

Juanita Stott

Seventy-first

Annual Commencement

The North Carolina State College
of Agriculture and Engineering of
the University of North Carolina

127 Honors
36 H Honors

Exercises of Graduation

May List — Page 5

July, Aug., Feb. — Page 26
Sunday May 29

Nineteen Hundred and Sixty

Degrees Awarded 1959-60

Errors on pages 14, 20

Notified Mrs. Stilson in Dean Stewart's
office these corrections should be
made in the copy they have bound.
July 29, 1960.

MUSICAL PROGRAM

Exercises of Graduation

WILLIAM NEAL REYNOLDS COLISEUM

May 29, 1960

CONCERT, 9:30 A.M.

Marche Slave	<i>Tschaikovski</i>
Polka and Fugue from Schwanda	<i>Weinberger</i>
Amparito Roca	<i>Texidor</i>
Beguine	<i>Osterling</i>
Pieces of Eight	<i>Jenkins-Neff</i>

PROCESSIONAL, 10:00 A.M.

Processional March	<i>Borowski</i>
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RECESSIONAL

University Grand March	<i>Goldman</i>
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HYMN

Faith of Our Fathers	<i>Hemy-Faber</i>
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Faith of our fathers, living still
In spite of dungeon, fire, and sword,
O how our hearts beat high with joy
Whene'er we hear that glorious word!
Faith of our fathers, holy faith!
We will be true to thee 'till death.

Faith of our fathers, we will love
Both friend and foe in all our strife,
And preach thee, too, as love knows how
By kindly words and virtuous life:
Faith of our fathers, holy faith!
We will be true to thee 'till death.

THE NORTH CAROLINA STATE COLLEGE SYMPHONIC BAND

Robert A. Barnes, Conductor

J. Perry Watson, Assistant Conductor

COMMENCEMENT PROGRAM

Exercises of Graduation

William Neal Reynolds Coliseum

May 29, 1960

PROCESSIONAL, 10:00 A. M. _____ Robert A. Barnes
Director, North Carolina State College Symphonic Band
The audience is requested to remain
seated during the processional

EXERCISES OF GRADUATION, 10:30 A. M.

PRESIDING _____ John T. Caldwell
Chancellor, North Carolina State College

INVOCATION _____ Oscar B. Woodridge
Coordinator of Religious Affairs

HYMN _____ Faith Of Our Fathers

SCRIPTURE READING _____ Acts 17:16-17; 22-31

SERMON.... "The City Was Full of Idols".... The Reverend Dr. Theodore O. Wedel
*Canon of Washington Cathedral (Episcopal)
District of Columbia*

PRAYER

REMARKS TO THE GRADUATING CLASS _____ Luther H. Hodges
Governor of North Carolina

ANNOUNCEMENTS

AWARDING OF GOODWIFE DIPLOMAS _____ Haden Edward Knox
President of Student Government

CONFERRING OF DEGREES _____ John T. Caldwell
Chancellor, North Carolina State College
John W. Shirley
Dean of the Faculty

Candidates for baccalaureate degrees presented
by Deans of Schools. Candidates for advanced
degrees presented by Walter J. Peterson, Dean,
Graduate School,

REMARKS TO THE GRADUATING CLASS _____ John Phillips Carlton
President, Class of 1960
William C. Friday
President, Consolidated University of North Carolina

BENEDICTION

RECESSIONAL

The audience is requested to remain seated
until recessional music is concluded.

DIPLOMA PRESENTATIONS, 2:15 P.M.

<i>School</i>	<i>Dean</i>	<i>Location</i>
Agriculture	D. W. Colvard	College Union Ballroom
Design	H. L. Kamphoefner	307 Brooks Hall
Education	J. B. Kirkland	Josephus Daniels Junior High Oberlin Road
Engineering	J. H. Lampe	Coliseum
Forestry	R. J. Preston	West Raleigh Presbyterian Church Horne Street
Textiles	M. E. Campbell	Nelson Textile Building

DEGREES CONFERRED

May 29, 1960

School of Agriculture 9541



BACHELOR OF SCIENCE IN AGRICULTURAL ENGINEERING 6✓

Jointly administered by Schools of Agriculture and Engineering

John Gilbert Alphin		Mount Olive
Howard Eli Bollinger		Lenoir
†Richard Conard Fluck	AGE	Salisbury
James Clyde Hutchins	AGE ASE	Mocksville
Charles Franklin Letchworth		Kinston
Allen Ray Overman	AGE	Pikeville

BACHELOR OF SCIENCE

Agricultural Economics 104✓

Clarence Bynum Adams, Jr.		Raleigh
Bobby Ray Badgett	(Got 2 degrees in this dept and counted twice in totals + ranking)	Dobson
Whitson LeGrand Benton, Jr.		Fuquay-Varina
John Phillips Carlton		Pinetops
Clyde Phillip Dickens		Fuquay Springs
Berkwood Malcolm Farmer		Ringgold, Va.
Horace Blainey Hord		Shelby
†Jerry Thomas Murray		Burgaw
Robert Pittman Proctor		Saratoga
†Edsel Hughett Thompson		Smithfield

Agricultural Engineering 7✓

William Harold Eddins		Wadesboro
John Joel Locke		Enfield
MAG †Richard Alton Mewborn	AGE	Snow Hill
†Arbon Wayne Overcash	AGE	Salisbury
MAG †Joseph Adrian Powell	AGE	Spring Hope
Eugene Murray Simmons, Jr.		Scotland Neck
James Thomas Spence, III	AGE	Pink Hill

†Honors; ‡High Honors.

2 in Mech. Agric.
1 in Agr. Eng.

Animal Industry 23. ✓

Leonard Leon Allen	Roanoke Rapids
Samuel Ellis Byrd	Ranseur
Joe Carr Cansler	Troutman
Edwin Tucker Conner	Clover, Va.
John Walter Etchison	Mocksville
Bernard Woody Ferguson	Clyde
*Grover Audrey Gore	Wadesboro
Billy Grayson Johnson	Asheboro
William Ransom Johnston	Littleton
Rufus Nelson Leonard	Wake Forest
James Harvey Lilley	Gatesville
Wayne Miller McLaughlin	Moorestville
†Robert Martindale Pilch	Basking Ridge, N. J.
Phillip Haines Plyler	Winston-Salem
Wilson Allen Slaughter, Jr.	Blanche
Lathan Fielding Smith, Jr.	Troutman
Daniel Bruce Stroup	Waco
Albert Clinton Sutton, Jr.	Asheville
Roland Kenneth Swing	Lexington
†Grady Dallas Ward	Cullowhee
Henry Wise Webster, III	Red Springs
Joe Madison Williams	Statesville
Theodore Sanford Zeller	Columbus, Ohio

Botany 1 ✓

†Robert Lewis Hoffman	Gloucester Point, Va.
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Chemistry 4 ✓

†Robert Gail Knowles	Wilson
Glenn Wayne Patterson	China Grove
‡James Charles Turner	Roanoke Rapids
Hugh Braxton Wilder	Selma

Dairy Manufacturing 4 ✓

Myron Gilbert Adams, Jr.	Raleigh
*Elbert Gordon Brown	Charlotte
†Marvin Eugene Howell	Oak City
Alton Jackson Sheek	Mocksville

Field Crops 10 ✓

Billy Reid Apple	Gibsonville
Carl Harrison Boone	Nashville
William Rix Dean, Jr.	Louisburg
Fred Daniel Foster	Henderson
Jonathan Winfield Hooks	Kentley
Raeform Earl Langdon	Smithfield
Robert Willard Luther, Jr.	Elizabeth City
Thomas Harold Pearman	Reidsville
Larry Craig Roberson	Washington
Roger Allen Spencer	Swan Quarter

†Honors; ‡High Honors.

*In Absentia

Horticulture 4 ✓

James Thomas Garrett Liberty
 Donald Robert Huffman Lilesville
 George Roscoe Hughes Ash
 Snyder Franklin Williams Rose Hill

Plant Protection 1 ✓

Edgar Laura Boyd Washington

Poultry Science 2 ✓

Jay Freeman Wilfong Newton
 †John Hybert Williamson Clarkton

Rural Sociology 2 ✓

Ralph Larry Forbes Raleigh
 Edwin Forrest Martin, Jr. Kinston

Soils 2 ✓

Thomas Lester Blackmon Four Oaks
 Cecil Fisher Bullard, Jr. Fayetteville

Zoology 19 ✓

†Richard Wesley Adams Winston-Salem
 John James Burns Rosedale, N. Y. WCM
 †Everett Dalrymple Cashatt ASW Spray WCM
 John Marion Collins Elkin WCM
 John Philip Edwards ASW Pinetops
 Thomas Leroy Francis ASW Waynesville
 John Paul Hardister, Jr. ASW Kannapolis
 Richard Thomas Huber ASW Raleigh
 †Paul Landis Keyes ASW Ashland, Va.
 Richard Douglas Knox ASW Greensboro
 Cecil Thomas Lewis, Jr. ASW Henderson
 Forest Stevenson Long ASW Elkin
 †Ronald Lee Mauldin ASW Concord
 Tony Brooks Pearce ASW Zebulon
 †Harry Lothrop Powe, Jr. ASW Greensboro
 Joseph Henry Prendergast ASW Raleigh
 Lester Andrew Smith ASW Kernersville
 †Wallace Lee Trent ASW Kernersville
 Bill Reuben Wobbleton ASW Williamston

†Honors; †High Honors.
 *In Absentia

W. H. ...

School of Design 20



BACHELOR OF ARCHITECTURE 17 ✓

woman

Herman Howard Babb, Jr.	Raleigh
Donald Reed Chandler	Durham
David John Hall	Syosset, N. Y.
Arthur James Hammill, Jr.	Gastonia
Wilbourne Easley Hamner	Newport News, Va.
Virginia Carolyn Hendricks	Matewan, W. Va.
George Bonson Hobson, Jr.	Charlotte
Robert Cheek Ingram	Kenansville
James Felix Kluttz	Concord
Praise Connor Lee	Raleigh
William Clyde McGee, Jr.	Concord
Royal Harrison Minshew, Jr.	Asheboro
Bobby Carlton Rogers	Raleigh
James McMillin Stevenson	Henderson
William Edison Valentine	Whiteville
Lloyd Guy Walter, Jr.	Charlotte
Richard Lockmann Wilkinson	Winston-Salem

BACHELOR OF LANDSCAPE ARCHITECTURE 3 ✓

Max Delano Evans	Charlotte
Jimmy Haynes Kluttz	Salisbury
Giacomo S. Vincelli	Montreal, Canada

School of Education 86



BACHELOR OF SCIENCE IN AGRICULTURAL EDUCATION 23 ✓

Alvah Wilbert Alexander, Jr.	Creswell
†Wallace Riddick Baker, Jr.	Belvidere
Julius Mull Boggs	Lawndale
†Robert Lawrence Daughtry	Conway
†Ira Carroll Gore	Tabor City

†Honors; ‡High Honors.

†Everette Filmore Hartzog	West Jefferson
Oscar Hallett Hilburn	Elizabethtown
Ned Yarkin Hudson	Concord
Benjamin Upchurch Kittrell	Kittrell
Haden Edward Knox	Davidson
James Hector Langdon, Jr.	Angier
Wayne Thomas Livengood	Carthage
Norman McArthur	Broadway
Wendell Holmes Murphy	Rose Hill
Ernest Stanley Owen	Fayetteville
Victor Edsel Penny	Garner
James Sauls, Jr.	Warsaw
†John William Smith	Fountain
Ronald Chris Spivey	Chadbourn
Howard Lewis Waynick	Statesville
Gerald Spencer White	Youngsville
Bobby Louis Wicker	Lillington
Joseph Luther Williams	Rose Hill

BACHELOR OF SCIENCE IN INDUSTRIAL ARTS

35 ✓

David Joseph Baker	Oxford
Maylon Cloice Baker	Zebulon
•Paul Lawrence Balonick	Dubois, Pa.
Donnie Franklin Beasley	Benson
Isaac Leroy Bigham, Jr.	Raleigh
Ralph Lee Blackwood, Jr.	Chapel Hill
Robert Leroy Blankenship	Cherokee
Bobby James Brown	Mooreville
Charles Hugh Cates, Jr.	Henderson
Richard Everette Curlee	Raleigh
Allen Eugene Edwards	Spring Hope
James Dwight Gregson, Jr.	Liberty
†William Oscar Hooks	Fremont
William Lafayette Hudson	Roanoke Rapids
Ray Eugene Jackson	Mount Airy
Jack Curmis Key	Robbins
•John Anthony Lawrence	Heidelberg, Pa.
Carl Eugene Ledford	Gastonia
Joseph Dibrell Mosheim, Jr.	Raleigh
Merritt Leslie Murray	Greensboro
Phares Steavens Nye	Shannon
Kenneth Talmadge Pearce	Zebulon
Joseph Wilson Pool, III	Elizabeth City
Robert Earl Salisbury	Beaufort, S. C.
•Gilbert Schwartz	Raleigh
Augustus Donald Scott	Currie
Lester Gould Simpson, Jr.	Jacksonville
Vernon Ray Stevens	Goldboro
Edward Rodin Sugg	Smithfield
James Monroe Talley	Hopewell, Va.
Ronald Leon Thompson	Laurinburg
Robert Henry Walker	Yanceyville
Thomas Edward Wallace, Jr.	Charlotte
Hobert Earl Williams	Robbins
Frank Earle Wynne, Jr.	Williamston

†Honors; ‡High Honors.

•In Absentia

BACHELOR OF SCIENCE IN MATHEMATICS EDUCATION 17 ✓

Philip Burton Bennett	Raleigh
Clarence Hicks Cannady	Dunn
†Homer Preston Coulter, Jr.	Newton
Spiro Nicholas Glaros	Greensboro
Alvin McGowan Hardison	Williamston
†Herbert Carlisle Henley, Jr.	Chapel Hill
William Ronald Keen	Rich Square
Joseph Samuel Murrow	Robersonville
†James Franklin Ormand, Jr.	Gastonia
Paul Benjamin Ridge	High Point
William Lawrence Roper	Engelhard
†Edwin Murray Rudisill, Jr.	Gastonia
John Shelton Smith	Raleigh
William Carey Stainback	Youngsville
Benjamin Montague Sugg, Jr.	Kinston
William Walter Trivett	Boone
†Charles Floyd Ward	Whiteville

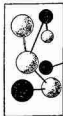
BACHELOR OF SCIENCE IN RECREATION AND PARK ADMINISTRATION 8 ✓

Dan Wilson Englehardt	Seymour, Ind.
James Coleman Greiner	Richmond, Va.
James Robert Lambert, Jr.	South Bend, Ind.
Frank Joseph Marocco	Aliquippa, Pa.
James Allen Overby	Norlina
Ford Clarence Rowell	Rocky Mount
Thomas Earle Sherman	Hendersonville
Stacy Allen Wells, Jr.	Wilmington

BACHELOR OF SCIENCE IN SCIENCE EDUCATION 3 ✓

<i>Woman</i> Nancy Ann Moody	Raleigh
Archie Lincoln Pierce	West Jefferson
Herbert Anton Vitale	New Hyde Park, N. Y.

School of Engineering 489 ✓



BACHELOR OF SCIENCE IN CERAMIC ENGINEERING 4

*Thomas Coble Coleman	Burlington
†Thomas Wayne Krimminger	Mount Pleasant
†Robert Douglas McBrayer	Forest City
George Luther Winchester, Jr.	Raleigh

†Honors; ‡High Honors.

*In Absentia

BACHELOR OF SCIENCE IN CHEMICAL ENGINEERING 40

David Winfield Abee	Rutherford College
†Benjamin Alegranti	Guatemala, Guatemala
David Conrad Beam	Lawndale
George Gordon Blankford, Jr.	Raleigh
Kenneth Evans Conley	Shelby
Richard Horace Crockett, Jr.	Ames, Iowa
†Samuel Franklin Culberson	Siler City
Aubrey Thomas Davis	Hertford
†Max Ray Davis	Forest City
†James Francis Deal, III	Landis
†William Carl Drake	Hendersonville
William Ray Garwood	Cooleemee
William Brevard Glover	Charlotte
Charles Gotuaco	Manila, Philippines
Jack Norman Gray	Williamston
Carlos Dario Gutierrez	Mexico City, Mexico
†Hasday Habib	Havana, Cuba
Bob Vernon Harris	Morganton
James Robert Harvey	Pacolet, S. C.
Jesse Tyler Holden	Pisgah Forest
Roy Austin Hutchins	Gastonia
Charles Arthur Johnson	Asheville
Wing-Kai Lee	Hong Kong
†William Marcus Massey, Jr.	Wilmington
Robert Edward May	Kinston
†James Allen Merricks	Reidsville
Norman Thomas Metters	Statesville
Bryce Hood Moore	Spindale
Thomas Robert Morena	Rutherford, N. J.
Thomas Jenkins Pons	Valdese
Rolfe Reusing	Asheville
Edgar Vernon Safrir, Jr.	Salisbury
†James Adams Shurtleff	Binghampton, N. Y.
†Alton Grey Tilley	Westfield
Charles Kenneth Warlick	Polkville
Max Lane Warlick	Lawndale
Samuel Alvin Weaver	Raleigh
Harold Robert Weeks	Mexico City, Mexico
William Burrus Wright, Jr.	Asheville
James Dennis Yopp, Jr.	Wilmington

BACHELOR OF SCIENCE IN CIVIL ENGINEERING 71

Forest Wayne Adkins, Jr.	Raleigh
Knud Dennis Alber	St. Lucia, Pinar del Rio, Cuba
Gilbert Ray Alligood	Washington
Charles David Averette	Elizabethtown
William Cleveland Baker	Kinston
William Kenneth Bartlett, Jr.	Asheville
Donald Lee Basinger	Salisbury
William Carroll Beard, Jr.	Fayetteville
Joseph Gilbert Berry, Jr.	Vienna, Va.
†David Eugene Blake	Wilmington
Joe Leonidas Blevins	Crumpler
Earl Brafford	Gastonia
Duane Harps Bruch	Wendell

†Honors; ‡High Honors.

William Donaldson Campbell	Charlotte
Richard Noel Clement	Lenoir
Robert Lane Clement	New Bern
Lawrence James Cooke, Jr.	Elizabethtown
Jerry Gorrell Coram	Boonville
†James Lewis Covil	Wilmington
Joseph Martin DeBruhl	Goldsboro
Richard Louis DeCoste	Basking Ridge, N. J.
David Walter Duncan	Hickory
Croom Maurice Faircloth, Jr.	Clinton
Charles Vannon Faulkenberry	Lowell
David Jonas Finkelstain	Lima, Peru
Herbert Clyde Fox, Jr.	Atlanta, Ga.
Leon Parks Frazier	Statesville
William Max Frazier	Statesville
Joseph Mark Freemon, Jr.	Burlington
Simon Brown Hager	Stanley
Derle Grey Hagwood	Raleigh
Louis Stanton Hales	Stantonsburg
Robert Crawford Harrison	Alexandria, Va.
Keith Raymond Harrod	Raleigh
Benny Wallace Helton	Hendersonville
Hugh Douglas Hudgins	Fayetteville
†Andrew John Manning Hutchins, Jr.	Canton
Jan Stewart Jensen	Asheville
†John Hicks Johnson, Jr.	Raleigh
Herman Edgar Kennedy, Jr.	Siler City
Hugo Oscar Liem, Jr.	Conover
Kenneth Denimal Lloyd, Jr.	Raleigh
George Edmund Lohr, Jr.	Lincolnton
George Waters Mann, Jr.	Bartow, Fla.
Eric Julius Matzke	Wilmington
Richard Brinsley Meehan, Jr.	Asheville
Olin Jackson Meeks	Leaksville
Crawford Bowman Moore	Franklin
Sidney Clyburn Moore, Jr.	Durham
Samuel Howard Napier	Hamlet
Billy Franklin Narron	Kenly
‡Gordon Norman Owen, Jr.	Aruba, Netherlands, West Indies
Edward Donald Owens	Winston-Salem
George Cooper Parrish	Louisburg
George Thomas Phillips	Scotland Neck
John Oscar Pivin	Bristol, R. I.
‡Jack Kenneth Poplin	Norwood
†Jack Ward Provost	Hubert
Clark Delano Readling	Cornelius
Carl Bryant Richardson, Jr.	Bunn
James Donald Samuels	High Point
Harold O'Neil Seagraves	Kannapolis
Jerry Alan Smith	Lenoir
‡Larry Baxter Smith	Marshville
Woodley Kendall Smith	Deep Run
Howard Franklin Snyder	Sanford
Jess Augustus Sullins, Jr.	Asheville
James Osker Ward	Wilmington
James Paul Weaver, Jr.	Rocky Mount
John Billy Wiles	Kannapolis
William Tucker Winder, Jr.	Alexandria, Va.

†Honors; ‡High Honors.

BACHELOR OF SCIENCE IN CIVIL ENGINEERING, CONSTRUCTION OPTION 26

Ernest Stevenson Arthur, Jr.	Greensboro
Frederick Carew Ayers	Greensboro
William Pitt Bizzell	Fayetteville
John Thompson Brown, Jr.	Concord
William Wesley Clayton	Charlotte
David Leon Cloer	Hickory
Joseph Patrick Collins	Brooklyn, N. Y.
Edmund Bernard Cook	Concord
Gerald Thomas Drum	Greenville
William Penman Franklin	Wilson
Richard Lee Hedgecock	Asheboro
Thomas Montague Hunt, Jr.	Durham
Marshall Ezra Jennette	Norfolk, Va.
†Frederick Robert Jetter	New York, N. Y.
Victor Wynne McPherson	High Point
Donald Luther Moss	Hickory
Lawrence Charles Olin	Miami Beach, Fla.
Arnold Sherwood Pittman	Selma
James Michael Redmond	Ridgewood, N. J.
William Elwood Reeves	Hallsboro
John David Smith, III	Leaksville
Paul Madison Stephens, Jr.	Rocky Mount
Grady Eugene Thomas	Landis
Fred Erwin Whitesell	Pinehurst
Robert Ransom Williams, III	Asheville
Thomas Lee Wilson	Statesville

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING 89

†Charles Lamar Aderholdt	Cherryville
John Nicholas Agnos	Winston-Salem
Glenn Alber	Copenhagen, Denmark
George Lewis Allen, Jr.	Reidsville
Charles Luther Andrews	Greensboro
George Calvin Atkins	Apex
†Robert Leon Beadles	Hayesville
Charles Lewis Bittinger, Jr.	Mooreville
†Roy Baxter Blake, Jr.	Winston-Salem
John Alfred Bowman	Maple Valley, Wash.
Frederick Eugene Butler	Wilmington
Wesley Lee Carroll	Youngsville
Thomas Robert Cathey	Havelock
Christian Dominique Charron	Rocky Mount
*Gus Thomas Costas	Greensboro
Henry David Cranfill	Raleigh
James Rodwell Crawley	Jacksonville, Fla.
Thomas Davis Currie	Raeford
Thomas Mortimer Ellington, Jr.	Asheville
Troy Dean Ellington	Concord
†Allen Jefferson Fuller	Liberty
Billy Thomas Funderburk	Monroe
Roger Burns Gaskins	Fayetteville
*†Hyatt McDonald Gibbs	North Wilkesboro

†Honors; †High Honors.
*In Absentia

negro -

Ralph Gibson	Statesville
†Charles Buddy Goodwin	High Point
‡Jerry Sanders Harris	Washington
‡John Reid Hauser	Advance
James Ralph Hawkins, Jr.	Charlotte
Jimmy Vincent Hawley	Charlotte
Thomas Robert Hay, Jr.	Andrews
†John Sprunt Hill, II	Durham
Daniel Alexander Hilliard	High Point
Richard Takayuki Hirata	Weaverville
Irwin Richard Holmes, Jr.	Durham
Edward Franklin Holt	Salisbury
Samuel Giles House	Lincolnton
Harry Hood Hudson	Waxhaw
Malcolm David Jones	Laurinburg
Robert Cebe Keever	Mount Mourne
Jack Craig Kennedy	Thomasville
Bryce McNeely Kephley	Salisbury
Robert Norman Key	Mount Airy
Robert Lee Keyser	Burlington
Ray Allen Lambert	Winston-Salem
Charles Mohun Lambright	Landrum, S. C.
James Avon Lanier	Lillington
Frank David Leatherman	Lincolnton
†Edwin Lawrence Lowery, Jr.	Wingate
Daniel Rlee McIntyre	Oakboro
John Hugh McNeill	Red Springs
Robert Calhoun McNeill	Laurel Hill
Fredrick Tibbett Meeks	Wadesboro
Darrell Vance Menser	Statesville
Gary Dennis Miller	Albemarle
William Spencer Miller	Lewisville
†Glenwood Jefferson Mitchell, Jr.	Newport News, Va.
‡Larry King Monteith	Asheville
‡James Orval Mutton	Asheville
Dewey Thomas O'Kelley, Jr.	Spring Lake
Victor Marlin Powley	Harrisburg, Pa.
David Marion Presley	Asheville
James Clinton Reavis, Jr.	Moravian Falls
†Reginald Maurice Rhue	Swansboro
Paul Willard Rice	Asheville
Harry Charles Rudd, Jr.	Portsmouth, Va.
†Harvey Ralston Saunders	Franklinville
†William Ford Shepherd	Lausing
Harvey William Sigmon	Brevard
Tillman Byrd Smith	Fuquay-Varina
†Robert James Solomon	New York, N. Y.
William Conrad Spencer	Goldsboro
Charles Raymond Stott	Wendell
Michael Albertus Stroupe	Bessemer City
Herman Reginal Tharrington, Jr.	Bunn
Jack Maxton Thomas	Sanford
Stanley Walter Timblin	Durham
Donald Lee Trotter	Winston-Salem
Roger Blair Turner	Gastonia
†Edgar Myron Underwood, III	Sanford

†Honors; ‡High Honors.

William Deaton Wagner	Charlotte
Jacob Lightsey Wallace, Jr.	Charlotte
†William Randolph Watson, Jr.	Raleigh
Jack Carroll Weaver	Greensboro
Robert Lee Webster	New Orleans, La.
Hobart Augustus Whitman, III	Asheville
Russell Garrett Wicker	Greensboro
James Speed Williams	Durham
Billy McCoy Winkler	Granite Falls
Christian Heinrich Witke, III	Wilson

BACHELOR OF SCIENCE IN ENGINEERING MATHEMATICS 23

Donald Ray Abernathy	Raleigh
†Joel Vincent Brawley, Jr.	Mooreville
Shakespeare Harris Caldwell, Jr.	Concord
*Monroe Ernest Evans	Fayetteville
†John David Fulton	Norton, Va.
James Ralph Hawkins, Jr.	Charlotte
John Franklin Heafner	Cherryville
Leon Henderson, Jr.	Washington, D. C.
Harvey Alan Horowitz	Oxford
<i>Worham</i> Stella Joseph	Lima, Peru
Paul Froneberger Long	Bessemer City
Ingram Blair McLeod, Jr.	Winston-Salem
Samuel McManus	Albemarle
†John Aubrey Miller	Statesville
†Gordon Joseph Poole	Raleigh
Robert Tracy Shillinglaw	Asheville
†Robert Edmund Singleton	Raleigh
†Jack Boyd Turner	Old Fort
James Franklin Walker	Burlington
James Felton Watson, Jr.	Kenly
Robert Lee Webster	New Orleans, La.
†John Tunstall Welch, Jr.	Oxford
†James Adams Woodward	Suffolk, Va.

BACHELOR OF SCIENCE IN ENGINEERING PHYSICS 6

†Roy Lunsford Champion, Jr.	Wilson
†*Hyatt McDonald Gibbs	North Wilkesboro
Robert Jones Loftin	Thomasville
†Edwin Lawrence Lowery, Jr.	Wingate
Larry Edward Pond	Davis
†Edwin Arthur Shearin	Windsor, Conn.

BACHELOR OF SCIENCE IN FURNITURE MANUFACTURING AND MANAGEMENT 12

Daniel Edwin Barkley	Morganton
Walter Louis Bean, Jr.	Lenoir
Billy Gibson Beason	Boiling Springs
Harry Glenroy Grier, Jr.	Gastonia
William John Julius Kropp, II	Fort Smith, Ark.
Donald Jackson McCall	Drexel
Gene Cleveland McCracken	Raleigh
Vassar Cameron Matthews, Jr.	Thomasville
Robert Bennett Miller	Lenoir
Jobie Gene Redmond	Waynesville
Marshall Newton Swann	Rockingham
Robert Wade Younts	Spray

†Honors; ‡High Honors.

*In Absentia

BACHELOR OF SCIENCE IN GEOLOGICAL ENGINEERING 5

Robert Lee Davis, Jr.	Salisbury
Michael Austin Haas	Demarest, N. J.
Theodore Phineas Konkle	High Point
Clyde Edward Simmons	Gastonia
Anthony Gerald Spinello	Brooklyn, N. Y.

BACHELOR OF SCIENCE IN HEATING AND AIR CONDITIONING 13

Robert Freeman Hibbard	Raleigh
John Daniel Hinton	Rocky Mount
Shirley Fred McCray	West Columbia, S. C.
James Robert McLester	Rockingham
James David Murphy	Leaksville
William Richard Petty	Graham
Rodney Lee Pittman	Rocky Mount
Thomas Murray Richmond, Jr.	Greensboro
Elmer James Robinson	Liberty
James Allen Story	Lenoir
Robert Bradley Thomason, Jr.	Lexington
Clarence Anderson Tillery, Jr.	Raleigh
Bobby Carroll Turner	Cherryville

BACHELOR OF SCIENCE IN INDUSTRIAL ENGINEERING 28

†Robert Douglass Adams	Charlotte
Robert Thompson Adams	Winston-Salem
Sidney Elihue Briley, Jr.	Greenville
Jerry Wayne Bullin	High Point
†Carol Dale Burgason	Stromsburg, Neb.
Robert Eugene Chapman, Jr.	Raleigh
James Thomas Cullinan, Jr.	Cheraw, S. C.
Douglas Eugene Eades	Mount Holly
Thomas Mortimer Ellington, Jr.	Asheville
Maxwell Brooks Fogleman, II	Charlottesville, Va.
William Roy Foss	Adair, Iowa
Richard Lee Gentry	Reidsville
†Harry Clinton Grimmer	Willard
Boyce Wayne Harwell	Newton
†Leonard Emanuel Lavitt	Flushing, N. Y.
Thomas Frederick Lilly	Burlington
James Thomas McCorkle	Charlotte
James Donald Moffitt	Staley
William Nathan Moore	Statesville
Vernon Clayton Poindexter	East Bend
Howard Leo Pruitt, Jr.	Mount Airy
Forrest Richard Redden, Jr.	Winston-Salem
James Robert Rettinger	Schuylkill Haven, Pa.
Graham Hodge Sanders	Elizabeth City
Mark Albert Seidenstein	Newport News, Va.
†Charlie Shackleford, Jr.	Aurora
†Ronald Carter Steorts	Princeton, W. Va.
†Paul Eugene Yoder	Winston-Salem

BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING 102

Derek Alber	Minas de Matahambre, Pinar del Rio, Cuba
David Caldwell Alexander	Charlotte
†Joseph Patrick Archie, Jr.	Kinston

†Honors; ††High Honors.

Charles Nelson Baker	Henderson
†Fred Eugene Baker	Conover
Gary Steve Barrett	Gastonia
William Arthur Bissette	Goldsboro
Luther Edgar Bivins	Chevy Chase, Md.
Mitchell Lee Bowers	Thomasville
Jack Alfred Brady	Salisbury
Delbert Ray Brooks	Fayetteville
James Lyndon Brown	Winston-Salem
Larry James Bullock, Jr.	Williamston
Donald Eugene Burnette	Asheville
†Richard Stephen Buynitzky	Washington, D. C.
†Francis Cameron Carter	Winston-Salem
Robert Mahlon Chiles	Sanford
Robert Carroll Clark	Asheville
†John William Coats	Newport News, Va.
Arthur Gwynne Cockman	Pittsboro
Russell Preston Cockman	Pittsboro
Emmit Franklin Cole	Wilson Mills
Julius Theadford Compton	Durham
Howard Wayne Copenhaver, Jr.	Morganton
James Howard Cornwell	Murphy
George Couturier	Raleigh
†Robert Lewis Cowardin	Charlotte
Vernard Ray Crouse	Plant City, Fla.
‡James Uriah Crowder, Jr.	Asheville
Ronald Kendall Culp	Badin
George Edward Daughtridge	Rocky Mount
Conrad Alvin Davis	Leaksville
Charles Lacey DeBoard	Grassy Creek
Richard Tolliver Duke	Sanford
Cecil Lloyd Duncan	Chapel Hill
Layton John Everitt	Dover, N. J.
Robert Smith Farrell	Graham
Marvin Moore Calloway	Asheboro
William Wright Gardner	Wilmington
Charles Houston Gay, Jr.	Charlotte
†Richard Clarke Gwaltney	Durham
Allan Hammer	Brooklyn, N. Y.
†Robert Hunter Holladay	Suffolk, Va.
Winston Thompson Hooker	Aurora
Billy Eugene Inman	Pilot Mountain
Dan Cary Johnson	Rocky Mount
James Frederick Jones	Scotland Neck
†Arnold Lumsden Joslin	Raleigh
Robert Allen Justus	Hendersonville
Thomas Dickson Kendrick	Charlotte
†Bobby Gray Kiger	Winston-Salem
†Herman Montroe Kiger, Jr.	Winston-Salem
Allen Calhoun King	Salisbury
Carey Albert Kinney	Wilson
†Charles Gordon Kirkman, Jr.	Mocksville
Louis Arnold Kiser, Jr.	Kings Mountain
Lacy Fleming Langdon	Coats
Clifton Eugene Lemons	Greensboro
Richard Kenneth Lemons	Draper
Charles Sidney Livengood	Salisbury
†Romulus Odell Livengood	Winston-Salem
Zebulon Vance Long	Tarboro

†Honors; ‡High Honors.

Kerry Chadwick McGuinn	Spartanburg, S. C.
William Monroe McLaurine, III	High Point
Homer Livingston Mason	Fayetteville
Douglas Knight Moore	Roseboro
Paul Merritt Moore	Southport
Harley Lorenzo Mudge, Jr.	Raleigh
John Henry Newlin, Jr.	Danville, Va.
†Fritz Hermann Ernst Oertel, Jr.	Raleigh
Carl Christopher Pace	Tryon
†Robert Gaston Pearce, Jr.	Henderson
Frederick James Pearson	Saluda
Neil Eugene Reeling	York, Pa.
Victor Ludwig Reitz, Jr.	Charlotte
Carl Vann Rich	Castalia
James Joseph Richardson	Gamboa, Canal Zone
Ronald William Robarge	Winston-Salem
George Albert Robinson, Jr.	Greensboro
†David Arthur Roseveare	Greenville
James Montraville Sevier	Asheville
†William Norman Sharpe, Jr.	Chapel Hill
Vann Matthews Sistare	Charlotte
Alfred Green Smith	Kinston
Drexel Kermit Smith	Kinston
Thomas Edwin Smith, Jr.	Sanford
Thomas Richard Stadler	Elon College
Ralph Bennie Stotesberry	Chester, Va.
Lyman Earl Summerlin	Greensboro
Jerry Oliver Sweet	Kannapolis
Stephen Delynn Talbert	Spray
†Graham Merriett Talbott	Wallace
Robert Baker Todd	Chapel Hill
Bradley Yates Tyson	Wadesboro
James Edward Ward	Rose Hill
Robert Warren Waters	Roanoke Rapids
Robert Clinton Webber	Olivia
Roy Selwyn White	Hamptonville
*James Andrew Williams	Marion, Va.
James Grey Williams	Bunn
Stacey Allen Wood	Raleigh
John Nicholas Yantsios	Salisbury

BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING, AERONAUTICAL OPTION 31

John Davis Alston	Gold Sand
Calvin Curtis Anderson	Tarboro
Bobby Franklin Bundy	Concord
Joe Lee Byrd	Concord
Raymond Lynn Casler	Teaneck, N. J.
†John Charles Clark, Jr.	St. Pauls
William Ray Conley	Marion
Mittrey Amon Courie	Kinston
Bobby Harold Croom	Zebulon
Donald Martin Dawkins	Rockingham
Hilton Allen Edwards	Washington
Bobby George Gragg	Greensboro
Ronald Holland Henson	Forest City
Phillip Leroy Hughes	Oxford
†Alfred Wilmer Jordan	Weldon

†Honors; †High Honors.

*In Absentia

†Claude Esben Lee, Jr.	Burlington
Ralph Donald McNeely	Drexel
Thomas Michael McPherson	Durham
James Lynn May	La Grange
Jesse Franklin Montgomery, III	Smithfield
†Cecil Leon Neal, Jr.	Caroleen
†Douglas Yates Perry	Zebulon
Herbert Charles Rose, Jr.	Raleigh
Craven Monroe Sloop, Jr.	Charlotte
Earl Terry Smith	Hamlet
Gordon Lewis Smith	High Point
†Furman Yates Sorrell, Jr.	Wadesboro
†David Warren Stallings	Thomasville
Thomas Warren Wahab	Belhaven
Philip Pershing Yarborough	Lexington
Ivan Yopp	Raleigh

BACHELOR OF SCIENCE IN METALLURGICAL ENGINEERING 5

Robert Andrew Draughn	Wilson
†Roger Allen Gregg	Lenoir
William Nevyn Rankin, III	Winston-Salem
Gary Singleton Sheffield	Greensboro
†Earl Ryan Thompson	Lenoir

BACHELOR OF SCIENCE IN NUCLEAR ENGINEERING 34

†Michael Rives Alford	Raleigh
†Norman Earl Banks	New Bern
William Fred Beamer, Jr.	Mount Airy
†Carrol Reid Bingham	Lawndale
†Jimmie Solomon Daughtry	Princeton
Arthur William Fihelly	Alexandria, Va.
†Henry Lee Fisher, Jr.	Mount Pleasant
Harrison Alexander Giles, Jr.	Roanoke Rapids
Thomas Haywood Goodin, Jr.	Statesville
James Daniel Hewett	Shallotte
†Nicholas Bennett Koepp-Baker	Highlands
Max Alfred Koontz	Kannapolis
Joseph Mortimer McGough, Jr.	Fayetteville
Samuel McManus	Albemarle
William Howard Marley	Southern Pines
William Carlton Nester	Gladys, Va.
Harvey Clyde Nix, Jr.	Asheville
James Peter Oggerino	Huntington, N. Y.
Robert Linwood Olson	Charlotte
Paul David Peterson	Lenksville
Richard Van Poe	Siler City
John Riley Ross, Jr.	New Bern
†Charles Harold Rutherford	Grassy Creek
Arthur Moses Samia	Goldsboro
John Whitside Samouce	Fayetteville
†Jerry Albert Sawyer	New Bern
†Thomas Edmund Schultz	Winston-Salem
John Leon Seymour	Southern Pines
Charles Edward Stewert	Louisville, Ky.
Larry Eugene Smith	Fayetteville
Robert Lawrence Stevens	Winston-Salem
Ronald Sherrill Taylor	Charlotte
†James Elwyn Watson, Jr.	Red Springs
Colman Barnes Woodhall	Durham

†Honors; ‡High Honors.

School of Forestry

56 ✓



BACHELOR OF SCIENCE IN FOREST MANAGEMENT 28

†Peter Witter Barnard	Riparius, N. Y.
Virgil Felix Batten	Whiteville
George Harley Belt, Jr.	Hyattsville, Md.
Ronald Marshall Bost	Kannapolis
Robert Felix Brake	Halifax
†David Lee Bramlett	Asheville
Leonard Glaser Breeman	Kona
Charles William Brinkley	Salisbury
William Chester Carrigan	China Grove
Wallace Graham Cawthorne	Henderson
Talmadge Whitley Collier	Wade
Coleman Anderson Doggett	Shelby
Campbell Davis Eskridge	Shelby
Frederick Sayre Hasenoechl	Washington, D. C.
Alfred Ray Hollowell	Plymouth
Julian Willie Howell	Hertford
Thomas Giles Hunter	Sweepsonville
†James Wilburn McMinn	Asheville
James Pinckney Pridgen	Salisbury
†James Hall Roberds	Garden City, Ga.
Patrick Cowan Rose	Coeburn, Va.
Herbert William Scheld, Jr.	Statesville
John McClayton Scott	Charlotte
†Charles Wallace Selden, III	Richmond, Va.
Dale Allen Sutton	Bryson City
Lucius Rives Taylor, Jr.	Jackson
Joseph Bennett Vinson	Raleigh
†Ralph Scott Wallinger	Ashland, Va.

BACHELOR OF SCIENCE IN PULP AND PAPER TECHNOLOGY 20

Jerry Nelson Beasley	Sylva
†Dwarka Prasad Bhargava	Mathura, U. P., India
James Robert Carpenter	Shelby
Charles David Carter	Kingsport, Tenn.
Terrell Wayne Corkern	Georgetown, S. C.
Avery David Fary, Jr.	West Point, Va.
Jack Martin Frank	Plymouth
Edwards Reid Hinson, Jr.	Charlotte
Phillip Parker Holland	Franklin, Va.
Thomas Wilson Kirkpatrick	Clyde
Stanley Stephen Luczycki	Great Bend, N. Y.
Kindred Pope Magette	Courtland, Va.
*Edgar Larry Mizell	Bogalusa, La.

†Honors; ‡High Honors.
*In Absentia

Alfred George Hofmann

New York, N. Y.

†Melvin Louis Moody	_____	West Point, Va.
Teddy Lee Robinson	_____	Lincolnton
*†Norman Arnold Russell	_____	Raleigh
Jesse Hobson Scott, Jr.	_____	Franklin, Va.
Kenneth Edward Steppe	_____	Lynchburg, Va.
Charles Allen Tanner, III	_____	Lynchburg, Va.
John Reid Thompson	_____	Candler

BACHELOR OF SCIENCE IN WOOD PRODUCTS MERCHANDISING 3

George Klearchos Eliades	_____	Lumberton
Richard Wilson Sherwood	_____	Fairfield, Conn.
Sam Taylor Smathers	_____	Canton

BACHELOR OF SCIENCE IN WOOD TECHNOLOGY 5

Stephen David Brewer	_____	Pittsboro
Jerry Hassell Fox	_____	Roxboro
Chester Arthur Honeycutt, Jr.	_____	Asheville
Thomas Meade Irvin	_____	Brookville, Pa.
†Ralph Melvin Nelson, Jr.	_____	Asheville

School of Textiles 38 ✓



BACHELOR OF SCIENCE IN TEXTILE CHEMISTRY 12

†Volker Dietrich Sigrat August Arendt	_____	Elberon, N. J.
Charles Edgar Daniels	_____	Kinston
Charles Gotuaco	_____	Manila, Philippines
Alexander Jackson Kepley	_____	Lexington
Wing-Kai Lee	_____	Hong Kong
Elbert Stanley Mullis	_____	Haw River
John Richard Newell, Jr.	_____	Greenville
†William Clay Smith	_____	Spindale
James Titus Swicegood	_____	Lexington
Delton Reitzel Thompson	_____	Salisbury
Robert Lee Ward, Jr.	_____	Mount Holly
Robert Wayne West	_____	Mars Hill

BACHELOR OF SCIENCE IN TEXTILE TECHNOLOGY 26

†Benjamin Alegranti	_____	Guatemala, Guatemala
Chester Alden Arnold	_____	Raleigh
*Hugh Clements Bennett, Jr.	_____	Raleigh

†Honors; ‡High Honors.
 *In Absentia

102

George Waring Boys, Jr.	Tuxedo
Samuel Wilbur Brummitt	Henderson
Daniel Hydrick Cash, Jr.	Rutherfordton
John Kenneth Culbreth, Jr.	Woodruff, S. C.
Everett Coleman Drake, Jr.	Baldwin, N. Y.
† Thomas Avon Fuller	Franklinton
Donald Julius Gardner	Dunn
Charles O'Briant Gentry	Ca-Vel
† Hasday Habib	Havana, Cuba
William Alexander Hall, Jr.	Hickory
† Donald Max Joyce	High Point
James Wilson Lancaster	Red Springs
Kenneth Clarke Loughlin, Jr.	Charlotte
Anthony Jasper Maltese, Jr.	Glen Rock, N. J.
Wilbur Baine Martin, Jr.	Charlotte
John David Medford	Clyde
James Godwin Moore	Rocky Mount
† James Norman Moser	Mount Pleasant
*† L. G. Nithianandan	Tirupur, India
Robert Harris Pope, Jr.	Cedar Grove
Henry Saffran	Brooklyn, N. Y.
Thomas Niel Swanger	Skaneateles, N. Y.
Larry David Warrington	New Bern

Professional Degrees 2

CHEMICAL ENGINEER 1 ✓ ✓

James Milton Sell Winston-Salem

CIVIL ENGINEER, SOIL MECHANICS AND FOUNDATION OPTION 1 ✓ ✓

Harold Wilbur Landrum Wilson

Master's Degrees 60

May 29, 1960



— MASTER OF AGRICULTURE 2 ✓ ✓ ✓

Junius Kenneth Maxwell Pink Hill

Horace Leslie Miller Green Creek

† Honors; ‡ High Honors.

* In Absentia

— MASTER OF AGRICULTURAL ENGINEERING ^{1VV}
*Boonrit Suchinda _____ Chiangmai, Thailand —

— MASTER OF AGRICULTURAL EDUCATION ^{1VV}
*Gilbert Joseph Ward _____ Jefferson —

— MASTER OF INDUSTRIAL ARTS ^{1VV}
Carroll Watson Smith _____ Travelers Rest, S. C.

— MASTER OF OCCUPATIONAL INFORMATION AND GUIDANCE ^{1VV}
Hazel Virginia Clarke _____ Durham

— MASTER OF WOOD TECHNOLOGY ^{1VV}
*Wesley Emil Loos _____ Buffalo, N. Y.

MASTER OF SCIENCE ⁵³

— Department of Agricultural Economics ^{1VV}
Maurice Elton Thigpen _____ Garner

— Department of Agricultural Engineering ^{1VV}
Ervin Grigg Humphries _____ Shelby

— Department of Animal Industry ^{1VV}
Sidney John Lyford, Jr. _____ Brentwood, N. H.

— Department of Chemistry ^{3VV}
*Carl Crisco, Jr. _____ High Point
Avery Jake Dennis _____ Louisburg
Wilma Graye Johnson Shaw _____ Fayetteville

— Department of Entomology ^{2VV}
Alfredo Saldarriaga _____ Medellin, Antioquia, Colombia
Oswaldo Flavio Vargas _____ Lima, Peru

— Department of Experimental Statistics ^{2VV}
Merritt Milford Goff _____ Frankfort, Ind.
*Abdel-Khalek Mahmoud Zikry _____ Cairo, Egypt

— Department of Horticulture ^{1VV}
Martin Laval McIntyre _____ Raleigh

— Department of Plant Pathology ^{3VV}
Charles Wilson Averre, III _____ Raleigh
Philip Duskin Dukes _____ Reevesville, S. C.
August John Nielsen _____ Edneyville

— Department of Soils ^{2VV}
Ricardo Garcia-Lagos _____ Isla, Veracruz, Mexico
Horace Gill Hilton _____ Delta, Utah

— Department of Industrial Psychology ^{2VV}
Helen Eyster Crisp _____ Raleigh
*James Brown Grier _____ Charlotte

*In Absentia

27
EMOR

Department of Chemical Engineering 2 ✓
 Pierre Francois Lepoutre _____ Croix, France
 *Dewey Richard Whitaker _____ Lake Junaluska

Department of Civil Engineering 6 ✓
 James Donald Blackburn _____ Mount Airy
 Donald Norris Bridges _____ Shelby
 Harvey Ray Joyner _____ Elm City
 David Morris _____ Shelby
 Robert William Roseveare _____ Greenville
 Columbus Edwin Vick, Jr. _____ Wilmington

Department of Electrical Engineering 1 ✓
 Edward Eugene Bohe _____ Fayetteville, Ark.

Department of Industrial Engineering 1 ✓
 Richard Oscar Grant, Jr. _____ Wilmington

Department of Applied Mathematics 7 ✓
 William Floyd Campbell _____ Hampton, Va.
 David Lloyd Flanagan _____ Raleigh
 Jafar Hoomani _____ Tehran, Iran
 Jerry Allan Roberts _____ Landis
 *Robert Garner Savage _____ Penderlea
 Bruce Nichols Tilley _____ Durham
 Samuel Crews Walden _____ Tabor City

Department of Mechanical Engineering 3 ✓
 Hubert Paul Barringer _____ Bessemer City
 Laurence Neuman Connor, Jr. _____ Barnwell, S. C.
 Elliot Brewer Grover _____ Raleigh

Department of Mineral Industries 3 ✓
 Fawzy Hussein Hammad _____ Alexandria, Egypt
 Richard Horace Redwine _____ Rural Hall
 *Ismail Abdel-Hadi El-Shanshoury _____ Alexandria, Egypt

Department of Physics 4 ✓
 William Young Epling _____ Virginia Beach, Va.
 Arthur John Gross _____ Lincoln, Neb.
 *Russell Osborne Lyday, Jr. _____ Greensboro
 *Claude Ghislain Poncelet _____ Brussels, Belgium

SCHOOL OF FORESTRY 3 ✓

John Pierson Churchill _____ Syracuse, N. Y.
 James Thomas Rice _____ Birmingham, Ala.
 *Earl Ray Sluder _____ Minneapolis

SCHOOL OF TEXTILES 5 ✓

Nabil Tewfik Costandy _____ Cairo, Egypt
 *Rohitkumar Mojilal Desai _____ Ahmedabad, India
 *Tung Kau Heung _____ Hong Kong
 Chia Ren Jin _____ Shanghai, Rep. of China
 *Eugene Edward Moody _____ LaGrange, Ga.

*In Absentia

Doctor of Philosophy Degrees 14

Dissertation: William Albert Berg, Soils.
A theory of ion exchange behavior in iron oxide-kaolinite systems.

Dissertation: *Richard Lawson Bernard, Field Crops.
The breeding behavior and interrelationships of some pod and seed traits of peanuts.

Dissertation: Foster Bernard Cady, Jr., Soils.
Gaseous nitrogen products resulting from denitrification reactions in soils.

Dissertation: *Jorge Gelbolingo Davide, Soils.
Phosphate studies in flooded soils.

Dissertation: *David Ross Dilley, Botany.
The assimilation of isotopic carbon and nitrogen labeled urea into the amino acids of apple and peach leaves.

Dissertation: David William Gaylor, Experimental Statistics.
The construction and evaluation of some designs for the estimation of parameters in random models.

Dissertation: James Ennis Grizzle, Experimental Statistics.
Application of the logistic model to analyzing categorical data.

Dissertation: William Leroy Hafley, Experimental Statistics.
Some comparisons of sensitivities for two methods of measurement.

Dissertation: *Gerald Stanley Lellouche, Physics ^{NE}.
Nonlinear space dependent reactor kinetics.

Dissertation: Paul Henkle McGinnis, Jr., Chemical Engineering.
A study of velocity distributions and rheograms for laminar pipe flow of pseudoplastic fluids.

Dissertation: Aden Combs Magee III, Animal Industry.
An investigation of growth, copper metabolism, and iron metabolism of rats fed high levels of zinc.

Dissertation: Ellsworth Chapman Maine, Plant Pathology.
Physiological responses in the tobacco plant to pathogenesis by *Pseudomonas solanacearum*, causal agent of bacterial wilt.

Dissertation: John Oren Rawlings, Field Crops.
Theoretical analyses of double-cross and three-way hybrid populations.

Dissertation: James Edward Shelton, Soils.
Residual phosphate studies on a piedmont red loam.

12 in School of Agri.
2 in " " ^{Exp.}

1 Chem. Engr. ✓	1 Botany ✓
1 Physics ✓	4 Soils ✓
1 An. Ind. ✓	2 Field Crops ✓
	1 Plant Pathology ✓
	3 Exp. Stat. ✓
	<hr/> 1.4

DEGREES CONFERRED

July 17, 1959 40 Bach., 6 Mast., 5 Ph. D's
 August 27, 1959 36 Bach., 28 Mast., 8 Ph. D's
 February 1, 1960 161 Bach., 3 Prof., 45 Mast., 14 Ph. D's
 237 Bach., 74 Mast., 3 Prof., 27 Ph. D's

School of Agriculture 44



BACHELOR OF SCIENCE IN AGRICULTURAL ENGINEERING 2 ✓

Jointly administered by Schools of Agriculture and Engineering

George Wilbur Hawkins, Jr. (February, 1960) ACE Durham
 Larry Hugh Patterson (February, 1960) China Grove

BACHELOR OF SCIENCE 4 ✓

Agricultural Economics

James Shirley McCoy (February, 1960) Durham
 William Walter Parish (February, 1960) Wendell
 John Avery Scism (August, 1959) Kings Mountain
 †Charles Brown Whitley, Jr. (February, 1960) Charlotte

Agricultural Engineering 3 ✓

†Shelby Stuart Buckner (February, 1960) Mars Hill
 Willis Cranmer Umstead (February, 1960) Garner
 John Bruce Whitley (February, 1960) Charlotte

Animal Industry 7 ✓

James Carl DeBrew (February, 1960) Shelby
 Julian Hall Edwards (July, 1959) Rich Square
 Harvey Devereaux Ginn (February, 1960) Snow Hill
 Wilbur Green Howard (February, 1960) Raleigh
 †Harold Reid Lineberger (February, 1960) Dallas
 Wayne Aubrey Ward (July, 1959) Denton
 †Grover Washington Westmoreland (February, 1960) Troutman

†Honors; ‡High Honors.

Dairy Manufacturing 2 ✓

Johnny Renal McGlamery (July, 1959)..... Statesville
 Joseph Griffith Swann (February, 1960)..... Statesville

Field Crops 8 ✓

Robert Michael Angell (February, 1960)..... Mocksville
 Billy Lee Brown (February, 1960)..... Mount Airy
 Ralph Jackson Crabtree (February, 1960)..... Carthage
 Wayne Thomas Flinchum (February, 1960)..... Carthage
 William Mills Johnson (July, 1959)..... Woodland
 James Reginald Liner (February, 1960)..... Hillsboro
 Frederick Whitmell Williams (February, 1960)..... Warrenton
 Donald Hugh Williamson (July, 1959)..... Lucama

Horticulture 4 ✓

Patrick Herndon Barnes, III (February, 1960)..... Raleigh
 David Page Choate (February, 1960)..... Wilkesboro
 Jimmie Lee Crowe (February, 1960)..... Beaufort
 James Russell Hicks (February, 1960)..... Lawndale

Poultry Science 1 ✓

†Willie Leonard Payne (February, 1960)..... Asheville

Rural Sociology 2 ✓

Jack Kreth Peatross (February, 1960)..... Raleigh
 James Wright West (February, 1960)..... Turkey

Soils 3 ✓

Billy Dale Batchelor (February, 1960)..... Wilson
 Edgar Allen Cranford (July, 1959)..... Thomasville
 Billy Kerley Rowe (February, 1960)..... Louisburg

Zoology 8 ✓

Thurmond Odus Chaffin (February, 1960)..... Mocksville
 Donald Ray Daniel (February, 1960)..... Rocky Mount
 †Bruce Arthur Harrison (February, 1960)..... Quitman, Ga.
 George Andrew Hurst (February, 1960)..... Verona, N. J.
 †Joseph William Inscoc, Jr. (February, 1960)..... Newton
 Ray Roberts Lassiter (August, 1959)..... Ahsokie
 Annie Katherine Prestwood (February, 1960)..... Lenoir
 Andrew John Weber (February, 1960)..... Allentown, N. J.

†Honors; ‡High Honors.

women

School of Education

75



BACHELOR OF SCIENCE IN AGRICULTURAL EDUCATION

21 ✓

Michael Delano Aldridge (August, 1959)	Pink Hill
†Larry Ben Baxter (February, 1960)	Cherryville
Roger Cullen Bunch (February, 1960)	Edenton
Samuel Joseph Coley (February, 1960)	Stem
Bennie Mell Covington (February, 1960)	Mebane
Robert Alexander Knox (February, 1960)	Charlotte
Victor Bryant Lynn (August, 1959)	Durham
James Edd McBride (August, 1959)	Mt. Airy
Thomas Bryan Marshall, Jr. (February, 1960)	Englehard
Charles Elwood Moore (February, 1960)	Elizabeth City
Donald Herman Price (February, 1960)	Monroe
Edward Leon Roach (July, 1959)	Hayesville
†Edward Rhone Sasser (July, 1959)	Hallsboro
Boyd Idamus Sharpe (February, 1960)	Sharpsburg
Clayborn Glenn Sheets (August, 1959)	Jefferson
Thomas Sugg (August, 1959)	New Bern
†Byron Shaw Taylor (July, 1959)	Dublin
Jake Delano Vinson (February, 1960)	Roseboro
Carl Hugh Ward (July, 1959)	Nakina
Noah Linwood Ward (February, 1960)	Nakina
Robert Janadus Winston (February, 1960)	Youngsville

BACHELOR OF SCIENCE IN INDUSTRIAL ARTS

24 ✓

James Arthur Anderson, Jr. (February, 1960)	Asheville
William Siebert Barnes, Jr. (February, 1960)	Churchland
Orren Russell Bullock (July, 1959)	Chapel Hill
Gay Sharrock Corpening (August, 1959)	Tryon
Kelly Raygene Crump (February, 1960)	Lenoir
Fred Mac Davis (February, 1960)	Franklinville
Benjamin Franklin Gillikin, Jr. (February, 1960)	New Bern
John Martin Jenkins, Jr. (February, 1960)	Greensboro
Robert Lee Lankford (February, 1960)	Kannapolis
Benny Butler Leazer (August, 1959)	Mooreville
William Gardner McCrary (February, 1960)	Waynesville
Luther Lee Mason (August, 1959)	Yadkinville
Arnold Eben Nelson (February, 1960)	Charleroi, Pa.
Lemuel Hill Overton, Jr. (February, 1960)	Matthews
Harlen Devrick Phillips (February, 1960)	Kannapolis
Ronald Podwika (February, 1960)	Charleroi, Pa.
Jacob Craig Quickel (February, 1960)	Charlotte
Robert Donald Rhyne (February, 1960)	Fuquay Springs
Joseph Curtis Salmons (February, 1960)	Elkin
Donald Adolphus Seders (February, 1960)	Coolesmece
Nearous Columbus Sizemore, Jr. (February, 1960)	Winston-Salem
Robert Bennett Warlick (February, 1960)	Raleigh

†Honors; ‡High Honors.

Kinchan Glenn Weldon, Jr. (August, 1959) Henderson
Thomas Lee Younts (February, 1960) Thomasville

BACHELOR OF SCIENCE IN INDUSTRIAL EDUCATION 1 ✓

Lee Roy Armstrong, Jr. (August, 1959) Wilmington

BACHELOR OF SCIENCE IN MATHEMATICS EDUCATION 14 ✓

Willett Boyd Bennett, Jr. (February, 1960) Hendersonville
James Franklin Cook (February, 1960) Winston-Salem
Oscar Pryor Green (February, 1960) Fayetteville
George Milton Hair (February, 1960) Fayetteville
Celestino Heres-Garcia (February, 1960) Colon, Matanzas, Cuba
Joseph T. Jones (February, 1960) Wilson
Julius Arthur Kimbro, Jr. (February, 1960) Yanceyville
William Murle Moras, III (February, 1960) Raleigh
John Benneville Nygaard (February, 1960) Fleetwood, Pa.
Douglas Earl Rouse (February, 1960) Kinston
woman †Sandra Schaub (February, 1960) Apex
Dewey Ray Tedder (February, 1960) Clarkton
Edgar Harry Weber (February, 1960) Denver, Pa.
David Rudolph Wells (February, 1960) Clayton

BACHELOR OF SCIENCE IN RECREATION AND PARK ADMINISTRATION 13 ✓

Maurice Wendell Barbour (August, 1959) Fayetteville
Franklin Lewis Cackovic (February, 1960) Steelton, Pa.
‡Walter Lewis Cook (August, 1959) Raleigh
Donald Nathan Hafer (February, 1960) Port Clinton, Pa.
Herbert Bradford Hawkins (February, 1960) Raleigh
‡James Albert Lewis, Jr. (February, 1960) Dunn
Robert Andrew MacGillivray (February, 1960) Dorchester, Mass.
Kenneth Eugene Nye (February, 1960) Elizabethtown
Joseph Finley Read (February, 1960) Warrenton
Roy Allen Seese (February, 1960) Winber, Pa.
Ronald Dean Shavlik (February, 1960) Denver, Colo.
Ronald Homer Sherron (February, 1960) Fuquay Springs
‡Davié John Smith, Jr. (February, 1960) Goldsboro

BACHELOR OF SCIENCE IN SCIENCE EDUCATION 2 ✓

Ned Ray Freeze (February, 1960) Salisbury
Calvin Junior Houghton (February, 1960) Raleigh

School of Engineering 79 ✓



BACHELOR OF SCIENCE IN CERAMIC ENGINEERING }

Rodney McSwain Dixon (August, 1959) Statesville

†Honors; ‡High Honors.

BACHELOR OF SCIENCE IN CHEMICAL ENGINEERING 4

William Pinckney Doby (February, 1960)	Kannapolis
Harvey Alan Horowitz (August, 1959)	Oxford
William Hugh Latimer Westbrook, III (February, 1960)	Gumberry
William Levi Wilson (February, 1960)	Asheville

BACHELOR OF SCIENCE IN CIVIL ENGINEERING 13

Luis Nicolas Alvarez Padin (July, 1959)	San Juan, Puerto Rico
Samuel Neal Broome (July, 1959)	Charlotte
Carson Alexander Clippard, Jr. (February, 1960)	Rae ford
Charles Spurgeon Craig (February, 1960)	Durham
Richard Thomas Evans (July 17, 1959)	High Point
John Lee Hamme (February, 1960)	Warrenton
William Tommy Hill (February, 1960)	Mars Hill
†Everett Pierce Loppacker, Jr. (February, 1960)	Nutley, N. J.
Felton Lowman (February, 1960)	Connelly Springs
Bruce Medford (July, 1959)	Canton
Bobby Wayne Rogers (July, 1959)	Henderson
John Walton Sanders, Jr. (February, 1960)	Raleigh
George Perry Williams, Jr. (February, 1960)	Fairmont

BACHELOR OF SCIENCE IN CIVIL ENGINEERING, CONSTRUCTION OPTION 2

Archie Otis Melchor, Jr. (July, 1959)	Mooresville
James Reuben Wilder (July, 1959)	Raleigh

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING 7

Jon Michael Bell (July, 1959)	Raleigh
Gerald Warren Gibson (February, 1960)	Laurinburg
William Paul Jenkins, II (July, 1959)	Burlington
Joe Fredrick Kumm (July, 1959)	Huntersville
Nelson Taylor Lewis, Jr. (July, 1959)	Morehead City
Milton Dale Tetterton, Jr. (July, 1959)	South Boston, Va.
Marion Wesley Willard (July, 1959)	Winston-Salem

BACHELOR OF SCIENCE IN ENGINEERING MATHEMATICS 12

<i>Woman</i> William Benjamin Barksdale, Jr. (August, 1959)	Raleigh
†Sylvia Borders Brooks (February, 1960)	Shelby
Robert Vance Coggins (February, 1960)	Sweptonville
Milton Thomas Dooley (February, 1960)	Winston-Salem
†John Walter Dulin (February, 1960)	Rockingham
Peter Bruce Henderson (February, 1960)	Haworth, N. J.
†Edwin Lawrence Lowery, Jr. (February, 1960)	Wingate
Gene Ray Lowrimore (July, 1959)	Tabor City
William Frederick Rearick (August, 1959)	DuBois, Pa.
Henry Rodney Sink (July, 1959)	Thomasville
Ronald Sherrill Taylor (February, 1960)	Charlotte
†William Howard Wilkie, Jr. (February, 1960)	Skyland

BACHELOR OF SCIENCE IN ENGINEERING PHYSICS 3

Douglas Philip Bratten (February, 1960)	Winston-Salem
Crawford Paul Miller (July, 1959)	Albemarle
James Vance Perkins, Jr. (July, 1959)	Greenville

†Honors; ‡High Honors.

BACHELOR OF SCIENCE IN FURNITURE MANUFACTURING AND MANAGEMENT 6

William Ronald Bryan (February, 1960)..... Tar Heel
 Robert Fisher Goff (February, 1960)..... Ayden
 Ronald Cooper Klutiz (February, 1960)..... Pittsburgh, Pa.
 Everette Lewis Martin (July, 1959)..... High Point
 Peter Warlick Patton, III (February, 1960)..... Morganton
 James Gill Shook (February, 1960)..... North Wilkesboro

BACHELOR OF SCIENCE IN GEOLOGICAL ENGINEERING 5

Jerry Bland Dickey (February, 1960)..... Burlington
 Tobias Westwood Goodman (August, 1959)..... Raleigh
 Frank Landrum Gore (February, 1960)..... Rockingham
 Benjamin Lewis Jones (August, 1959)..... Asheville
 John Bradsher Taylor (February, 1960)..... Yanceyville

BACHELOR OF SCIENCE IN INDUSTRIAL ENGINEERING 10

Albert Frank Bernhardt, Jr. (August, 1959)..... Charlotte
 Panickaruveedu Joseph Eipe (February, 1960)..... Kattayam, India
 John William Garris, Jr. (August, 1959)..... Goldsboro
 Joseph Darrell Ladd (August, 1959)..... Gastonia
woman Doris Florence Lane (February, 1960)..... Guaimaro, Cuba
 Dominic Mario Macrini (February, 1960)..... Cedar Grove, N. J.
 Jack Smith Reams (February, 1960)..... Raleigh
 Charles Robert Rhodes (February, 1960)..... Burlington
 Jackie Lamar Sparks (February, 1960)..... Clemmons
 Robert Rex Stephenson (February, 1960)..... Raleigh

BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING 6

Harvey Dick Lyerly (February, 1960)..... Faith
 James Willard Pryor (February, 1960)..... Winston-Salem
 Richard Vincent Putnam (February, 1960)..... Rutherfordton
 †Charles Nelson Stinnett, Jr. (July, 1959)..... Canton
 Charles Allen Wethington (August, 1959)..... Grifton
 Wade Helton Zimmerman (August, 1959)..... Murphy

BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING, AERONAUTICAL OPTION 3

Roderick Sidney Bass (February, 1960)..... Momeyer
 Elio Battista (July, 1959)..... Somerville, Mass.
 †George Kimball Miller, Jr. (August, 1959)..... Old Fort

BACHELOR OF SCIENCE IN METALLURGICAL ENGINEERING 3

Ravine Hanford (February, 1960)..... Henderson
 Ronald Gilbert Hardy (August, 1959)..... Kinston
 Allen Owen Pinner (July, 1959)..... Candler

BACHELOR OF SCIENCE IN NUCLEAR ENGINEERING 4

Wyndham Lee Clarke (February, 1960)..... Southern Pines
 †Olmedo Aurelio de Diego, Jr. (July, 1959)..... Mount Pleasant
 Thomas George James (July, 1959)..... Graham
 †Grier Elliott Whitesides (February, 1960)..... Lincolnton

†Honors; ‡High Honors.

School of Forestry 24[✓]



BACHELOR OF SCIENCE IN FOREST MANAGEMENT 16

Wilbert Theodoire Banner (February, 1960)	Sanford
John Lewis Bass (February, 1960)	Tarboro
Richard Dale Byerly (February, 1960)	High Point
Donald Gael Carr (July, 1959)	Murphy
Joseph Amory Egler (February, 1960)	Norfolk, Va.
Rodger Lonnie Hagwood, Jr. (August, 1959)	Kingstree, S. C.
Glenn Hampton (February, 1960)	Maryville, Tenn.
Harold Dean Hannah (August, 1959)	Waynesville
Kenneth Dean Henderson (February, 1960)	Spindale
John Stanley Jennings (February, 1960)	Hickory
Roy Eugene Leach (February, 1960)	Julian
Charles Franklin Moore, II (February, 1960)	Brevard
Carroll Lee Potter (February, 1960)	New Bern
Donald Haley Robbins (February, 1960)	Allenton, N. J.
Murl Everdell Seagle, Jr. (February, 1960)	Cherryville
Donald Gayle Young (February, 1960)	Asheville

BACHELOR OF SCIENCE IN PULP AND PAPER TECHNOLOGY 3

David Collins Bourne (August, 1959)	Georgetown, S. C.
John Palmer Clardy (August, 1959)	Georgetown, S. C.
Joseph Edwin McCaffrey, Jr. (July, 1959)	Georgetown, S. C.

BACHELOR OF SCIENCE IN WOOD PRODUCTS MERCHANDISING 4

Gene Ray Foust (February, 1960)	Lexington
Roy Nathan Harding (July, 1959)	Lexington, Ky.
Guy Alexander Helms, Jr. (August, 1959)	Concord
Robert Alexander McCormick (February, 1960)	Fayetteville

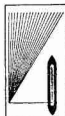
BACHELOR OF SCIENCE IN WOOD TECHNOLOGY 1

†James Dobbins McNatt (July, 1959)	High Point
------------------------------------	------------

†Honors; ‡High Honors.

School of Textiles

15 ✓



BACHELOR OF SCIENCE IN TEXTILE CHEMISTRY

1

Fe Ona Masilungan (August, 1959) San Jose, Batangas, Philippines

BACHELOR OF SCIENCE IN TEXTILES

14

Lester Kite Biedler, Jr. (February, 1960).....	Columbus
Galen Edward Chambers (February, 1960).....	Draper
Clifford Rankin Crawford, Jr. (August, 1959).....	Kinston
Roy Harold Cudd (August, 1959).....	Kannapolis
Robert John Gormley (February, 1960).....	Cranston, R. I.
Stanley Richard Mackay (July, 1959).....	Greensboro
John Kent Maness (February, 1960).....	Biscoe
James Sharples Miller (August, 1959).....	Great Neck, N. Y.
Robert Lee Nethery, Jr. (February, 1960).....	Henderson
Charles Robert Reeves (February, 1960).....	Albemarle
Lawrence Edward Spahr (February, 1960).....	Bristol, Va.
Lawrence Jay Speizman (July, 1959).....	Charlotte
Gerald Edward Veazey (February, 1960).....	Covington, Tenn.
Forrest Steve Wiggins (February, 1960).....	Youngsville

Professional Degrees

3 ✓

CIVIL ENGINEER, SANITARY OPTION

Earl Ralph Cook (February, 1960) Raleigh

ELECTRICAL ENGINEER

Carlos Silva (February, 1960) Miami, Fla.

MECHANICAL ENGINEER

James Ralph Shaw (February, 1960) Lillington

Master's Degrees 74



1 ✓✓ MASTER OF AGRICULTURE

Amresh Man Pradhanang (February, 1960) Kathamandu, Nepal

10 ✓✓ MASTER OF AGRICULTURAL EDUCATION

Paul Tunney Blizzard (August, 1959) Deep Run
 Max Gerald Dean Boles (February, 1960) Hamptonville
 Cleburn Gilchrist Dawson (August, 1959) Dunn
 Paul Edward Dew (February, 1960) Raleigh
 Clyde Atkinson Erwin, Jr. (February, 1960) Raleigh
 Joe Thurman Griffin (August, 1959) Louisburg
 Marlin Jake Herring (August, 1959) Maysville
 Robert Jack Mercer (August, 1959) Bolivia
 Charles Herman Rogers (August, 1959) Clarkton
 Ivan Cleon Yagel (February, 1960) Chapel Hill

2 ✓✓ MASTER OF FORESTRY

Henry Grady Lovin, Jr. (August, 1959) Robbinville
 Marion Galen True, Jr. (February, 1960) Eddyville, Iowa

MASTER OF SCIENCE

1 ✓✓ Department of Agricultural Economics

Paul Samuel Stone (August, 1959) Louisburg

1 ✓✓ Department of Agricultural Engineering

Jack Dee Traywick (August, 1959) Raleigh

3 ✓✓ Department of Animal Industry

Robert Louis Anderson (August, 1959) Oak Park, Ill.
 Thomas Howard Jackson (February, 1960) Edinburgh, Scotland
 Darrell Robert Van Campen (February, 1960) Santanta, Kan.

2 ✓✓ Department of Chemistry

Ting Piao Chen (August, 1959) Taipei, Taiwan, China
 Walter Leo Zielinski, Jr. (August, 1959) Staten Island, N. Y.

2 ✓✓ Department of Entomology

Walter Donald Duckworth (February, 1960) Athens, Tenn.
 Donald Marion Weisman (February, 1960) Mason, Ohio

1 ✓✓ Department of Experimental Statistics

Kenneth Eugene Rowe (February, 1960) Eaton, Colo.

3 ✓✓ Department of Field Crops

Billy Edward Caldwell (July, 1959) Newton

Achilles George Sficas (February, 1960) Athens, Greece
Billy Junior Stines (February, 1960) Raleigh

Department of Horticulture 1 ✓✓

Charles Armon Jackson (February, 1960) Benson

Department of Plant Pathology 4 ✓✓

Samuel Forest Jenkins, Jr. (February, 1960) Oxford
Frederick Robert Matthews (February, 1960) Asheville
Wallace Edward Rogers (July, 1959) Providence, R. I.
John Henry Wilson, Jr. (August, 1959) Oxford

Department of Rural Sociology 1 ✓✓

Thomas Lorimer (August, 1959) Washington, D. C.

Department of Zoology 2 ✓✓

Stephen Vincent Kaye (February, 1960) Avenel, N. J.
Edward Gordon McCoy (August, 1959) Snow Hill

Department of Industrial Psychology 2 ✓✓

Franklin Glendon Ashburn (February, 1960) Baltimore, Md.
Samuel Wilson Ward (February, 1960) Conover

Department of Occupational Information and Guidance 1 ✓✓

woman Ruth Taylor Flanagan (February, 1960) Raleigh

Department of Chemical Engineering 6 ✓✓

Richard Norwood Gurley (February, 1960) Newton
Nicolao Konstantinou Harakas (February, 1960) Greenville, S. C.
Rudolph Gordon Johnstone (February, 1960) Spartanburg, S. C.
James Reid Misenheimer (February, 1960) Shelby
Narahari Mangesh Rege (July, 1959) Bombay, India
William Dantzler Spence (February, 1960) Columbia, S. C.

Department of Civil Engineering 1 ✓✓

Leroy Kenneth Johnson (February, 1960) Osakis, Minn.

Department of Electrical Engineering 3 ✓✓

Martin Clark (February, 1960) Burlington
Lewis Thomas Fitch (February, 1960) Charleston, S. C.
Jui-ming Lee (February, 1960) Taipei, Taiwan

Department of Industrial Engineering 1 ✓✓

Hunter McGuire Woodall (July, 1959) Raleigh

Department of Mathematics 4 ✓✓

James Ray Carnes (February, 1960) Cramerton
Floyd Wilkins Elliott, Jr. (August, 1959) Charlotte
Donald Gray Lloyd (July, 1959) Fayetteville
Joel Von Perry (August, 1959) Raleigh

Department of Mechanical Engineering 7 ✓✓

Tilson Edward Chappell (August, 1959) Belvidere
Thomas Safrit Davis (February, 1960) Cliffside
Carroll Rufman Gray (August, 1959) Elizabeth City
Charles DeForest Lucas (August, 1959) Charlotte

next page

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E&R

James Meachem Potts (August, 1959) Charlotte
Frank Richard Swortzel (February, 1960) Kalispell, Mont.
James Baird Walker (February, 1960) Raleigh

Department of Mineral Industries 2 ✓

William Keith Hardy (February, 1960) Kinston
Jerry Marvin Waller (February, 1960) Hamlet

Department of Physics 5 ✓

Henry Hayne Baucom, Jr. (August, 1959) Monroe
George Jerome Kubal (February, 1960) Milwaukee, Wis.
Harry Martin Mitchell (February, 1960) Harrisburg, Pa.
Carl Eion Parker (July, 1959) Charlotte
Cheng Shin Yeh (August, 1959) Chekiang, China

Department of Forest Management 1 ✓

Emmett Frank Thompson (February, 1960) El Reno, Okla.

Department of Wood Technology 1 ✓

Paul Norman Hinz (February, 1960) Natrona Heights, Pa.

School of Textiles 6 ✓

Ahmed Abdel-Wahab El-Baz (February, 1960) El-Mansoura, Egypt
Mahmoud Ahmed Ibrahim (February, 1960) Alexandria, Egypt
Sung Won Lee (February, 1960) Seoul, Korea
Oscar Jose Palma (February, 1960) Pensacola Beach, Fla.
Joel Landrum Richardson (February, 1960) Clemson, S. C.
Robert Earl Wiggins (February, 1960) Raleigh

Doctor of Philosophy Degrees 27

- Dissertation: William Berdell Barlage, Jr., Chemical Engineering (February, 1960)
A correlation of the pulsc column liquid-liquid heat transfer.
- Dissertation: Donald Washington Bchnken, Experimental Statistics (August, 1959)
Simplex-sum designs—a class of second order rotatable desigus derivable from those of first order.
- Dissertation: John Ronald Brake, Agricultural Economics (August, 1959)
Prediction of fertilizer consumption in two regions of the United States.
- Dissertation: James Melton Brown, Soils (February, 1960)
Sorption and retention of ammonia by soils and soil materials.
- Dissertation: Robert Alexander Campbell Daulton, Plant Pathology (February, 1960)
Soil temperature and soil moisture factors affecting the survival of eggs of the root-knot nematodes *Meloidogyne javanica javanica* and *M. hapla*.
- Dissertation: Rajendra Kumar De, Entomology (February, 1960)
A study of factors influencing resistance in corn hybrids to the rice weevil, *Sitophilus oryza* (L.)
- Dissertation: Charles Foster Federspiel, Experimental Statistics (August, 1959)
An investigation of some multiple regression methods for incomplete samples.
- Dissertation: Donald Edward Foard, Botany (February, 1960)
An experimental study of sclereid formation in the leaf of *Camellia japonica*.
- Dissertation: John Broadus Funderburg, Jr., Zoology (February, 1960)
The populations, habitat relations and ecological changes in the winter birds of the Raleigh, North Carolina, region, 1880-1959.
- Dissertation: Jose Alejandro Giles, Genetics (July, 1959)
The comparative genetics of *Gossypium hirsutum* L. and the synthetic amphiploid, *Gossypium arboreum* L. x *Gossypium thurberi* Tod.
- Dissertation: Vernal Henry Gledhill, Soils (August, 1959)
Relations between ion concentration in soil solutions and the absorption of phosphate by plant roots.
- Dissertation: Dale Herbert Habeck, Entomology (July, 1959)
Insects associated with sweetpotato foliage and their relation to the dissemination of the intercal cork virus.
- Dissertation: John Robert Hamilton, Forestry (February, 1960)
Certain wood properties of southern red oak (*Quercus falcata* Michx.) in relation to location within the bole and to environment.
- Dissertation: Loyal Merlyn Hartman, Agricultural Economics (February, 1960)
Influence of federal acreage controls on costs and production practices for tobacco.
- Dissertation: Syed Ahmed Hasnain, Physics (August, 1959) NE
Analysis of burnup in fixed fuel nuclear reactors.

4 Ag. Econ. ✓	1 Genetics ✓	1 Ch. Engr. ✓
1 Adv. Ind. ✓	4 Pl. Path. ✓	1 Elec. Engr. ✓
3 Botany ✓	3 Soils ✓	2 Physics ✓
2 Entomology ✓	1 Zoology ✓	4 Engr.
3 Exp. Stat. ✓		1 Forestry ✓
	22 Agri.	27

- Joseph Havlicek, Jr., Agricultural Economics (February, 1960)
 Dissertation: Choice of optimum rates of nitrogen fertilization for corn on Norfolk-like soil in the coastal plain of North Carolina.
- Andrew Jackson Hiatt, Botany (February, 1960)
 Dissertation: Studies of the influence of salts on the activities of malic dehydrogenase and aceto-CoA-kinase from Spinach (*Spinacea oleracea*).
- William Prentiss Ingram, Jr., Animal Industry (August, 1959)
 Dissertation: The physicochemical and nutritional properties of riboflavin-active substances in soybean-oil meal.
- Clara Ju-Yuan Lin, Soils (July, 1959)
 Dissertation: Sorption capacities, ion saturation and neutralization mechanisms of clays and soils.
- David Arthur McCutchan, Physics (February, 1960) !
 Dissertation: Analysis of non-uniform nuclear reactors. —
- Marshall Ellis Mace, Plant Pathology (February, 1960)
 Dissertation: Naturally occurring quinones in wheat and barley and their toxicity to loose smut fungi.
- Abdul Jabbar Mia, Botany (August, 1959)
 Dissertation: A comprehensive investigation on the morphology of *Rauwolfia vomitoria* Afzl.
- Harold Mott, Electrical Engineering (February, 1960)
 Dissertation: The fields produced by an accelerated electric dipole at relativistic velocities.
- Travis Denton Phillips, Agricultural Economics (February, 1960)
 Dissertation: A spatial and seasonal analysis of corn prices in North Carolina.
- David Lewis Strider, Plant Pathology (July, 1959)
 Dissertation: Studies on the physiology of parasitism as related to scab of cucumber incited by *Cladosporium cucumerinum*.
- Anastasios Christou Triantaphyllou, Plant Pathology (July, 1959)
 Dissertation: Variation, post infection development and sex determination in *Meloidogyne incognita* and oogenesis in some *Meloidogyne* species.
- Malcolm Elijah Turner, Jr., Experimental Statistics (August, 1959)
 Dissertation: The single process law: a study in nonlinear regression.

Women

Recipients of Honorary Degrees

FOR THE HONORARY DEGREE OF DOCTOR OF SCIENCE

WILLIAM DUNFORD APPEL has had an eminently colorful career, both figuratively and literally. His extensive research and his publications in the field of chemistry, especially in dyeing, have earned him the reputation of a textile colorist and technologist of the first rank. His personal charm, his unselfishness, his leadership, and his wisdom have won him respect at home and abroad; and his brilliant direction of the Textile Division of the National Bureau of Standards has brought numerous citations. North Carolina State College takes pleasure in awarding him the honorary degree of Doctor of Science.

FOR THE HONORARY DEGREE OF DOCTOR OF HUMANITIES

JONATHAN WORTH DANIELS has been a "discoverer" of the South, an adviser to presidents, and, like another unconventional thinker named Socrates, a gadfly to the state. He has gloried in guiding the destiny of a great newspaper that has been called both in anger and affection *The Nuisance and Disturber*. In doing so he has accepted the legacy of an illustrious father and has ably carried his father's bright torch of liberal political thought and action. As writer, scholar, and statesman he is today tendered by this institution the honorary degree of Doctor of Humanities.

FOR THE HONORARY DEGREE OF DOCTOR OF SCIENCE

GRANVILLE MOORMAN READ holds a firm belief in education as a continuing process—especially for college professors in engineering. Thus his "Year-in-Industry" program of the Du Point Company's great engineering department has for almost a decade been offering training to the nation's ablest teaching talent in engineering. As a builder for war and a builder for peace, he has designed not only one of the major plants in the famous Manhattan Project but also the Atomic Energy Commission's ambitious project on the Savannah River. He has also found time, in some remarkable way, to serve on boards of trustees and on committees of educational institutions. To this important and busy man of education and industry North Carolina State College is pleased to award the honorary degree of Doctor of Science.

FOR THE HONORARY DEGREE OF DOCTOR OF HUMANITIES

OLIVER REAGAN ROWE represents both a waning American success story and a fine North Carolina one—a story of resourcefulness, energy, and managerial genius. From a modest beginning, Mr. Rowe was able to develop one of the major electrical engineering and construction firms of the Southeast. During World War II airplanes in every theater of operation carried engines and radar equipment of his manufacture. After the war, in an almost miraculous change-over, his plant quickly took its place as a highly important source of peace-time industrial machinery. Coupled with his career as a distinguished engineer has been another career of service to education and in community and national affairs. North Carolina State College is pleased to tender him today the honorary degree of Doctor of Humanities.

FOR THE HONORARY DEGREE OF DOCTOR OF SCIENCE

When a study machine is finally invented, many a North Carolina State College student will rise up and call BURRHUS FREDERIC SKINNER blessed. Professor Skinner's highly valuable and far-reaching researches into man's behavior, especially in the area of learning, have firmly established him as one of the most highly respected

psychologists in the country. The patterns that he has established for psychological research at Harvard have had a profound effect upon experimental studies on every significant college campus in the nation. It is a pleasure indeed to award an honorary degree of Doctor of Science to this distinguished educator.

FOR THE HONORARY DEGREE OF DOCTOR OF HUMANITIES

When THOMAS BENTON UPCHURCH was awarded Hoke County's Number One Citizen Award a decade ago, he had long been the Number One member of North Carolina's important Cotton Growers Association. And in a state where the reign of cotton has been challenged by a more delectable if somewhat less useful weed, he has been foremost in the support of research in the field of his favorite commodity. His considerable energies have also been exerted toward the development of other types of agricultural research, and he has been in the lead of many movements directed toward the solution of economic and social problems. He has continuously found time to lend positive, thoughtful, and always valuable assistance to the cause of education in North Carolina. For these reasons North Carolina State College is pleased to award him the honorary degree of Doctor of Humanities.

Awards for Achievement

1959-1960

SCHOOL OF AGRICULTURE

Agricultural Economics: Wall Street Journal Achievement Award: Berkwood Malcolm Farmer, Ringgold, Va.

Agricultural Engineering: American Society of Agricultural Engineers, Student Honor Award: Richard Conard Fluck; Salisbury.

Senior Honor Award in Agricultural Technology—Agricultural Engineering: Arbon Wayne Overcash, Salisbury.

Agronomy: Senior Highest Scholastic Average in Field Crops and Soils: Edgar Laura Boyd, Pinetown.

American Society of Agronomy Award, Most Outstanding Senior: Jonathan Winfield Hooks, Kenly.

Agronomy Club Leadership Award: Fred Daniel Foster, Henderson.

National Plant Food Institute Agronomy Achievement Award: Robert Preston Patterson, Hickory.

Animal Industry: The Fred M. Haig Trophy: William Jenkins Summey, Dallas.

Chemistry: The Chemical Rubber Company Achievement Award: David Edward Freas, Walnut Cove.

Gamma Sigma Delta: School of Agriculture Outstanding Senior Award: Charles Harvey Little, Kenly.

Horticulture: Most Outstanding Senior Award: Jimmie Lee Crowe, Forest City.

SCHOOL OF DESIGN

American Institute of Architects School Medal: Robert Cheek Ingram, Kenansville.

American Institute of Architects Book Award: William Edison Valentine, Whiteville.

Alpha Rho Chi Medal: James McMillin Stevenson, Henderson.

American Society of Landscape Architects Certificate of Merit: Max Delano Evans, Charlotte.

North Carolina Chapter of the American Institute of Architects Book Award: Lloyd Guy Walter, Jr., Charlotte.

SCHOOL OF EDUCATION

Kappa Phi Kappa Scholarship Medal: Haden Edward Knox, Davidson.

SCHOOL OF ENGINEERING

The School of Engineering Award: Gold Watch to Outstanding Senior in School of Engineering, Larry K. Monteith, Raleigh. (Senior in Electrical).

The Hamilton Watch Award: Watch awarded to a senior by Hamilton Watch Company for combined engineering and humanities studies, Gordon N. Owen, Jr., Aruba, Netherland West Indies. (Senior in Civil)

Ceramic Engineering: J. C. Steele Scholarship Cup—Awarded to an upperclassman with highest scholastic average for past year's work—Walter J. Lackey, Jr., Fallston. (Junior in Ceramics)

Chemical Engineering: American Institute of Chemical Engineers Certificate—Awarded to a junior on the basis of freshman and sophomore record—Wilbur J. Privott, Jr., Tyner.

Electrical Engineering: Eta Kappa Nu Sophomore Award—David E. Fetherston, Raleigh.

Institute of Radio Engineers Awards:

Junior Year Award—Donald L. Hester, Stanley.
Senior Year Award—James O. Mutton, Asheville.
Mechanical Engineering: Pi Tau Sigma Award—David W. Nelson, Morehead City. (Sophomore)
Institute of Aeronautical Sciences Scholarship Award: Furman Y. Sorrell, Jr., Wadesboro. (Senior)

SCHOOL OF FORESTRY

Xi Sigma Pi Senior Award: Roy Wesley Stonecypher, Martinsville, Va.
Xi Sigma Pi Freshman Award: William Joseph Burk, III, Charleston, S. C.
Homelite Honor Awards:
James Wilburn McMinn, Asheville.
Charles Wallace Selden, III, Richmond, Va.
Ralph Scott Wallinger, Ashland, Va.
The Allied Paper Salesmen's Association of New York State Award: Norman A. Russell, Raleigh.
Biltmore Scholarship Awards:
Clyde Mitchell Gurganus, Williamston.
Thomas Lawson Harrill, Shelby.
Herbert William Scheld, Jr., Statesville.
Slocum Scholarship Awards:
Ronald Fred Foster, Ferguson.
James Wilburn McMinn, Asheville.
Alpha Zeta Scholarship Cup Award: William Joseph Burk, III, Charleston, S. C.

SCHOOL OF GENERAL STUDIES

Rudolph E. Freund Prize for Excellence in the Social Sciences: Walter Lewis Cook, Raleigh.

SCHOOL OF TEXTILES

American Association of Textile Chemists and Colorists Award: William Clay Smith, Spindale.
American Association of Textile Technology Award: William Carl Wilton, Hamilton, Ontario, Canada.
Delta Kappa Phi Fraternity Award: Daniel Hydrick Cash, Jr., Rutherfordton.
Sigma Tau Sigma Fraternity Award: Hasday Habib, Havana, Cuba.
Saul F. Dribben Memorial Award: Daniel Hydrick Cash, Jr., Rutherfordton.
Phi Psi Fraternity Award: Elbert Stanley Mullis, Haw River.
Textile Veterans Association Award: Everett Coleman Drake, Jr., Baldwin, N. Y.

ALUMNI ATHLETIC TROPHY

Donald Michael Gallagher, Binghamton, N. Y.

PHI KAPPA PHI, NATIONAL HONORARY SCHOLARSHIP SOCIETY

Graduate Student Ph. D. Award: Harold Mott, Raleigh.
Graduate Student Masters Award: Leroy Charles Saylor, Cedar Rapids, Iowa.
Sophomore Honorary Award: Richard H. Williamson, Canton.
Junior Honorary Awards:
Donald Larry Hester, Stanley.
Arthur Bruce Hoadley, Raleigh.
William Baxter Michael, Bostic.
Senior Honorary Award: Roy Baxter Blake, Winston-Salem.

AIR FORCE AWARDS

American Legion Medal: Cadet Lt. Col. William Ray Conley, Marion.

Sons of the American Revolution: Cadet Paul Nolly Humphreys, Jr., Raleigh.
Chicago Tribune Awards:
 Cadet James Edward Shepherd, Whitsett.
 Cadet T/Sgt. John Benjamin Shore, East Bend.
 Cadet 2nd Lt. William Freddy Fulcher, Rocky Mount.
 Cadet Lt. Col. Phillip Leroy Hughes, Oxford.
Maj. Gen. William C. Lee Award: Cadet Ronald Jack Reynolds, Candor.
Air Force Association Award: Cadet Lt. Col. Jerry Albert Sawyer, Raleigh.
Convair Cadet Award: A/1C Warren Jerome Redd, Jr., Charlotte.
Reserve Officers Association Honor Award: Cadet Maj. Lewis Ray Kirchdorfer, Raleigh.
Reserve Officers Association Medal: Cadet 2nd Lt. Jerry Frank Arnold, Raleigh.
Arnold Air Society Award: Cadet Thomas Linville Davis, Raleigh.
AFROTC Flight Leader Award: Cadet 2nd Lt. Wilbur Earl Mazingo, Jr., Kinston.
Professor of Air Science Award: Cadet Major Richard Horace Crockett, Jr., Ames, Iowa.
Air Force ROTC Drill Unit Award: Cadet Lt. Col. Virgil Felix Batten, Raleigh.

ARMY ROTC AWARDS

The Department of the Army Superior Senior Cadet Award: Senior Class: Cadet Captain Marvin Eugene Howell, Oak City. Junior Class: Cadet Master Sergeant Alvin Dillard Hooper, Tuckasegee; Sophomore Class: Cadet Sergeant Richard Hall Williamson, Canton; Freshman Class: Cadet Corporal Gerald Nathan Moore, Fayetteville.
Certificate of Meritorious Leadership Achievement: Cadet Captain George Calvin Atkins, Apex.
The Colonel John W. Harrelson Scholarship: Cadet Corporal William Charles Brown, Fort Bragg.
Association of the United States Army Medal: Cadet Master Sergeant James Thornwell Spence, III, Greensboro.
American Ordnance Association Key: Cadet Major Bobby Gray Kiger, Winston-Salem.
Best Drilled Platoon Award: Cadet 2nd Lt. Donald Michael Gallagher, Binghamton, N. Y., 1st Platoon, "D" Company, 3rd Battle Group.
Master Sergeant Horace Carter Thomas, Sr. Award: Cadet Sergeant Billy Franklin Gaffney, Cramerton.
Chicago Tribune Gold Medals: Cadet Major Ingram Blair McLeod, Jr., Winston-Salem, Cadet Lt. Colonel John David Smith, III, Leaksville.
Chicago Tribune Silver Medals: Cadet First Sergeant Paul Albert Romeo, Summerville, S. C. Cadet First Sergeant Lucius Hazletine Bracey, Jr., South Hill, Va.
Society of American Military Engineers Medal: Cadet Master Sergeant Alvin Dillard Hooper, Tuckasegee.
Armed Forces Chemical Association Award: Cadet Major George Gordon Blankford, Jr., Raleigh.
American Legion Medal: Cadet Colonel Sam Taylor Smathers, Canton.
Scabbard and Blade Award: Cadet Private Paul Weber Brant, Raleigh.
Scabbard and Blade Marksmanship Medal: Cadet Major David Ruffin Redwine, Lexington; Cadet Captain George Calvin Atkins, Apex.
Armed Forces Communications and Electronics Award: Cadet Major Forrest Richard Redden, Jr., Clemmons.
Reserve Officers Association Honor Award: Cadet Lt. Colonel James Elwyn Watson, Jr., Red Springs; Cadet Sergeant First Class James Currie, Lake Parsippany, N. J.
Pershing Rifles Achievement Medal: Cadet Corporal James Pritchett Jordan, Mount Gilead; Cadet Corporal Arthur Elwin Dumont, Jr., Charlotte; Cadet Master Sergeant Preston Lee Hasson, Charlotte; Cadet First Sergeant Barre Ryan Mitchell, Wilmington.
Pershing Rifles Silver Medal: Cadet 2nd Lt. James Benton Jones, Charlotte.
Sons of the American Revolution ROTC Medal: Cadet Master Sergeant John Austin Edmondson, Gainesville, Georgia.

Names also shown in red
 Degrees Conferred 1959-60

	July 1959	August 1959	Feb. 1960	May 1960	Totals
<u>Bachelors</u>					1
Agriculture	6	2	36 ¹	95 ¹	139 ¹
Design	0	0	0	20 ¹	20 ¹
Education	5	12	58 ¹	86 ¹	161 ²
Engineering	23	13	43 ²	489 ¹	568 ³
Forestry	4	5	15	56	80
Textile	2	4	9	38	53
	40	36	161 ⁴	784 ³	1021 ⁷⁰
Professional	0	0	3 ^{Ed.}	2 ^{Ed.}	5
Masters	6	23	45 ¹	603 ¹	134 ⁴
Ph. D's	5	8	14 ^{Ag.}	14	41 ¹
Grand Totals	41	67	223 ⁶	860 ⁶	1201 ⁷⁴
Honorary				6	

1 negro (1st Undergraduate degree)
 J. R. Holmes, Jr. in EE May 1960

the 1990s, the number of people in the world who are under 15 years of age has increased from 1.1 billion to 1.3 billion. The number of children under 5 years of age has increased from 0.8 billion to 1 billion. The number of children under 1 year of age has increased from 0.2 billion to 0.3 billion.

There are a number of reasons for the increase in the number of children in the world. One of the main reasons is the increase in the number of people who are under 15 years of age. This is due to the fact that the number of people who are under 15 years of age has increased from 1.1 billion to 1.3 billion.

Another reason for the increase in the number of children in the world is the increase in the number of people who are under 5 years of age. This is due to the fact that the number of people who are under 5 years of age has increased from 0.8 billion to 1 billion.

A third reason for the increase in the number of children in the world is the increase in the number of people who are under 1 year of age. This is due to the fact that the number of people who are under 1 year of age has increased from 0.2 billion to 0.3 billion.

The increase in the number of children in the world is a result of a number of factors. One of the main factors is the increase in the number of people who are under 15 years of age. This is due to the fact that the number of people who are under 15 years of age has increased from 1.1 billion to 1.3 billion.

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