., Jr.	Aud.	216 Polk Hall	
Piland, W. Q.	So., C. E.	308 N. Person St.	
Piscitello, A R.	So., Tex.	10 Enterprise St.	Jersey City, N. J.
Pittman, W. T.	Fr., Ch. E.	113 Becton, 3713	Rocky Mount, N. C.
Plaster, J. C.	Grad., Dairy Mfg.	204 Alex., 4136	Hickory, N. C.
Polier, A. Lewis	Fr., Arch. E.	104½ E. North St.	Raleigh, N. C.
Ponton, D. R.	So., Tex.	214 Forest Rd. n	Raleigh, N. C.
Poplin, J. M.	Fr., For.	204 Turlington, 4235	Rocky Mount, N. C.
Porter, R. A.	Grad., Exp. Stat.	109 Chamberlin St., 5593	Penn Yam, N. Y.
Potchtar, Harold	Fr., Cer. E.	303 Turlington, 4268	Brooklyn, N. Y.
Potter, J. R.	Fr., Ag.	1306 S. Jackson St.	La Grange, N. C.
Power, T. H.	Fr., E. E.	210 N. Harrington St.	Decatur, Ga.
Powers, D. E., Jr.	Fr., M. E.	232 Bagwell, 3364	Savannah, Ga.
Powers, R. M.	So., E. E.	314 Wat., 3050	Moyock, N. C.
Preslar, G. H., Jr.	Fr., M. E.	319 Becton, 3787	Sanford, N. C.
Price, F. W.	Fr., E. E.	119 Bagwell, 3319	Gumberry, N. C.
Prim, G. C.	Sen., F.M. & F.F.	115 Becton, 3715	Yadkinville, N. C.
Privette, J. M.	Fr., Ag. Ed.	202 Syme, 3534	Wake Forest, N. C.
Probst, F. P.	Fr., For.	2629 Fairview Rd.	Richmond, Va.

Name	*Classification and Curriculum*	*Dorm. Room & Box No. or Street No.*	*Home Address*
Proctor, W. L., Jr.	Jr., Gen. E.	407 Carlton Ave., Durham	Durham, N. C.
Prout, C. H.	Jr., M. E.	102 Becton, 3702	Owings, Md.
Pruitt, A. A.	Grad., For.	103 4th, 3113	Carteret, N. J.
Puckett, F. R.	Fr., For.	2414 Hillsboro St.	Rapid City, S. Dak.
Purlson, E. H.	So., Ag.	322 Alex., 4185	Verona, N. J.
Quay, T. L.	Grad., Zool. (Ent.)	28 Bagwell Ave.	Mt. Holly, N.J.
Quick, E. M.	Fr., Gen. E.	1805 St. Marys St.	Bennettsville, S. C.
Rackley, C. H.	Fr., E. E.	110 Bagwell, 3310	Willard, N. C.
Rankin, S. A.	So., Tex.	121 N. Person St., Apt. 11	
Rasmussen, P. B.	Fr., Ag. Ch.	126 Becton, 3726	Hope Mills, N. C.
Ratchford, C. B.	Grad., Ag. Ec.	603 Willard Pl.	Gastonia, N. C.
Ratts, B. W.	Fr., For.	103 Turlington, 4202	Fayetteville, N. C.
Rautenstrauch, Ruth P.	Grad., Occ. I.&G.		Raleigh, N. C.
Rea, J. L., Jr.	So., Ag.	118 Becton, 3718	Roper, N. C.
Reep, L. J.	Fr., Ag.	121 Syme, 3521	Lincolnton, N. C.
Reisenauer, H. M.	Grad., Agron. (Soils)	108 4th, 3118	Genesee, Idaho
Remillard, E. J., Jr.	Sen., Ch. E.	212 Cox Ave.	Fairhaven, Mass.
Reynolds, R. H.	Sen., Aero.	1420 Park Dr.	Raleigh, N. C.
Reynolds, W. R., Jr.	Sp. (Tex.)	218 Becton, 3752	Salisbury, N. C.
Rheuark, E. C.	Fr., E. E.	104 Gold, 3204	Graham, N. C.
Richardson, R. C.	So., Tex.	1913 Alexander Rd.	Raleigh, N. C.
Rightmyer, R. J., Jr.	Jr., Aero.	191 Wat., 3001	Roanoke Rapids, N. C.
Riley, H. L.	Fr., C. E.	136 Woodburn Rd.	Durham, N. C.
Rives, J. R., Jr.	Jr., Ch. E.	303 Gold, 3227	Statesville, S. C.
Roberts, A. B.	Fr., M. E.	311 Calvin Rd.	Henderson, N. C.
Roberts, H. D.	Fr., C. E.	Withdrew	Durham, N. C.
Roberts, Miss Jessie	Sp. (Tex.)	226 S. Salisbury St.	Toronto, Canada
Robinson, E. G.	Fr., Tex.	Trailer Camp, 5613	Lebanon, Tenn.
Robinson, Herman	So., C. E.	204 Welch, 3252	Valdese, N. C.
Rollins, Lois M.	Aud.	2212 St. Marys St.	Raleigh, N. C.
Rose, G. R., III	Sen., Ch. E.	324 Turlington, 4286	Henderson, N. C.
Rose, T. W.	Fr., E. E.	127 W. Park Dr.	Winston-Salem, N. C.
Rountree, Moses, Jr.	Jr., Ch. E.	3010 Cambridge Rd.	Goldsboro, N. C.
Rountree, R. B.	Fr., Aero.	3010 Cambridge Rd.	Goldsboro, N. C.
Royal, W. E.	Fr., C. E.	211 Berry, 4318	Erwin, N. C.
Ruark, C. S.	Grad., Ch. E.	304 Wat., 3040	Wilmington, N. C.
Rudisill, P. D.	Fr., E. E.	Withdrew	Hickory, N. C.
Ruffin, T. W.	Fr., Aero.	231 Becton, 3765	Wilson, N. C.
Rummage, L. D., Jr.	Fr., Aero.	305 Turlington, 4270	Mooresville, N. C.
Russell, L. O., Jr.	Fr., M. E.	311 Wat., 3047	Wilmington, N. C.
Russell, R. W.	Jr., Aero.	122 South, 3522	Kinston, N. C.
Ruth, F. C., Jr.	Fr., M. E.	1901 Glenwood Ave.	Raleigh, N. C.
Sadler, R. E.	Sen., Ag. Ed.	6 Becton, 3808	Burlington, N. C.
Salas, J. F.	Sp.	203 Bagwell, 3335	Tesseon Coats, Mex.
Salmela, H. A.	Grad., Exp. Stat.	215 Alex., 4144	Worcester, Mass.
Sambataro, Sam	Fr., E. E.	223 Forest Rd.	Montclair, N. J.
Sauls, H. A., Jr.		212 Welch, 3260	Charlotte, N. C.
Saunders, M. C.	Fr., M. E.	325 Turlington, 4287	Portsmouth, Va.
Saunders, W. A., Jr.	Fr., Arch. E.	2405 Dix St.	Richmond, Va.
Saylor, L. D.	Fr., E. E.	102 Berry, 4302	Stony Pt., N. C.
Schenke, F. E.	Fr., Tex.	197 Turlington, 5205	Washington, D. C.
Schlegel, F. E., Jr.	Fr., E. E.	325 Turlington, 4287	Norfolk, Va.
Schmidt, R. B.	So., Ch. E.	516 Gardner St.	Raleigh, N. C.
Schulman, D. G.	Fr., Tex.	220 Bagwell, 3352	Bronx, N. Y.
Schwatrz, S. C.	Jr., Tex. Mgt.	109 Oberlin Rd.	Baltimore, Md.
Scroggs, C. L.	Grad., Ag. Ec.	301 4th, 3127	Ashexville, N. C.
Scruggs, C. R.	So., M. E.	305 Gold, 3229	Brevard, N. C.

Name	*Classification and Curriculum*	*Dorm. Room & Box No. or Street No.*	*Home Address*
Seatz, L. F.	Grad., Agron. (Soils)		Winchester, Idaho
Seley, C. A., Jr.	Fr., M. E.	213 Bagwell, 3345	Charlotte, N. C.
Seid, J. M.	Jr., M. E.	121 Bagwell, 3331	Brooklyn, N. Y.
Seltzer, E. N.	So., FGor.	22 Becton, 3823	Concord, N. C.
Shackford, J. A.	Aud.	Dept. of English	Newport News, Va.
Shapard, E. S.	Sp. (Tex.3	Box 211, Garner	Griffin, Ga.
Shapiro, W. H.	Fr., Aero.	2210 Hope St.	Charlote, N. C.
Sharkey, F. A.	Fr., M. E.	Trailer Camp, 5004	Albemarle, N. C.
Sharpe, E. E.	So., Aero.	114 Wat., 3014	Burlington, N. C.
Shaw, A. T., Jr.	Fr., Arch.	408 N. Wilmington St.	Raleigh, N. C.
Shaw, W. H.	Sp. (Tex.)	332 Syme, 3596	Reidsville, N. C.
Sheets, H. D.	Fr., Aero.	Fieldhouse	Charleston, W. Va.
Shelden, R. E. H.	Jr., C. E.	204 Bagwell, 3336	Camp Forrest, Tenn.
Shepherd, J. N., Jr.	Fr., M. E.	303 Hillcrest Rd.	Greensboro, N. C.
Shepherd, R. M.	So., Ch. E.	1619 St. Marys St.	Weldon, N. C.
Sherman, J. W.	Fr., E. E.	322 Alex., 4185	Fairhaven, Mass.
Shetley, T. A.	Fr., Ch. E.	316 Bagwell, 3382	Dallas, N. C.
Shropshire, R. A., Jr.	So., Ch. E.	Withdrew	N. Wilkesboro, N. C.
Shull, G. H.	Fr., Ag.	322 Syme, 3586	Shelby, N. C.
Siff, M. S.	So., Tex.	131 Alex., 4126	Winston-Salem, N. C.
Sigmon, W. H.	Fr., Arch.	217 Wat., 3035	Salisbury, N. C.
Simerson, H. Y.	Sen., Tex. Mfg.	1027 W. South St.	Spencer, N. C.
Skinner, B. A., Jr.	Jr., Arch. E.	111 Syme, 3511	Charlote, N. C.
Smart, W. W. G., Jr.	Grad., Ag. Ch.	309 Bagwell, 3375	Shelby, N. C.
Smith, B. P.	Fr., Aero.	130 Bagwell, 3330	Fayetteville, N. C.
Smith, C. G.	Fr., Ag.	109 Turlington, 4206	Norwood, N. C.
Smith, C. L., Jr.	Fr., C. E.	231 Bagwell, 3363	Aberdeen, N. C.
Smith, D. R.	Fr., Ag.	139 Alex., 4131	Hackensack, N. J.
Smith, E. C.	So., Ind. E.	1628 Oberlin Rd.	Norfolk, Va.
Smith, E. D., Jr.	So., M. E.	311 Alex., 4174	Durham, N. C.
Smith, G. B.	Fr., E. E.	304 Alxe., 4170	Charlotte, N. C.
Smith, H. O.	Fr., E. E.	309 Turlington, 4272	Charlote, N. C.
Smith, J. E.	So., M. E.	203 Berry, 4310	Charlote, N. C.
Smith, L. M., Jr	Grad., An. Prod.	307 Gold, 3231	Rocky Mount, N. C.
Smith, N. W.	Fr., M. E.	105 Becton, 3705	Forest City, N. C.
Smith, P. L.	Fr., Tex.	8½ Maiden Lane	Goldsboro, N. C.
Smith, Walton	So., E.	123 Syme, 3523	Wilmington, N. C.
Smith, Wm. Edward	Fr., E. E.	214 Syme, 3546	Dorchester Mass.
Solow, R. I.	So., For.	Box 125, Cary	Cary, N. C.
Sox, J. L., Jr.	So., Ch. E.	2126 Woodland Ave.,	Raleigh, N. C.
Spiers, H. R.	So., Cer. E.	133 Becton, 3733	Winston-Salem, N. C.
Spinks, J. D., Jr.	Fr., C. E.	227 Turlington, 4255	New York, N. Y.
Sprung, I. J.	So., C. E.	311 Turlington, 4273	Walkertown, N. C.
Stack, V. T., Jr.	So., Ch. E.	118 Becton, 3718	York, S. C.
Stacy, J. E.	So., Ag.	103 Syme, 3503	Allenton, N. C.
Stansel, D. B.	Fr., C. E.	125 Becton, 3725	Clayton, N. C.
Starling, C. O.	Fr., Tex.	1907 Alexander Rd.	Raleigh, N. C.
Stevens, J. E.	Jr., Aero.	231 Turlington, 4259	Riverside, Conn.
Stewart, J. M.	So., Tex.	130 Woodburn Rd.	Clifty, Tenn.
Stewart, O. C., Jr.	Fr., Ag. Ed.	331 Syme, 3595	Mount Airy, N. C.
Stimpson, J. E., Jr.	So., Tex.	304 Berry, 4324	Greensboro, N. C.
Stockard, B. B., Jr.	Fr., M. E.	135 Turlington, 4230	Thomasville, N. C.
Stout, A. P.	So., Arch. E.	2801 Oberlin Rd.	Raleigh, N. C.
Strawbridge, E. W.	Sen. M.E.	2512 Stafford Ave.,	Raleigh, N. C.
Streb, W. A.	Fr. Ind. E.	2219 Circle Dr.	Raleigh, N. C.
Strickland, P. D.	Jr., Tex. Mfg.	212 W. Morgan St.	Morganton, N. C.
Stroupe, G. N.	Jr., M. E.	128 Syme, 3528	Savannah, Ga.
Sullivan, H. T.	Fr., M. E.	113 Alex., 4110	Statesville, N. C.
Summers, L. N., Jr.	So., C. E.	205 4th, 3123	Princeton, N. J.

Name	*Classification and Curriculum*	*Dorm. Room & Box No. or Street No.*	*Home Address*
Surrant, J. G.	Fr., Arch. E.	Trailer Camp, 5333	Ch arlotte, N. C.
Swink, L. J.	Fr., Tex.	203 Syme, 3535	Woodruff, S. C.
Talley, D. M., Jr.	Fr., Gen. E.	130 Woodburn Rd.	San Antonio, Texas
Taylor, K. L.	Fr., E. E.	130 Syme, 3530	Burlington, N. C.
Taylor, W. R.	Fr., C. E.	105 Turlington, 4204	Wilson, N. C.
Terry, J. M.	So., Tex.	127 Syme, 3527	Mebane, N. C.
Thomas, W. I.	Fr., C. E.	College Y. M. C. A.	Greensboro, N. C.
Thompson, Frank, Jr.	Fr., M. E.	41 Trailer Camp, 5592	
Thompson, L. S.	Fr., C. E.	220 Glascock St.	Smithfield, N. C.
Thorne, E. C.	Fr., M.E.	234 Bagwell, 3366	Slm City, N. C.
Thrift, B. G.	Fr., Tex.	410 N. Blount St.	Raleigh, N. C.
Triplett, S. R.	Fr., M. E.	134 Becton, 3734	Granite Falls, N. C.
Trogdon, W. H.	Fr., E. E.	215 Becton, 3749	Asheboro, N. C.
Troxler, H. P.	Fr. Tex.	329 Syme, 3593	Greensboro, N. C.
Troxler, R. T.	Grad., Ind. Arts	323 Shepherd St.	Elon College, N. C.
Tucker, C. E.	Fr., C. E.	302 Berry, 4322	South Boston, Va.
Turlington, C. M.	Fr., Ch. E.	206 Gold, 3218	Lumberton, N. C.
Turnage, J. A.	Fr., E. E.	13 Becton, 3815	Greenville, N. C.
Turnbull, R. J.	Fr., Tex.	1623 St. Marys St.	Raleigh, N.C.
Tyson, M. E., Jr.	Fr., Aero. E.	212 Mecton, 3746	Elkin, N. C.
Ucer, M. I.	Spec.	304 Becton, 3772	Istanbul, Turkey
Vaughn, W. O.	So., M. E.	301 Berry, 4321	Winston-Salem, N. C.
Veach, E. J.	So., Ag.	Cary	Cary, N. C.
Veach, J. F.	So., Gen. E.	220 Syme, 3552	Thomasville, N. C.
Verbeck, A. R.	Fr., For.	215 Alex., 4144	Staten Island, N. Y.
Vick, D. B.	So., M. E.	Academy St., Cary	Sanford, N. C.
Vick, J. W.	Fr., C. E.	206 Gold, 3218	Nashville, N. C.
Wadsworth, T. J.	So., Ind. E.	10 Enterprise St.	Washington, D. C.
Walcoff, Harry	So., Tex.	28 Shepherd St.	Trenton, N. J.
Ward, C. H.	So., Tex.	135 Alex., 4128	High Point, N. C.
Ward, M. F.	Fr., E. E.	125 Syme, 3525	Leaksville, N. C.
Warren, D. R., Jr.	Jr., An. Prod.	222 Syme, 3554	Dunn, N. C.
Warren, W. A.	Fr., E. E.	305 Bagwell, 3371	Rural Hall, N. C.
Watson, E. G.	Fr., M. E.	116 Becton, 3716	Winston-Salem, N. C.
Watson, John Arch	Fr., M. E.	38 Trailer Camp, 5533	Fayetteville, N. C.
Watson, J. D.	So., M. E.	308 Berry, 4328	Durham, N. C.
Watson, J. L.	Fr., C. E.	126 Bagwell, 3326	New Bern, N. C.
Watts, B. A.	Fr., For.	Field House	McDonald, Ohio
Webb, L. H.	Fr., E. E.	115 Becton, 3715	Windsor, N. C.
Weekley, D. D.	Fr., Aero. E.	Field House	Irvin, Tenn.
Weeks, J. L.	Fr., Tex.	1009 W. Peace St.	Halifax, N. C.
Wehunt, S. P., Jr.	Fr., C. E.	233 Bagwell, 3365	Cherryville, N. C.
Weinreich, Howard	Fr., Arch	228 Alex., 4157	Lawrence, N. Y.
Welch, C. D.	Grad., Agron (Soils)	204 Gold, 3216	Albright, W. Va.
Weldon, Virginia	Auditor		
Welker, C. W.	Fr., C. E.	320 Becton, 3788	Wilmington, N. C.
Wells, F. C.	Fr., Ag.	223 Bagwell, 3355	Teachley, N. C.
Wessell, Hardy	Fr., C. E.	131 Turlington, 4227	Wilmington, N. C.
West, P. M.	Fr., For.	310 Becton, 3778	Sheffield, Alabama
West, S. C.	Fr., Arch. E.	Chapel Hill	Roanoke Rapids, N. C.
Westbrook, S. E.	Jr., Dairy Mfg.	116 Forest Rd.	Dunn, N. C.
Westmoreland, R. H.	Fr., Tex.	115 Alex., 4112	Troutman, N. C.
Wharton, W. L., Jr.	Sr., For.	211 Welch, 3259	Winston-Salem, N. C.
Wheeler, J. H.	Fr., C. E.	115½ Park Ave.	Raleigh, N. C.
White, Jack Edward	Fr., Ch. E.	601 Hinsdale St.	Raleigh, N. C.
White, Julian Elder, Jr.	Jr., Dairy Mfg.	627 E. Jones St.	Raleigh, N. C.

Name	*Classification and Curriculum*	*Dorm. Room & Box No. or Street No.*	*Home Address*
White, W. E.	Fr., E. E.	6 N. Bloodworth St.	Raleigh, N. C.
Whiteside, Blount, Jr.	Fr., C. E.	201 Syme, 3533	Clinton, N. C.
Whitesides, C. N.	Fr., Tex.	203 Chamberlain	Charlotte, N. C.
Widenhouse, P. W.	Fr., Aero. E.	301 Berry, 4321	Concord, N. C.
Wilkinson, W. A. Jr.	So., M. E.	32 Trailer Camp, 5583	Concord, N. C.
Williams, H. L.	Fr., E. E.	11 Dixie Trail	Goldsboro, N. C.
Williams, I. P.	Fr., Ag.	127 Becton, 3727	Haw River, N. C.
Williams, James Clyde	Fr., E. E.	318 Becton, 3786	Winston Salem, N. C.
Williams, P. R.	So., Aero. E.		Wilson, N. C.
Williams, R. G.	Fr., M. E.	303 Berry, 4323	Godwin, N. C.
Williams, R. H.	Fr., E. E.	1525 Carr St.	Washington, N. C.
Williford, C. L.	Fr., For.	238 Turlington, 4263	Norfolk, Va.
Williford, W. C.	Jr., Agron. (F. C.)	209 Welch, 3257	Elm City, N. C.
Willis, C. Z.	So., Ag.	Country Club Homes	
Willis, R. J., Jr.	Fr., E. E.	321 Becton, 3789	La Grange, Ga.
Willis, W. R.	Fr., Cer. E.	305 Becton, 3773	Hartsville, S. C.
Wilson, C. S., Jr.	Fr., Occ.	331 Becton, 3799	Charlotte, N. C.
Wilson, D. H.	Fr., E. E.	209 Syme, 3541	Selma, N. C.
Wilson, J. W., Jr.	Jr. Ag. Ed.	307 N. Bloodworth	Raleigh, N. C.
Wilson, Sidney Ann	Grad., Ru. Soc.	1808 Park Dr.	Raleigh, N. C.
Wilson, W. B., Jr.	Fr., Aero. E.	213 Bagwell, 3345	Hendersonville, N. C.
Winn, W. C.	Jr., Land. Arch.	232 Syme, 3564	Norfolk, Va.
Winstead, C. C.	Fr., Arch.	307 Becton, 3775	Roxboro, N. C.
Winston, G. C.	Jr., E. E.	215 Becton, 3749	Baltimore, Md.
Winston, T. B.	Fr., Tex.	223 Becton, 3757	Greensboro, N. C.
Wolf, Kenneth	So., Tex.	223 Turlington, 4251	Brooklyn, N. Y.
Womack, J. L., Jr.	Fr., Gen. E.	325 Syme, 3589	Reidsville, N. C.
Wood, R. B.	Sr., Aero. E.	2109 St. Marys St.	Tampa, Fla.
Woodard, T. W.	Fr., E. E.	215 Becton, 3749	Bailey, N. C.
Woodard, Wm. Walter	Fr., Tex.	304 Alex., 4170	Charlotte, N. C.
Woods, F. W.	So., Tex.	204 Alex., 4136	Covington, Va.
Woodward, W. F.	Fr., Tex.	114 Turlington, 4211	Winston-Salem, N. C.
Wooten, F. L., Jr.	Sr., Ch. E.	Arlington St., 5612	Winston-Salem, N. C.
Wrenn, W. B.	Fr. Arch. E.	314 Syme, 3578	Oxford, N. C.
Wright, J. H., Jr.	So., Gen. E.	216 Bagwell, 3348	Middlesex, N. C.
Wright, J. R.	Fr., Aero. E.	316 Alex., 4179	Wilkesboro, N. C.
Wynn, W. G.	Fr., C. E.	136 Woodburn, Rd.	Goldsboro, N. C.
Wynne, O. T.	Fr., For.	133 Alex., 4127	Asheville, N. C.
Yarborough, W. D., Jr.	Fr., Tex.		Wingate, N. C.
Yarbrough, F. L.	So., E. E.	218 Becton, 3752	Hendersonville, N. C.
Yates, H. P.	Fr., C. E.	10 Enterprise St.	Chadbourn, N. C.
Yelton, V. W., Jr.	Fr., Tex.	Trailer Camp, 5584	Spindale, N. C.
York, W. C., Jr.	Fr., Arch.	12 Enterprise St.	Greensboro, N. C.
York, W. E., Jr.	Fr., Ch. E.	123 Woodburn Rd.	Chocowinity, N. C.
Young, Douglas	Fr., Ag.	329 Becton, 3797	Louisburg, N. C.
Young, G. L.	Fr., C. E.	3149 Stanhope Ave.	Raleigh, N. C.
Young, W. S.	Fr., M. E.	134 Becton, 3734	Forest City, N. C.
Younger, S. S.	Fr., E. E.	2731 Everett Ave.	Gibsonville, N. C.
Yumlu, M. A.	Spec.	5 Becton, 3807	Turkey
Zeckendorf, S. L.	Sr., Pl. Path.	105 Syme, 3505	Newark, N. J.
Zukerman, B. M.	So., For.	220 Alex., 4149	New York, N. Y.