

# 1990 Fall Commencement

North Carolina State University



Wednesday, December 19  
Nineteen Hundred and Ninety

# DEGREES CONFERRED

Wednesday, December 19  
Nineteen Hundred and Ninety

The Commencement Program is printed prior to administering final examinations. Therefore, the inclusion of names of degree candidates in this program is not certification that degree requirements have been satisfactorily completed.

# TABLE OF CONTENTS

Musical Program .....	iv
Dr. Larry K. Monteith .....	v
The Alma Mater .....	vi
Exercises of Graduation .....	vii
Commencement Ushers .....	viii
Commencement Marshals .....	viii
Time and Location of Departmental Ceremonies .....	ix
ROTC Commissioning Ceremony .....	xi
Academic Costume .....	xii
Academic Honors .....	xii
Undergraduate Degrees .....	1
Professional Degrees .....	39
Graduate Degrees .....	40
Master's Degrees .....	40
Master of Arts Degrees .....	45
Master of Science Degrees .....	45
Doctor of Education Degrees .....	54
Doctor of Philosophy Degrees .....	55

# Musical Program

## EXERCISES OF GRADUATION

December 19, 1990

Commencement Brass Ensemble Concert: 8:40 a.m.

Symphony from the Fairy Queen, Act IV ..... Henry Purcell  
Allegro Marziale—Canzona  
Largo  
Allegro Maestoso

Jesu, Joy of Man's Desiring ..... J. S. Bach

March for Timpani and Brass ..... Brent Heisinger

Canzon Vigesimasettima (27) ..... Giovanni Gabrieli

PROCESSIONAL: 9:00 A.M.

Three Pieces from the Water Music ..... George Frederic Handel  
Allegro  
Andante  
Allegro

PROCESSIONAL: (Platform Party Only)

Rondeau ..... Jean Joseph Mouret

RECESSIONAL: (Platform Party Only)

Trumpet Voluntary in D ..... Jeremiah Clarke

NORTH CAROLINA STATE UNIVERSITY  
COMMENCEMENT BRASS ENSEMBLE  
Dr. Ronald J. Toering, Conductor



## LARRY K. MONTEITH

A native North Carolinian, Dr. Larry K. Monteith became Chancellor of North Carolina State University on May 11, 1990. Prior to this he served in administrative roles of Interim Chancellor, Dean of Engineering and Head of the Department of Electrical Engineering.

A 1960 NCSU alumnus with a Bachelor of Science degree in electrical engineering, Dr. Monteith earned both his Master's degree and his Ph.D. degree from Duke University in 1962 and 1965, respectively. He was a member of the technical staff of Bell Telephone Laboratories before joining the research staff of the Solid State Laboratory of the Research Triangle Institute in 1962, where he later became Head of RTI's Materials and Devices Laboratory.

He came to North Carolina State University in 1968 as a member of the electrical engineering faculty and achieved the rank of full professor in 1972, which he still holds.

An authority on solid state materials, Dr. Monteith has headed many major research projects. He is author of approximately 50 published technical articles, technical papers and reports. He belongs to a variety of professional and honor engineering societies.

# The Alma Mater

*Words by:*  
ALVIN M. FOUNTAIN, '23

*Music by:*  
BONNIE F. NORRIS, JR., '23

Where the winds of Dixie softly blow  
o'er the fields of Caroline,

There stands ever cherished N. C. State,  
as thy honored shrine.

So lift your voices; Loudly sing  
from hill to oceanside!

Our hearts ever hold you, N. C. State  
in the folds of our love and pride.

# Exercises of Graduation

Reynolds Coliseum

Chancellor Larry K. Monteith  
Presiding

December 19, 1990

PROCESSIONAL, 9:00 a.m. ....	Dr. Ronald J. Toering <i>Conductor, North Carolina State University Commencement Brass Ensemble</i> <small>The audience is requested to remain seated during the Processional.</small>
WELCOME .....	Provost Franklin D. Hart
INVOCATION .....	Reverend Joseph P. McNamara, O.M.I. Aquinas House, Catholic Center North Carolina State University
NATIONAL ANTHEM .....	Grains of Time
INTRODUCTIONS .....	Provost Hart
ADDRESS .....	Dr. Larry K. Monteith Chancellor North Carolina State University
CONFERRING OF DEGREES .....	Chancellor Monteith <small>Candidates for advanced degrees presented by Dean of Graduate School. Candidates for baccalaureate degrees presented by Deans of Colleges/ Schools.</small>
ADDRESS TO FELLOW GRADUATES .....	Ms. Lora Ann Long
RECOGNITIONS .....	Provost Hart
ALMA MATER .....	Grains of Time
RECESSIONAL (Platform Party only)	

# Commencement Ushers

## Army ROTC Ushers

Thomas A. Baker  
Chad A. Haley  
Michael D. Hartley  
Joseph E. Johnson  
Michael J. Lanham  
Robert S. Ludwick  
Brain G. Marlow  
Jeffrey T. McBroom  
Richard S. Walton  
Jean G. Dematteis

## Navy ROTC Ushers

Andrew D. Amidon  
Charles T. Benfield  
William S. Burns  
Eric A. Cranford  
David H. DeBoskey  
David W. Hudspeth  
David W. Johnson  
Herbert A. Kupec  
Randall S. Lesslie  
Coley R. Myers

## Air Force ROTC Ushers

Charles J. Law  
Roger G. Gonzalez  
Jason L. Roberts  
Robert T. Predell  
Dean C. Bellamy  
Todd N. James  
John D. Belk  
Leland M. Heath  
Eric O. Dirr  
Trina B. Collins

# Commencement Marshals

Hasoni Lenore Andrews  
Burton F. Beers, Jr.  
Jeffrey Ray Beusse  
Tanji Leigh Bradley  
Susan Elizabeth Byrd  
Kevin Ray Campbell

William Chase Gaston  
Marnie K. Hamer  
Alton Douglas Powell  
Leslie Noelle Powell  
Franklin Lamart Revel  
Roderick G. Robinson

Karen Annette Sauls  
Jeffrie Paul Sneed  
Donica Tolee Thomas  
Kelly Elizabeth Williams  
Toni Michelle Williams  
Jeffrey Todd Willits



# Time and Location of College and Departmental Ceremonies

**College of Agriculture and Life Sciences**—11:15 a.m. except for those marked with an asterisk

Adult and Community College Education . . . Room 1C-D, McKimmon Center,  
Western Boulevard

\*Agricultural Business Management and Agricultural

Economics—11:30 a.m. . . . . 124 Dabney Hall

Agronomy, Crop Science, Soil Science  
and Conservation . . . . . 2215 Williams Hall

Animal Science . . . . . 110 Polk Hall

Biochemistry . . . . . 128A Polk Hall

Biological and Agricultural Engineering . . . . . 158 D. S. Weaver Lab.

Biological Sciences . . . . . 2722 Bostian Hall

Biological Sciences Major

Botany

Ecology

Entomology

Genetics

Food Science . . . . . 105 Schaub, Food Science Building

Horticultural Science . . . . . 159 Kilgore Hall

Individualized Study Program . . . . . Location of Major Faculty Advisor

Physiology Program . . . . . Location of Major Faculty Advisor

Poultry Science . . . . . 105 Schaub, Food Science Building

Applied Sociology . . . . . 2037 Carmichael Gym

Zoology . . . . . 3712 Bostian Hall

Fisheries and Wildlife Sciences

Medical Technology

Zoology Majors

Microbiology

Nutrition

Pest Management

Plant Pathology

Toxicology

**School of Design**—11:30 a.m. . . . . Auditorium, School of Design Addition  
Reception—12:15 p.m. . . . . Brooks Hall

**College of Education and Psychology**—11:15 a.m. . . . . Brownstone Hotel  
Hillsborough Street, Raleigh

**College of Engineering**

Biological and Agricultural

Engineering—11:15 a.m. . . . . 158 D. S. Weaver Labs.

Chemical Engineering—11:30 a.m. . . . . Thompson Theatre

Civil Engineering—11:15 a.m. . . . . 216 Mann Hall

Computer Science—11:15 a.m. . . . . Pullen Memorial Baptist Church

Electrical and Computer Engineering—11:30 a.m. . . . . 228 Daniels Hall

Furniture Manufacturing and

Management—1:00 p.m. . . . . Ballroom, Faculty Club

Industrial Engineering—1:00 p.m. . . . . Ballroom, Faculty Club

Integrated Manufacturing Systems

Engineering—11:30 a.m. . . . . 109 Page Hall

Masters of Engineering—11:30 a.m. . . . . 109 Page Hall

Mechanical and Aerospace Engineering—11:00 a.m. . . . . 3231 Broughton Hall

**College of Forest Resources**—11:30 a.m. . . . . Room 2, McKimmon Center,  
Western Boulevard

**College of Humanities and Social Sciences—11:15 a.m. except for those marked with an asterisk**

*Accounting—11:30 a.m. ....	G111 Caldwell Hall
*Business Management and Economics—11:30 a.m. ....	124 Dabney Hall
History .....	Upper Level Carmichael Gym
English .....	Upper Level Carmichael Gym
Foreign Languages and Literatures .....	Upper Level Carmichael Gym
Multi-Disciplinary Studies .....	Upper Level Carmichael Gym
Philosophy and Religion .....	Upper Level Carmichael Gym
Political Science .....	Upper Level Carmichael Gym
Sociology .....	2037 Carmichael Gym
Speech-Communication .....	Upper Level Carmichael Gym

**College of Physical and**

<b>Mathematical Sciences—11:00 a.m. ....</b>	<b>222 Dabney Hall</b>
--	------------------------

<b>College of Textiles—11:30 a.m. ....</b>	<b>240 Nelson Hall</b>
--	------------------------

# ROTC COMMISSIONING CEREMONY

MAJOR PHILIP D. RIDDLE  
Presiding

Ballroom, University Student Center  
December 19, 1990

- PROCESSIONAL MARCH, 2:30 p.m. .... Dr. Ronald J. Toering  
*Conductor, North Carolina State University Commencement Brass Ensemble*
- NATIONAL ANTHEM
- INVOCATION ..... Colonel Aubrey McLellan  
*State Chaplain, NCARNG*
- INTRODUCTIONS ..... Major Philip D. Riddle
- WELCOME ..... Dr. Larry K. Monteith  
*Chancellor, North Carolina State University*
- INTRODUCTION OF GUEST SPEAKER ..... Major Philip D. Riddle
- ADDRESS ..... Brigadier General James L. Cole, Jr.  
*Assistant Deputy Chief of Staff for Operations, Military Airlift Command*
- ADMINISTRATION OF THE OATH  
OF OFFICE ..... Major Philip D. Riddle  
*Acting Professor of Military Science*  
Colonel G. H. Walls  
*Professor of Naval Science*  
Colonel James T. Ferrell  
*Professor of Aerospace Studies*
- PRESENTATION OF CERTIFICATES ..... Dr. Larry K. Monteith
- BENEDICTION ..... Colonel Aubrey McLellan
- RECESSIONAL ..... Dr. Ronald J. Toering  
*The audience is requested to remain seated until the Recessional music is completed.*

# Academic Costume

Academic gowns represent a tradition handed down from the universities of the Middle Ages. These institutions were founded by the Church; the students, being clerics, were obliged to wear the prescribed gowns at all times. Round caps later became square mortarboards; the hoods, originally cowls attached to the gowns, could be slipped over the head for warmth.

Many European universities have distinctive caps and gowns which are different from those commonly used in this country. Some of the gowns are of bright colors and some are embellished with fur. A number of these may be noted in the procession.

The usual color for academic gowns in the United States is black. The bachelor's gown is worn closed, the master's and doctor's may be worn open or closed. The shape of the sleeve is the distinguishing mark of the gown: bachelor—long pointed sleeves; master—oblong, square cut in the back with an arc cut away in front; doctor—bell shaped.

Caps are black. The tassels for the Ph.D. degree are gold and those for other graduate and professional degrees may be of the color corresponding to the trimmings on the hoods.

Of all the components of the academic costume, the hood bears the heaviest symbolic burden. The hood must make clear the level of the degree, the faculty in which it was given, and the institution which awarded it. The level of the degree is shown by the size of the hood, the width of the velvet trimming, and in the case of doctors, by the shape. The bachelor's, master's, and doctor's hoods are three feet, three and one-half feet, and four feet long, respectively. The velvet trimming in the same order is two, three, and five inches and extends all around the hood on the exposed edge. This same trimming identifies the faculty in which the degree was awarded. For each faculty there is a corresponding color; so a glance at the trimming is all that is needed to identify the faculty. A *partial* list of the colors follows: Agriculture, maize; Architecture and Art, brown; Science, golden yellow; Economics, copper; Education, light blue; Engineering, orange; Forestry, russet; Physical Education, sage green; Religion, scarlet; Speech, silver gray; Veterinary Medicine, gray; Textiles, wine red. The following faculties have the same color—dark blue: Anthropology, History, Languages, Literature, Philosophy, Political Science, Sociology.

# Academic Honors

Honors participants benefit from a more individualized and rigorous approach to their desired degree through special classes, seminars and individual research.

Undergraduate degree honor designations are:

- Cum Laude—for GPA 3.250 through 3.499
- Magna Cum Laude—for GPA 3.500 through 3.749
- Summa Cum Laude—for GPA 3.750 and above.

# UNDERGRADUATE DEGREES

## College of Agriculture and Life Sciences



### BACHELOR OF SCIENCE IN BIOLOGICAL AND AGRICULTURAL ENGINEERING

Jointly administered by the College of Agriculture and Life Sciences and the College of Engineering. See page \_\_\_ under the College of Engineering for a listing of the graduate senior in the jointly administered program.

#### *Degrees To Be Conferred December 19, 1990*

\*\*Issac Bryan Singletary .....Bladenboro  
Linda Faye Leigh ..... Creswell

### BACHELOR OF SCIENCE IN CONSERVATION

Jointly administered by the College of Agriculture and Life Sciences and the College of Forest Resources.

#### *Degrees To Be Conferred December 19, 1990*

Robert John Hallbauer ..... Fayetteville  
\*\*John Paul Williams ..... Ramseur

### BACHELOR OF SCIENCE IN AGRICULTURAL BUSINESS MANAGEMENT

#### *Degree Conferred June 26, 1990*

Bennett Allen Wilder ..... Raleigh

#### *Degree Conferred August 7, 1990*

Samuel Locksley Hall ..... Yadkinville

#### *Degrees To Be Conferred December 19, 1990*

\*Larry David Edwards, Jr. .... Mooresville  
Erich Wayne Gumto ..... Renfrew, PA  
Christopher Marvin Hedrick ..... Franklinton  
Ted James Hyde II ..... Belmont  
†Brent Jerald McClendon ..... Raleigh  
William Randolph Temple ..... Brodnax, VA  
Amy Lou Westmoreland ..... Kernersville  
Richard Hosea White, Jr. .... Whiteville

†Co-major \*Cum Laude \*\*Magna Cum Laude \*\*\*Summa Cum Laude H Honors Program

## BACHELOR OF SCIENCE IN AGRICULTURAL ECONOMICS

*Degree To Be Conferred December 19, 1990*

Virginia Walton Smith ..... Robersonville

## BACHELOR OF SCIENCE IN AGRONOMY

*Degrees To Be Conferred December 19, 1990*

Mervin Arnold Frantz III ..... Chapel Hill

Kevin Neal Hughes ..... Ash

Stephen Brant Marshall ..... Hampstead

Bryan Mitchell Moore ..... China Grove

\*Jeffrey Stephenson Parks ..... Goldsboro

## BACHELOR OF SCIENCE IN ANIMAL SCIENCE

*Degrees Conferred June 27, 1990*

†Louis Duncan Beretich ..... Clinton

Mayford Dennis Sells, Jr. .... Kinston

†Wendy Michelle Thompson ..... Pelham

*Degrees Conferred August 7, 1990*

Elizabeth Ann Brinegar ..... N. Wilkesboro

Claxton Forest Stallings, Jr. .... Belvidere

*Degrees To Be Conferred December 19, 1990*

Christopher David Canipe ..... Shelby

John Eric Ellis ..... Old Fort

William Brian Fouts ..... Franklin

Jennifer Beth Goode ..... Lincolnton

†Wendy Carol Horton ..... Kinghtdale

Michael Wesley Huff ..... Oxford

Sushila Jane Kapil ..... Raleigh

Mark Brandon McComas ..... Cary

†Corina Michelle McFarland ..... Albemarle

William Bryant Morton ..... Apex

Scott Leon Munger ..... Cary

Jennifer Lynn Perruquet ..... Monroe

†Patricia Ann Routh ..... Randleman

Michael Craig Siegel ..... Jamestown

Melanie Randolph Smith ..... Tucson, AZ

Roland Lynn Walters ..... Efland

H\* Cynthia Leigh Warner ..... Raleigh

## BACHELOR OF SCIENCE IN APPLIED SOCIOLOGY

*Degree Conferred August 7, 1990*

Nancy Anne Nalven ..... Great Neck, NY

*Degrees To Be Conferred December 19, 1990*

Angela Dale Pruitt ..... Wilson

Herbert John Sullivan ..... Jacksonville

Randall White Walston ..... Roxobel

† Co-major   \*Cum Laude   \*\*Magna Cum Laude   \*\*\*Summa Cum Laude   H Honors Program

## BACHELOR OF SCIENCE IN BIOCHEMISTRY

### Degrees Conferred June 26, 1990

Jan Alice Anderson .....	Raleigh
**John Alan Diehl .....	Raleigh
Ray Scott Higdon .....	Charlotte
†Philip Ansel McClellan .....	Shelby
Shawn Michael Weiss .....	York, PA

### Degree Conferred August 7, 1990

Lisa Lee Hefner .....	Mount Mourne
-----------------------	--------------

### Degrees To Be Conferred December 19, 1990

Kathryn Kay Bradley .....	Hanover, PA
†Stephen Donald Benjamin .....	Charlestown, IN
Sonya Caprice Causey .....	Asheboro
†Paul Marshall Duncan .....	Richmond, VA
H†Michael Joseph Goodheart .....	Raleigh
†Bryan Wayne Kluttz .....	Kannapolis
H†**Alice Lynn Lewis .....	Raleigh
Jennifer Lynn McLain .....	Raleigh
†Sang Woon Myung .....	Greensboro
H†**Harlan Luke South .....	Richmond, VA
Denise Darlene Stalvey .....	Wilmington
Theresa Helen Sullivan .....	Jacksonville
Danny Marcellus Wright .....	Henderson

## BACHELOR OF SCIENCE IN BIOLOGICAL AND AGRICULTURAL ENGINEERING TECHNOLOGY

### Degree Conferred August 7, 1990

*Robert Scott Clontz .....	Troutman
----------------------------	----------

### Degrees To Be Conferred December 19, 1990

Donald Ray Pearson, Jr. ....	Raleigh
Stanley Keith Robinson .....	Rocky Mount
Donald Louis Wells .....	Henderson

## BACHELOR OF SCIENCE IN BIOLOGICAL SCIENCES

### Degrees Conferred June 26, 1990

Carol Paska Dougherty .....	Dania, FL
Lee Sawyer Friedmann .....	Jacksonville, FL
**Douglas Eric Norris .....	Apex
William Hartwell Wilkinson, Jr. ....	Valdese
Wesley Waugh Wilson .....	Lenoir

### Degrees Conferred August 7, 1990

***Betty Harmon Hamilton .....	Fayetteville
Sharon Christine Maloid .....	Lovettsville, VA
*Victoria Jean Saia .....	W. Babylon, NY
Mary Penny Thompson .....	Fayetteville

### Degrees To Be Conferred December 19, 1990

Susan Elizabeth Anderson .....	Chapel Hill
H***Elena Maria Cano .....	Madrid, Spain
Brian Keith Cassel .....	Raleigh

†Co-major	*Cum Laude	**Magna Cum Laude	***Summa Cum Laude	H Honors Program
-----------	------------	-------------------	--------------------	------------------

Jennifer Alice Goodwin	Plymouth
*Richard Yates Hayes	Raleigh
Karyn Sue James	Mebane
Sandra Kay Jerrim	Raleigh
H*Denise Finneran Jones	Palm Bay, FL
*Minh Van Lam	Cho Lon, Vietnam
H†***Alice Lynn Lewis	Raleigh
Judith Lynn Lewis	Raleigh
Erin Susan McGuckin	Wilmington
Kerry Lynn Miller	Hickory
Katherine Michelle Poole	Cincinnati, OH
Milessa Adair Poole	Raleigh
†Patricia Ann Routh	Randleman
**Mark Leonard Stamper	Charlotte
*Woosung Yun	Seoul, Korea

#### BACHELOR OF SCIENCE IN BIOLOGICAL SCIENCES (Microbiology)

##### *Degrees Conferred June 26, 1990*

Sharon Renee Collins	East Bend
***Joan Marie Skroch	Raleigh

##### *Degrees Conferred August 7, 1990*

***Patricia Gardner Clapp	Raleigh
Jun Manuel Versola	Raleigh

##### *Degrees To Be Conferred December 19, 1990*

***Lisa Ann Cairn	Cary
Eric Michael Hess	Timberlake
†Sharon Elizabeth Pope	Garner

#### BACHELOR OF SCIENCE IN BOTANY

##### *Degrees Conferred June 26, 1990*

Jeffrey Scott Coffey	Wilson
Richard Allen Frazelle	Wilmington

##### *Degree Conferred August 7, 1990*

*Mary Beth Pellettieri	Downer Grove, IL
------------------------	------------------

#### BACHELOR OF SCIENCE IN FISHERIES AND WILDLIFE SCIENCES

##### *Degrees Conferred August 7, 1990*

Earl Clarence Bassett IV	Edenton
Michael Eric McRoy	Washington

##### *Degrees To Be Conferred December 19, 1990*

Bradley Steven Burgess	Denver
Janis Kay Heller	Reidsville
Frederick Ray Hubbard	Garner
Mark Ellis Johns	Raleigh
***Kent Shellie Karriker	Charlotte
Jason Charles Peoples	Roanoke Rapids
John Turner Saunders III	Asheville
Catherine Shershanovich	Elmwood Park, NJ

† Co-major      \*Cum Laude      \*\*Magna Cum Laude      \*\*\*Summa Cum Laude      H Honors Program



## BACHELOR OF SCIENCE IN FOOD SCIENCE

### *Degree Conferred August 7, 1990*

†\*\*Jaime Mullerat ..... Barcelona, Spain

### *Degrees To Be Conferred December 19, 1990*

Martha Anne McLean ..... Laurinburg  
Debra Diane Smith ..... Clearwater, FL

## BACHELOR OF SCIENCE IN HORTICULTURAL SCIENCE

### *Degree Conferred August 7, 1990*

\*David Alan Crouse ..... Winston-Salem

### *Degrees To Be Conferred December 19, 1990*

Kenneth Franklin Brooks ..... Cary  
Ronald Sellers Dalton ..... Lake Lure  
Stephen Andrew Ford ..... Matthews  
Richard William Hartlage ..... Raleigh  
Carol Gordner Jenkins ..... Cary  
Karen Leigh Judson ..... Rockville, MD  
\*\*\*Donald Frank Kelsey ..... Greensboro  
William Herbert Lewis III ..... Madison  
Lou Alexandra Maxwell ..... Seven Springs  
Melissa Gale Roberts ..... Willow Springs  
Michael Todd Rodgers ..... Cary  
\*\*Laurie Jo Smith ..... Kitty Hawk

## BACHELOR OF SCIENCE IN INDIVIDUALIZED STUDY PROGRAM

### *Degree To Be Conferred December 19, 1990*

†Marjorie Johnice Smith ..... Durham

## BACHELOR OF SCIENCE IN MEDICAL TECHNOLOGY

### *Degrees Conferred August 7, 1990*

Mitra Zakeriniasar Dabestani ..... Cary  
Ruth Matilda Reid ..... Winston-Salem

## BACHELOR OF SCIENCE IN POULTRY SCIENCE

### *Degrees Conferred June 26, 1990*

†Louis Duncan Beretich ..... Clinton  
†Wendy Michelle Thompson ..... Pelham

### *Degree Conferred August 7, 1990*

†\*\*Jaime Mullerat ..... Barcelona, Spain

### *Degrees To Be Conferred December 19, 1990*

†Wendy Carol Horton ..... Knightdale  
Aaron Devone Sheffield ..... Magnolia  
\*Kristal Price Velazquez ..... Raleigh

†Co-major    \*Cum Laude    \*\*Magna Cum Laude    \*\*\*Summa Cum Laude    H Honors Program

## BACHELOR OF SCIENCE IN ZOOLOGY

### Degrees Conferred June 26, 1990

Noel Adolph Paul III .....	New Bern
Julia Elizabeth Rogers .....	Charlotte
Joseph Royden Saah .....	Garner
Angela Marie Sorie .....	Roanoke Rapids

### Degrees Conferred August 7, 1990

Jennifer Wiggs Ballance .....	Goldsboro
Montese Renee Davis .....	Lumberton
H†*Darlene Brown Medford .....	Waynesville
Regina Oakley Phillips .....	Greensboro
Tracey Kathlyn Ritzman .....	Akron, OH
Marcia Lynn Ruland .....	Collierville, TN
Kori Ann Wolfe .....	Fletcher
Michael Paul York .....	Advance

### Degrees To Be Conferred December 19, 1990

H*Amer Adam .....	Cary
Tenesha Arlethia Bazemore .....	Chesapeake, VA
H**Jennifer Caldwell Brown .....	Goldsboro
Cinnamon Dawn Cureton Frame .....	Raleigh
Todd Cameron Franklin .....	Morganton
H**Jack Miller Freeman, Jr. ....	Ellenboro
Kyle Royce Harper .....	Goldsboro
Patrick Everette Kavanaugh .....	Greenville
Kelly Jean Maguire .....	Windsor, NJ
William Regis Krisulewicz .....	Raleigh
Michael Nicholas Mantzouris .....	Silver Spring, MD
†Corina Michelle McFarland .....	Albemarle
***Stephen Lee Perkins .....	Lillington
Valorie Antionette Pigotte .....	Supply
*Jennifer Harrington Raynor .....	Greensboro
Pamela Ellen Rogers .....	Matthews
†Patricia Ann Routh .....	Randleman
Christopher Allen Rowe .....	Wilmington
Kanak Lata Singh .....	Raleigh
Jenny Lynn Smith .....	Winston-Salem
Melinda Anne Smith .....	Forest City
Diane Lynn Stenson .....	Hendersonville
John Daniel Stuckey II .....	Gibsonville
H*Stephen Gregory Truesdale .....	New Bern
Yvette Marie Turner .....	Jacksonville
Debra Bright Webb .....	Swan Quarter
Lynda Gidney Williamson .....	Shelby
Chong Young Yu .....	Fayetteville

†Co-major

\*Cum Laude

\*\*Magna Cum Laude

\*\*\*Summa Cum Laude

H Honors Program

# School of Design



## BACHELOR OF ENVIRONMENTAL DESIGN

*Degree To Be Conferred December 19, 1990*

\*Caroline Courtney Jones ..... Charlotte

## BACHELOR OF ENVIRONMENTAL DESIGN IN ARCHITECTURE

*Degrees Conferred August 7, 1990*

Glenn Alan Knapp ..... Raleigh  
 Mary Kimberly Munns ..... Raleigh  
 \*Thomas Wright O'Brien ..... Durham

*Degrees To Be Conferred December 19, 1990*

\*Clinton Keith Compton ..... Raleigh  
 Myrna Amelia Olmos Muniz ..... San Juan, P.R.  
 Michael Lee Rosenthal ..... Denville, NJ  
 \*David Christopher Sledge ..... Norlina  
 Todd Douglas Thames ..... Dunwoody, GA

## BACHELOR OF ENVIRONMENTAL DESIGN IN PRODUCT DESIGN

*Degrees Conferred August 7, 1990*

Daniel Clayton Schwab ..... Raleigh  
 \*Jason Johnson Stanford ..... Haiku, HI

*Degrees To Be Conferred December 19, 1990*

David Newell Banko ..... Raleigh  
 David Alan Barnette ..... Morgantown  
 Bruce Anthony Browning ..... Durham  
 \*\*Aaron Roger Cox ..... Greensboro  
 Craig David Hathaway ..... Mooresville  
 Jaime Lozano ..... Bakersfield, CA  
 Daniel Roach Metz ..... Raleigh  
 Julie Mignon Wilson ..... Wilmington

## BACHELOR OF ENVIRONMENTAL DESIGN IN VISUAL DESIGN

*Degree Conferred August 7, 1990*

Darryl Ketcham ..... Bergenfield, NJ

*Degrees To Be Conferred December 19, 1990*

\*Jay Cary Liner ..... Waynesville  
 Sean Mark Overington ..... Jacksonville  
 \*\*\*Shannon David Treaster ..... Shelby  
 \*Donnie Wayne Williams ..... Robbins  
 Linda Kaye Williams ..... Raleigh

†Co-major    \*Cum Laude    \*\*Magna Cum Laude    \*\*\*Summa Cum Laude    H Honors Program

# College of Education



## BACHELOR OF ARTS IN PSYCHOLOGY

### *Degrees Conferred June 26, 1990*

**Patricia Swartz Bradshaw .....	Indiana, PA
***Katherine Joyce Follett .....	Cary
Maria Bernadette Munford .....	New Bern
James Mark O'Dekirk .....	Cary
**Valerie Irene Troth .....	Raleigh

### *Degrees Conferred August 7, 1990*

***Kenneth Dean Brady, Jr. ....	Raleigh
Shawn Edward Crutchfield .....	Raleigh
Christopher Hampton Johnson .....	Fayetteville
John Christopher Midgley .....	Germantown, MD
Rebecca Lynn Sunderman .....	Aliquippa, PA

### *Degrees To Be Conferred December 19, 1990*

Timothy Barham .....	Wilson
Cynthia Elsa Barrett .....	Wilkesboro
Edward John Eder, Jr. ....	Rockville, MD
Paula Renee Gatlin .....	Pickens, SC
*Lawrence Russell Glickman .....	Holliston, MA
Scott Alan Goodwin .....	Kinston
*Julie Renaud Henegar .....	Raleigh
Devin Land Hight .....	Newton
Didrik Wendell Hoag .....	Freehold, NJ
Lisa Suzanne Huddle .....	Salisbury
*Patrice Jeraldine Jones .....	Raleigh
**Christopher Bing Kinlaw .....	New Bern
Gwenda Lynne Lynch .....	Raleigh
***Sharron Jackson Overton .....	Garner
Cheryl Lynn Perry .....	Kinston
Arlene Lois Peters .....	Bulawayo, Zimbabwe
Linda Ann Ruebesam .....	Raleigh
Laura Leigh Schrum .....	Lenoir
*Teresa Bennett Stephens .....	Raleigh
Robert William Stimart .....	Charlotte
***Carol Fortier Sullivan .....	Raleigh

## BACHELOR OF SCIENCE IN EDUCATION

### *Agricultural Education*

### *Degree Conferred August 7, 1990*

Wilma Arleca Chapman Harris .....	Lake Toxaway
-----------------------------------	--------------

### *Degrees To Be Conferred December 19, 1990*

Arnold Greg Anderson .....	Old Fort
Johnny Douglas Weaver, Jr. ....	Kenly

† Co-major      \*Cum Laude      \*\*Magna Cum Laude      \*\*\*Summa Cum Laude      H Honors Program

## General Studies

### Degrees Conferred August 7, 1990

Danielle Leigh Hassler .....	Hamlet
John Anthony Pastore .....	Madison

### Degrees To Be Conferred December 19, 1990

Andre Jaye Austin .....	Raleigh
Theresa Matrianni Bennett .....	Concord
*Angela Marie McBride Flenniken .....	Raleigh
Tina Elaine Goodman .....	Jacksonville
Brett Carlton Tetter .....	Salisbury

## Health Occupations Teacher Education

### Degree Conferred August 7, 1990

***Janet Nordman Hutchins .....	Raleigh
---------------------------------	---------

### Degrees To Be Conferred December 19, 1990

**Lisa Marie Campbell .....	Raleigh
Judith Hansley Durham .....	Raleigh
**Nancy Allen St. Onge .....	Raleigh
***Angela Gilliam Stephenson .....	Angier

## Industrial Arts Education

### Degree To Be Conferred December 19, 1990

John Anderson Stratton .....	Charlotte
------------------------------	-----------

## Mathematics Education

### Degrees To Be Conferred December 19, 1990

Alberita Vanessa Guess .....	Marion, SC
*Anthony Boyd Hargrove .....	Bladenboro
**Anne Elizabeth Stubbins .....	Mooreville
***Pamela Jane Vehling .....	St. Paul, MN
Melena Lynn Weinhold .....	Salisbury

## Mathematics Education, Middle Grades Concentration

### Degrees To Be Conferred December 19, 1990

Wanda Lynn Ange .....	Washington
Sondra Lynne Dail .....	Cary
Alicia Ann Wall .....	Durham

## Middle Grades, Language Arts and Social Studies Concentration

### Degrees To Be Conferred December 19, 1990

*Patricia Perry Dobson .....	Henderson
*Constance Ann Graham .....	Delray Beach, FL
**Karen Liverman Hobday .....	Raleigh
Kathryn Alison King .....	Cary
**Cathy Tilley Morgan .....	Fuquay-Varina
*Linda Tyson Sloop .....	Lillington
***Cynthia Lynn Smith .....	Raleigh
Amy Hinson Stanley .....	Smithfield

† Co-major

\* Cum Laude

\*\* Magna Cum Laude

\*\*\* Summa Cum Laude

H Honors Program

## Middle Grades, Mathematics and Science Concentration

### Degrees To Be Conferred December 19, 1990

Kimberle Anne Browne .....	South Boston, VA
*Claire Jeannette Crisp Chadwick .....	Apex
Cynthia Quay Huggins .....	Fort Worth, TX

## Science Education

### Degrees To Be Conferred December 19, 1990

Claire Joan Block .....	Apex
**Julie Ann Davis .....	Biscoe
Kristen Yvette Hall .....	Gates
†**Lora Ann Long .....	Apex
Tonya Ellen Poplin .....	Albemarle
†Kelly Lynn Prelipp .....	Charlotte
Stephen Eric Slaughter .....	Maiden
Charlotte Talley Soto .....	Willow Springs

# College of Engineering



## BACHELOR OF SCIENCE IN TEXTILE ENGINEERING

Jointly administered by the College of Textiles and the College of Engineering.

### Degrees To Be Conferred December 19, 1990

Joseph Kevin Airington .....	Clayton
Michael Loyd Maynard .....	Apex
Melisa Michele Ringer .....	New Freedom, PA

## BACHELOR OF SCIENCE IN AEROSPACE ENGINEERING

### Degree Conferred June 26, 1990

Juan Pablo Acevedo .....	Bucaramanga, Colombia
--------------------------	-----------------------

### Degree Conferred August 7, 1990

Dat Duong Giap .....	Raleigh
----------------------	---------

### Degrees To Be Conferred December 19, 1990

John William Brennan, Jr. ....	Springfield, VA
**Stephen Price Cook .....	Raleigh
Carl Wesley Kirby .....	Southport
Notra Jean Lail .....	Hickory
Gary Tao .....	Raleigh

†Co-major    \*Cum Laude    \*\*Magna Cum Laude    \*\*\*Summa Cum Laude    H Honors Program

## BACHELOR OF SCIENCE IN CHEMICAL ENGINEERING

### *Degrees Conferred June 26, 1990*

**Janine Carlan Burleson	Charlotte
***Jeffrey Ralph Kelby	Cary
Ray Louise Umstead	Durham

### *Degree Conferred August 7, 1990*

Anna Revonda Porch	Gastonia
--------------------	----------

### *Degrees To Be Conferred December 19, 1990*

Ashraf Zuhair Bedwan	Charlotte
Sharon Ruth Bokeny	Raleigh
Jonanne Costa Brailsford	Ellington, CT
Kathryne Alicia Brewington	Greensboro
Adrienne Nannette Brown	Kings Mountain
William Earl Cobb	Reidsville
David George Crowther	Raleigh
**Robert Shean Cumbee	Supply
Tina Marie Gaddy	Wadesboro
Sarah Elizabeth Gay	Wilmington
Kevin Jerome Gramelspacher	Tell City, IN
Charles Jefferson Harris	Kingsport, TN
*Angela Dawn Jarrett	Newton
†Bernardo A Jurado-Blanco	Maracay, Venezuela
**Mitchell Alan Malcolm	Centerville, GA
Jack Carlton Martin	Monroe
†Melinda Joyce McDaniel	Warner Robins, GA
**John Gerhard Michael	Warner Robins, GA
Andrea Leigh Nelson	Macon, GA
Robert Bora Nevruz	Lawrenceville, NJ
***Paul Ray Peters	Gibsonville
Darryl Wayne Rogers	Pilot Mountain
†Gregory Tyrone Worsley	Raleigh

## BACHELOR OF SCIENCE IN CIVIL ENGINEERING

### *Degrees Conferred June 26, 1990*

Gregory Paul Dover	Shelby
Louis Todd Dudley	Raleigh
Timothy Alan Jewett	Winston-Salem
Blb Alan May	Spring Hope
Gregory William Morrison	Charlotte
**Benjamin Byron Thomas	Cary

### *Degrees Conferred August 7, 1990*

Timothy Mark Arey	New London
Gardner Dulaney Jones II	Raleigh
Phillip Ashley Morrison	Midland
Curtis Wayne Thornton	Cary

### *Degrees To Be Conferred December 19, 1990*

***John Edmund Anderson	Roanoke, VA
James Mitchell Baise	Winston-Salem
Carl Andrew Barclay	Cary
*Kenneth Warren Bright	Sanford
Joelle Bryan	Havelock

†Co-major    \*Cum Laude    \*\*Magna Cum Laude    \*\*\*Summa Cum Laude    H Honors Program

**Scott Douglas Bryant	Raleigh
Mark Emmet Cooney	Cary
Shanda Harrelson Davenport	Manteo
Mary Alice Dickens	Rocky Mount
*James Michael Forehand	Goldsboro
William Cabell Garbee II	Lynchburg, VA
John Thomas Grimes	Silver City
*Alysia Gale Hedrick	Concord
John Thayer Jenkins II	Greenville
Roger Craig Kluckman	Fayetteville
Michael Phil Lewis	Pilot
**Rene Louise Martin	Cary
***Jeffrey Charles Moeller	Raleigh
Daniel Preston Moses	Charlotte
Gordon Shaw Myers	Raleigh
Jeffrey Scott Nelson	Fayetteville
Kit Allen Persiani	Jacksonville
Eric James Randall	Herndon, VA
*Pieter Karl Scheer	Misenheimer
*Richard Lee Van Tassel II	Pittsburgh, PA
Robert Anthony Vause	Selma
**Kevin William Vogel	Charlotte
James Kent Walker	Davidson
Lonnie Roland Watkins	Brevard
*James Brent Wescott	High Point
*Yvette Caroline White	Silver Spring, MD
William Arthur Williams II	Wilmington
Kenneth Brian Wrenn	Durham

#### BACHELOR OF SCIENCE IN CIVIL ENGINEERING— CONSTRUCTION OPTION

##### *Degree Conferred June 26, 1990*

Ronald Elton Davenport, Jr. .... Kinston

##### *Degree Conferred August 7, 1990*

†Kipp Wilson Cheek ..... Charlotte

##### *Degrees To Be Conferred December 19, 1990*

Scott Thomas Ajax ..... Cary  
 Terri-Lynne Banner ..... Huntersville  
 Randall Arthur Boyd ..... Cary  
 Scott Gardner Capps ..... Oxford  
 William Kevin Davie ..... Greensboro  
 Vernon Tucker Hackett ..... Laurinburg  
 Bryan Kent Jackson ..... Four Oaks  
 Dennis Wayne Jernigan ..... Benson  
 Derrick Wayne Lewis ..... Middlesex  
 Andy Charles Lovingood ..... Concord  
 William Craighead McGwier ..... Charlotte  
 Mark Laster Ogburn ..... Sanford  
 Jonathan McCalvin Overton ..... Henderson  
 Michael Wayne Stewart ..... Conover

#### BACHELOR OF SCIENCE IN COMPUTER ENGINEERING

##### *Degrees Conferred June 26, 1990*

†\*\*\*James Doyle Boggs, Jr. .... Westminster, MD  
 Danny Adam Roach ..... Lexington

†Co-major    \*Cum Laude    \*\*Magna Cum Laude    \*\*\*Summa Cum Laude    H Honors Program



**Degrees Conferred August 7, 1990**

**Vikas Chandra .....	Raleigh
Darryl Lawrence Hafermalz .....	Charlotte
†*David Bevel Nelson .....	Lexington

**Degrees To Be Conferred December 19, 1990**

Derek Durrell Ballard .....	Winston-Salem
†John Colin Bass .....	Greensboro
†Christopher Patrick Berlien .....	Salisbury
Loan Thi Bich Dang .....	Greensboro
Robert Douglas Edmondson .....	Creston
†Robert Earle Finley .....	Salisbury
**Samuel Anderson Garwood, Jr. ....	Lexington
Ryan Douglas Gatling .....	Pocomoke, MD
Karen Ystebøe Lanning .....	Burlington
Franco Stefano Venturi .....	Raleigh
†***Kam Fu Yee .....	Raleigh
Christopher John Zack .....	Rocky Mount
†Eric Robert Zothner .....	Cary

**BACHELOR OF SCIENCE IN COMPUTER SCIENCE**

**Degrees Conferred June 26, 1990**

Charles Henry Conrad .....	Hatboro, PA
George Bland Miler .....	Greenville, SC

**Degrees Conferred August 7, 1990**

Ivy Lynn Gates .....	Garland, TX
Gregory Scott Hester .....	Durham
William Patrick Howlett .....	St. Petersburg, FL
Simone Dianna Kellum .....	Piscataway, NJ
Bruce Todd Kluckman .....	Fayetteville
John Gerhard Matthews .....	Greensboro
Michael Keith Newnam .....	Elon College
Rhonda Aleathea Stanton .....	Long Branch, NJ
Connie Nannette Strickland .....	Wendell
Kenneth James Targosky .....	Cary
Scott Dennis Totaro .....	Charlotte
Robert Walter Trojak .....	Mount Holly, NJ

**Degrees To Be Conferred December 19, 1990**

David Holden Bank .....	South Boston, VA
Howard Arnie Barr .....	Wake Forest
*Derek Wayne Blalock .....	Charlotte
Brian Patrick Bledsoe .....	Winston-Salem
David Edward Bouzigard .....	Kinston
***Janet Anne Brewer .....	Chapel Hill
**William Scott Burney .....	White Oak
Terry Thomas Byron .....	Raleigh
Lynn Mueller Canaday .....	Raleigh
***Carla Janine Combs .....	Granite Falls
Tracey Marietta Covington .....	Rockingham
Todd Michael Dalness .....	Fayetteville
Andrew Joseph Foglia .....	Raleigh
***Savon Scarborough Gay .....	Wendell
Antonio Marcellus Green .....	Raleigh
Robert Wendell Green .....	Raleigh

†Co-major    \*Cum Laude    \*\*Magna Cum Laude    \*\*\*Summa Cum Laude    H Honors Program

William Thomas Hansley .....	Raleigh
*James Douglas Harwood .....	Albemarle
James Alexander Herring III .....	Thomasville
Karen Pennell Holman .....	Lenoir
Selene Waynetta Hudson .....	Lumberton
†Daniel Everett James .....	Burlington
Brian Johnson .....	Wichita, KS
Nicholas Dimitriou Koutsoupas .....	Naoussa, Greece
***Laura Anne Lehman .....	Cary
Larnell Lennon .....	Whiteville
Thomas Paul Lipps .....	Raleigh
Dennis Meek .....	Ithaca, NY
†John Christian Mohr .....	Raleigh
Thad McCoy Mullis .....	Lenoir
Christopher Lee Page .....	Tarboro
Joanne Waddell Paquette .....	Raleigh
Kenneth Edward Parker .....	Goldsboro
Guido Phillip Pfuhl .....	Charlotte
*Mark Donald Priest .....	Cape Girardeau, MO
Kent Scott Robinson .....	Putnam, NY
Michelle Renee Robinson .....	Conover
*Sami Fuad Shaban .....	Damascus, Syria
Martin Louis Simpson, Jr. ....	Vass
**Lori Christine Sullivan .....	Charlotte
Donald Morris Sutter .....	Raleigh
*Vernon Dale Thomas, Jr. ....	Aberdeen
***Sonja Hougom Tilley .....	Hillsborough
*Cam Le Tran .....	Winston-Salem
Pamela Leigh Vereb .....	Garner
James Lee Ward .....	Wilmington
*Melissa Kay White .....	Mocksville

## BACHELOR OF SCIENCE IN CONSTRUCTION MANAGEMENT

*Degree Conferred August 7, 1990*

†Kipp Wilson Cheek .....	Charlotte
--------------------------	-----------

## BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

*Degrees Conferred June 26, 1990*

***Dennis Ray Blankenship .....	Barboursville, WV
†***James Doyle Boggs, Jr. ....	Westminster, MD
Monica Beck Caputo .....	Raleigh
Donna Marie Garnett .....	Raleigh
David North Jackson .....	Fayetteville
Richard Bradley Kennedy .....	Greensboro
Karl Dean Parks .....	Winterville
Dipak Manilal Patel .....	Greensboro
Davor Antonio Pavisic .....	Cochabamba, Columbia
Phillip Andrew Smith .....	Grifton
Samuel David Swaringen .....	Albemarle
Victor Van Wallace .....	Greensboro
Joseph Michael Wooten .....	Wilson

*Degrees Conferred August 7, 1990*

***Doyle Bryan Allen .....	Lynchburg, VA
**John Patrick Anderson .....	Hot Springs
Victor Bass II .....	Garner

†Co-major    \*Cum Laude    \*\*Magna Cum Laude    \*\*\*Summa Cum Laude    H Honors Program

Ronnie Scott Fincher	Sanford
Sean Madison Fokes	Fayetteville
Trevor Gadson	Georgetown, SC
Michael Frederick Gaston	Raleigh
Bradley Martin Happel	Winston-Salem
Claude Michael Hargrove	Fayetteville
Charlie Perry Hilliard	Raleigh
Subir Kumar	Jamshedpur, India
***Tina May Lee	Hickory
John Gorham Low	Wilmington, DE
†*David Bevel Nelson	Lexington
James Frederic Ruby	Wilson
**Rodney Ray Rymer	China Grove
Scott Richard Stumpf	Raleigh
*Jeffrey Mark Winterich	Lynchburg, VA

*Degrees To Be Conferred December 19, 1990*

Jeffrey Allen Achauer	Raleigh
*George Martin Anderson, Jr.	Asheville
Omar Said Barakat	Qalgilia West Bank Israel
Jeffrey Andrew Barlow	Kinston
†John Colin Bass	Greensboro
†Christopher Patrick Berlien	Salisbury
Ramesh Bhatia	Raleigh
George Julian Bitar	Raleigh
Tabula Tonnette Bost	Greensboro
Leslie Howard Boyd II	Bahama
Michael Allen Brotherton	Sherrills Ford
Tri Quoc Bui	Charlotte
Timothy Milton Causey	Davidson
Michael Ng Chua	Raleigh
Binh Diep Chung	Raleigh
†*John Christopher Cleary	Hendersonville
Brian Keith Dalen	Freen Cove Spring, FL
Vinh Quang Dam	Charlotte
Inga Marquerite Davis	Tarboro
*John Fred Davis	Wilkesboro
William Andrew Davis	Winston-Salem
**Steven Brian Day	Andrews
William Robert Dees	Raleigh
Kevin Eric Dow	Houston, TX
Gregory Alan Driver	Wendell
Tuan Anh Duong	Raleigh
Hany Abdul-Hafez Elkordy	Cairo, Egypt
**Christine Cutrell Ferguson	Belhaven
†Robert Earle Finley	Salisbury
Joseph Lynn Flowers	Wilson
Stephen Kight Forbes	Roanoke Rapids
Susan Carol Gentry	Candler
William Joseph Grass	Asheville
Michael Joseph Hare	Asheville
Scott Brian Harris	Burlington
Dennis Arnold Haynes	Fayetteville
Andrew James Hooks	Henderson, NV
*Robert Melton Howerton	Greensboro
***Dennis Hui	Rocky Mount
Tamala Renee Jamieson	Greensboro
***Blake Alden Johnson	Chattanooga, TN

† Co-major      \*Cum Laude      \*\*Magna Cum Laude      \*\*\*Summa Cum Laude      H Honors Program

Kim Johnson	Roxboro
†***Jeffrey Allen Joines	Winston-Salem
*Elaine Gloria Jonezak	Gastonia
Antonio Zachary Jones	Kinston
Enessia Renee Jones	Littleton
Darrin Todd Joyce	Eden
*Kendell Franklin Key	Mount Airy
***Michael Kokos	Mentor, OH
***Marina Stephani Kouyialis	Nicosia, Cyprus
*Nicos Mikis Kouyialis	Nicosia, Cyprus
*David Robert Koziscek	Jacksonville
Frank Anderson Lackey, Jr.	Statesville
Chong Yong Lee	Raleigh
Janet Leigh Lewis	Garner
*Debbie Lynn Liske	Raleigh
Michele Leigh Loesch	Charlotte
DeJim Christopher Lowe	Madison
Richard Gregg Lumsden, Jr.	Durham
Reena Indranath Madan	Cary
Kuhanandha Mahalingam	Raleigh
*Timothy Patrick Malone	Hickory
David Keith Mauney	Shelby
Gregory Wayne Matthews	Mebane
Steven Malcolm McCullen	Durham
Richard Lee McKibben	Fayetteville
Tonya Alisa Melvin	Raleigh
*Mitzi Joy Misenheimer	Randleman
Veena Misra	Raleigh
Anna Marie Mitchell	Cary
†John Christian Mohr	Raleigh
Jeffrey Dale Morgan	Gold Hill
†Michael Austin Netzer, Jr.	Raleigh
Thuy Ngoc Nguyen	Goldsboro
Thomas Daravann Outtarac	Hampton, VA
Jeffrey Daniel Padgett	Charlotte
Thomas William Powell, Jr.	Elizabeth City
Peggy Lynn Hill Rasmus	Raleigh
Philip Floyd Rasmus	Rapid City, SD
Sudhir Reddy	Hyderabad, Andhra
*Kara Jean Rempfer	Ernul
*Kimberly Carol Ross	Marshville
Thomas Edward Rozier	Lake View, SC
Richard Timothy Ruff	Eden
Kurt Dennis Rush	Gaithersburg, MD
Robert Lee Scoggins	Leland
Carey Bryan Sharpe	Linwood
David Nelson Sherk	Rocky Mount
Andrew Dale Sigmon	Davidson
*Larry Kevin Snead	Burlington
Linwood Michael Stroud	Greenville
Karen Ann Szyplski	Cary
Tong Meng Tang	Hendersonville
Charles Eric Temple	Fayetteville
Hemant Ambalal Thakkar	Rocky Mount
Melissa Marie Thrush	Fort Walton Beach, FL
Hung Ngoc Tran	Charlotte
*John Douglas Trask	Raleigh
Kenneth Christopher Treimann	Turnersville, NJ
Susan Gaye Walker	Coats
Willis Pearce Weathers, Jr.	Burlington

†Co-major

\*Cum Laude

\*\*Magna Cum Laude

\*\*\*Summa Cum Laude

H Honors Program

Hope Irene Williams .....	Stokesdale
James Walker Williams, Jr. ....	Asheville
Eric Joseph Woerner .....	Dunn
Kenneth Lee Woollen .....	Charlotte
†***Kam Fu Yee .....	Raleigh
†Eric Robert Zothner .....	Cary

### BACHELOR OF SCIENCE IN FURNITURE MANUFACTURING AND MANAGEMENT

#### *Degrees Conferred June 26, 1990*

Joan Wu Hwang .....	Taichung, Tiawan
Roscoe Wade Peele, Jr. ....	Apex

#### *Degrees To Be Conferred December 19, 1990*

John Nathan Dowell .....	Newton
†Robert Judge Drew .....	Raleigh
James Robert Inscoc .....	Newton

### BACHELOR OF SCIENCE IN INDUSTRIAL ENGINEERING

#### *Degrees Conferred June 26, 1990*

Dorene Leanne Chartier .....	Raleigh
Ken Marcus Clifton .....	Benson
Asaad Raef Fadel .....	Casablanca, Morocco
Hilton Murrell Howard .....	Jacksonville
David Dewitt Kalish .....	Charlotte
Kenneth Tipton Skillman .....	Wilmington
David Wendell Yates .....	

#### *Degrees Conferred August 7, 1990*

Sheila Maureen Bennett .....	Raleigh
Ellen Birdsong Christy .....	Columbia, MD
***David Michael Dawson .....	Greensboro
Randall Keith Mizelle .....	Washington
Patrick Reid Morrah .....	Greensboro

#### *Degrees Conferred December 19, 1989*

Andrea LaCinda Ballard .....	Leland
Raymond Byron Ballard .....	Cary
Michele Tracy Battle .....	Greensboro
Darryl Leon Black .....	Fayetteville
Jeffrey Neil Britt .....	Rockford, IL
Howard Patrick Brown .....	Cary
Patty Wei-Pei Cheng .....	Durham
Warren Carl Childers .....	Goldsboro
LaShane Danielle Crutchfield .....	Rockville, MD
†Robert Judge Drew .....	Raleigh
Richard Andrew Gibson .....	Salisbury
Eric Ramon Guajardo .....	Durham
*William Thomas Hardy .....	Morehead City
Rhea Lorine Harris .....	Winston-Salem
*Ann Rothrock Hartman .....	Charlotte
**Mark Edward Hayes .....	Wilmington
Perrin Wattles Hunter .....	Sanford
Eric Charles Johnson .....	Raleigh
†**Jeffrey Allen Joines .....	Winston-Salem
Rodger Kirk Jones .....	Shelby

†Co-major    \*Cum Laude    \*\*Magna Cum Laude    \*\*\*Summa Cum Laude    H Honors Program

Jessica Anne Kelley .....	Cape Carteret
Janice Elizabeth Kleeman .....	Conklin, NY
Luke Edward Koerschner .....	Charlotte
James McClellan Langford .....	Ahoskie
Kellie Paige Leonard .....	Durham
**Kevin Dean Lowe .....	Stanley
Hye Rye Na Ma .....	Fayetteville
Ashley Carson Matthews .....	Wilmington
Benjamin Brian Matthews .....	Raleigh
Amy Lee Moran .....	Cary
Lou Ann Oakley .....	Rocky Mount
*Kenneth Alton Powell, Jr. ....	Valdese
Pamela Joy Powell .....	Cary
Sandra Denise Powell .....	Rocky Mount
Alfred Lewis Reid, Jr. ....	Gastonia
*Phillip Barden Renfrow .....	Kenly
Benjamin Dana Rhinehardt .....	Hickory
Kimberly Lynn Shelton .....	Marshall
Christine Marie Sieredzki .....	Greensboro
Cedric Bardett Smith .....	Brevard
David Weston Smith .....	Raleigh
Michael Ross Springston .....	Belpre, OH
Theresa Anita Thomas .....	Fayetteville
***Kimberly Ann Thompson .....	Raleigh
Brian David Vanover .....	Raleigh
*Arnt Georg von Ploetz .....	Salisbury
Lisa Wilmata Webber .....	Shelby
Cynthia Anne Wise .....	Rocky Mount

#### BACHELOR OF SCIENCE IN MATERIALS SCIENCE AND ENGINEERING

##### *Degrees Conferred August 7, 1990*

Robert John D'Amato .....	Moberly, MO
Robert Eugene Kestler, Jr. ....	Greensboro

##### *Degrees To Be Conferred December 19, 1990*

Kerwin Neal Holden .....	Sylva
Derrick Kyle Julian .....	Salisbury
Pamela Kay Laws .....	Roxboro
Kirk David Tackitt .....	Landenberg, PA

#### BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING

##### *Degrees Conferred June 26, 1990*

*Gregory Bruce Basden .....	Dudley
Mark Steven Curri .....	Utica, NY
*Dale Smith Davis .....	Thomasville
**Blake F. Deal III .....	Huntersville
Shahene Mark Neshat .....	Charlotte
Kevin Franklin Reason .....	Wilkesboro
Keith Lawrence Stanley .....	Shalote
Alfred John Trevillian, Jr. ....	Raleigh
*William Edward Wilkie II .....	Fletcher

##### *Degrees Conferred August 7, 1990*

***John Scot Gallimore .....	Davidson
Jonathan Lee Hatch .....	Four Oaks

†Co-major      \*Cum Laude      \*\*Magna Cum Laude      \*\*\*Summa Cum Laude      H Honors Program

Frederick Turner Hill III .....	Raleigh
Kenneth Todd Owens .....	Greensboro

***Degrees To Be Conferred December 19, 1990***

Clifton Charles Austin .....	Raleigh
Lance Alan Avery .....	Dunn
Frank Darryl Barile .....	Cary
James Walter Beam, Jr. ....	Greensboro
*William David Beck III .....	Winton-Salem
John William Brotherton .....	Sherrills Ford
*Richard Carey Brown .....	Nashville, TN
*Michael Aaron Buckner .....	Cullowhee
John Allen Burke II .....	Ligonier, PA
*Jesse James Burnette .....	Burlington
Rebecca Lee Carson .....	Leesville, SC
*Keith Dale Church .....	Lenoir
†John Christopher Cleary .....	Hendersonville
Joe Donald Clevenger .....	Hillsborough
David Kevin Clontz .....	Shelby
***James Kenneth Comer, Jr. ....	Edenton
Celia Dawn Cotton .....	Greensboro
Craig Ellis Crowther .....	Charlotte
Michael Thomas Dauterman .....	Mangilao, Guam
Jeffrey Fitzpatrick Duffy .....	Raleigh
Richard Clifton Edmondson .....	Rocky Mount
Steven Howard Farlow .....	High Point
Jeffrey Michael Fleck .....	Johnstown, PA
*Martin Robert Ford .....	Newportsville, PA
David August Frankena .....	Jamestown
Leonardo Sylvester Green .....	Raleigh
Alexander Grishin .....	Raleigh
Eisaku Shiokawa Groesbeck .....	Jacksonville
*Todd Anthony Grubb .....	Newark, OH
Mark Allen Hall .....	Greensboro
Thomas John Havelos .....	Charlotte
Eric Thomas Hice .....	Pleasant Garden
**Kirk Alexander Hoover .....	Lexington
Edwin Scott Houston .....	Forest City
Robert Earl Hughes .....	Weaverville
Harry Frederick Ingham II .....	Rochester, NY
*Jihad Georges Jabbour .....	Raleigh
***James Joseph Jetter .....	Holly Springs
*John Dee Kelley .....	Burlington
Gary Evans Kilpatrick .....	Statesville
John Young-Joon Kim .....	Greensboro
Rick Lee Kompelien .....	Roseau, MN
Jennifer Ann Kuchma .....	Longwood, FL
Mohammad Ali Malek .....	Raleigh
Frank Garrison Mangum .....	Sparta
Douglas Joseph Martoccia .....	Greenville
David Philip Matthews .....	Chattanooga, TN
Brian Darryl McCallister .....	Hendersonville
Guy Frank McCormick, Jr. ....	Fairmont
Bryan Anthony McKinney .....	Fletcher
James Franklin Miller, Jr. ....	Archdale
Jeffrey Ellis Miller .....	Terrell
Donald McCord Morse .....	Raleigh
Joseph Anthony Nardi .....	Raleigh
John Justice Page .....	Chapel Hill

†Co-major      \*Cum Laude      \*\*Magna Cum Laude      \*\*\*Summa Cum Laude      H Honors Program

*** Anne Paige Parker	Four Oaks
* Kevin Scott Paschal	Winston-Salem
Eric Jon Patow	Winston-Salem
Virginia Marie Prevatte	Aberdeen
Micheal Gregg Prince	Ellenboro
William Ross Pumphrey	Ashland, VA
Donald Eric Ramsey	Lincolnton
Daniel Houck Rebman	Raleigh
Christopher Micheal Robertson	Havelock
Montie Wayne Roland	Asheville
Edward Bagley Sanderford, Jr.	Raleigh
* Thomas Ronald Scattergood	Cary
** Michael Shane Sedell	Cary
Robert James Segelhorst	Davidsonville, MD
Thomas Michael Sember	Ulster Park, NY
Daniel Robert Shepherd	Gibsonville
** Kirk Darin Sherrill	Mooresville
Joseph Shiteyia Shiluli	Raleigh
Sherri Lynn Simpson	Arlington, VA
James Neal Singletary	Raleigh
** Stephen Moyers Strand	Greensboro
Dowon Rick Suh	Charlotte
Dean Shea Thomas	Mount Airy
Ronald William Timm	Creedmoor
Christopher Shane Tucker	Charlotte
Curtis Clay Tucker	Gritton
Joseph Blair Tyson	Cary
Thyron Dracel Williams	Jamesville

## BACHELOR OF SCIENCE IN NUCLEAR ENGINEERING

*Degree Conferred August 7, 1990*

Thomas Morello, Jr. .... Forked River, NJ

*Degrees To Be Conferred December 19, 1990*

Jonathan David Moore .... Havelock

# College of Forest Resources



## BACHELOR OF SCIENCE IN CONSERVATION

Jointly administered by the College of Agriculture and Life Sciences and the College of Forest Resources.

*Degrees To Be Conferred December 19, 1990*

David Bryan Jones .... Roxboro

† Co-major    \* Cum Laude    \*\* Magna Cum Laude    \*\*\* Summa Cum Laude    H Honors Program



Lauren Elizabeth Kolodij .....	Durham
†Michele Lynn Spersrud .....	Zebulon

## BACHELOR OF SCIENCE IN FORESTRY

### *Degrees Conferred June 26, 1990*

Larry Steven Hyde .....	Raleigh
Deborah Lynn Nahikian .....	Edgewater, FL
Eugene Gerald Raynor .....	Goldsboro
Terry Vann Sparrow, Jr. ....	Belhaven

### *Degree Conferred August 7, 1990*

Christopher Thomas Cobb .....	Tarboro
-------------------------------	---------

### *Degrees To Be Conferred December 19, 1990*

Thomas John Margo .....	Greenville, SC
†Brent Jerald McClendon .....	Raleigh
Brad Derek McGuire .....	Sugar Creek
Anthony Russell Meadows .....	Maysville
†Michele Lynn Spersrud .....	Zebulon

## BACHELOR OF SCIENCE IN PULP AND PAPER SCIENCE AND TECHNOLOGY

### *Degrees Conferred August 7, 1990*

James Alan Durkee .....	Rock Hill, SC
Stephen Lap Nguyen .....	Pisgah Forest

### *Degrees To Be Conferred December 19, 1990*

James Todd Coltrain .....	Pantego
†**Larry Scott Jackson .....	Ashland, VA
†Bernardo A Jurado-Blanco .....	Maracay, Venezuela
†Melinda Joyce McDaniel .....	Warner Robins, GA
Dennis William Singleton .....	Canton
Ronald Lee Smith .....	Brunswick, GA
Steven Robert Spencer .....	Gastonia

## BACHELOR OF SCIENCE IN RECREATION RESOURCES ADMINISTRATION

### *Degree Conferred June 26, 1990*

Joseph Scott Campbell .....	Chapel Hill
-----------------------------	-------------

### *Degrees Conferred August 7, 1990*

Lee-Ann Toler O'Neal .....	Louisburg
William DuBose Picquet .....	Charleston
Mary Jean Pope .....	Cedar Grove

### *Degrees To Be Conferred December 19, 1990*

Dawn Miranda Franklin .....	Richmond, VA
Stephen Andrew Gaertner .....	Raleigh
Jerilyn Highfill .....	Apex
Robert Thomas Hodge .....	Garner
Patty Sue Lake .....	St. Paul, MN
Gary William Mills .....	Raleigh
John Robert Moss .....	Greensboro
Kevin Andrew Young .....	Catonsville, MD

† Co-major      \*Cum Laude      \*\*Magna Cum Laude      \*\*\*Summa Cum Laude      H Honors Program

## BACHELOR OF SCIENCE IN WOOD SCIENCE AND TECHNOLOGY

### *Degree Conferred August 7, 1990*

Paul Xavier Taylor ..... Burlington

### *Degree To Be Conferred December 19, 1990*

Roman Morris ..... Statesville

# College of Humanities and Social Sciences



## BACHELOR OF ARTS IN ACCOUNTING

### *Degrees Conferred June 26, 1990*

Alan Philip Courtney Bannister ..... Toms River, NJ  
Elizabeth Colvin Berry ..... Southport  
Charmette Eskomita Brown ..... Paulsboro, NJ  
Thomas Bruce Brown ..... Ripley, WV  
William Robert Carey ..... Kingston, NY  
\*William Warner Chamberlain ..... Greensboro  
Sharon Paige Dunn ..... Burlington  
Beth Anne Gilpin ..... Newport  
\*Julie Ann Jones ..... Lake Katrine, NY  
Mary Allyson Lasley ..... Sanford  
James Gray McAllister IV ..... Hickory  
Jon Eric Merriman ..... Madison  
Robert Roosevelt Rice ..... Mount Olive  
Nancy Lorraine Terry ..... Albemarle  
\*Karen Dickerson Turner ..... Louisburg  
Jane Elizabeth Varner ..... Cary  
Melissa Jane Walker ..... Charleston, WV

### *Degrees Conferred August 7, 1990*

Melissa Batchelor Brewer ..... Jacksonville  
†Kevin Wayne Coats ..... Willow Springs  
Mark Leo Henson ..... Havelock  
Matthew Stephen Hutnan ..... Raleigh  
Richard Alan McCall ..... Lexington  
Jeffrey William Meigs ..... Jacksonville  
Katreia Diane Britt Moose ..... Rocky Mount  
Joseph Warren Nowell ..... Elizabeth City  
Ethel Harriet Priestley ..... Greensboro

† Co-major

\*Cum Laude

\*\*Magna Cum Laude

\*\*\*Summa Cum Laude

H Honors Program

Lisa Anne Prunty .....	Greensboro
Charles Maurice Young .....	Raleigh

**Degrees to Be Conferred December 19, 1990**

James Steven Baker .....	Clayton
†Benjamin Gerard Barbour .....	Raleigh
***Joanne Marian Bognet .....	Raleigh
Charlotte Ann Campbell .....	Cary
†Corey Leon Carter .....	Monroe, CT
Charles Derek Farmer .....	Beavercreek, OH
Jeffrey Todd Gardner .....	Wilmington
Kelly Elizabeth Green .....	Louisburg
†Brad Lamont Hamilton .....	Lincolnton
Elizabeth Virginia Hayes .....	N. Scituate, MA
†Brigitte Monique Hendrix .....	Fayetteville
Brian Scott Jackson .....	Fayetteville
†Peter Gregory Jackson .....	Pinehurst
Gaylon Everette King .....	Cary
Robbie Lavon Moye .....	Goldsboro
†Thomas Victor Pair .....	Knightdale
Jenese Johnson Patanella .....	Raleigh
Yuri Christina Pence .....	Graham
Angela Maria Spiller .....	Fayetteville
Clifton Gerald Stephens .....	Sanford
Talmadge Ray Wall, Jr. ....	Knightdale

**BACHELOR OF ARTS IN BUSINESS MANAGEMENT**

**Degrees Conferred June 26, 1990**

David Jay Bailey .....	
†Releata Evelyn Baker .....	Rose Hill
Martha Vinson Beaver .....	Garner
†Keith Joseph Bettex .....	Huntington, NY
Douglas Todd Buff .....	Morganton
†Timothy Leroy Bunce .....	Cary
David Douglas Butcher .....	Raleigh
James McGregor Carr .....	Raleigh
Christina Hae Won Chang .....	Charlotte
Andrea Renee' Chiles .....	Raleigh
Christopher Thomas Christian .....	Lumberton
Tyrus Raymond Cobb III .....	Charlotte
†Marcus Avery Danzy .....	Walnut Cove
Heather Lorraine Dietz .....	Raleigh
†Carl Lee Eason, Jr. ....	Brooklyn, NY
Lee Stuart Elson, Jr. ....	Cedar Grove, NJ
**Stephen Michael Fabian .....	Cleveland, OH
**William Thomas Fowler .....	Cary
†**Myron Stanley Herron, Jr. ....	Burlington
William Dasher High, Jr. ....	Fayetteville
Brian Todd Huggins .....	Raleigh
Samantha Michelle Jamgochian .....	Olney, MD
Karen Elizabeth Johnson .....	Asheville
William Anton Juhas .....	Raleigh
Jae Anne Lamb .....	Charlotte
Sarah Denise Lang .....	Greenville
Russell Eugene Lanning .....	LaGrange
†Mary Grady Lindsay .....	Waynesboro, VA
Julie Michelle McKee .....	Durham
Heena Manish Mehta .....	Chapel Hill

†Co-major    \*Cum Laude    \*\*Magna Cum Laude    \*\*\*Summa Cum Laude    H Honors Program

Michael Lewis Miller	Hickory
Clark Todd Norris	Hickory
Lionel Drew Olmstead	Atlanta, GA
Sandrina Lucille Osborne	Brooklyn, NY
Robert White Payne	High Point
†*Kent Robert Renner	Raleigh
†Thomas Edward Roberts, Jr.	Charlotte
†Ryan Karl Rosa	Salisbury
Daniel Ward Russell	Raleigh
Steven Wesley Settlemyre	Rocky Mount
Robert Scott Shafer	Raleigh
Richard Wesley Sheets	Fuquay-Varina
Scott Darris Shue	Salisbury
†David Woodley Spencer	Kill Devil Hills
*Rebecca Lynne Splawn	Burlington
Tracy Ann Sterck	Roswell
Carl Ray Stevens	Smithfield
Terry Marcus Swaim, Jr.	Salisbury
Kurt Duncan Tugman	Raleigh
Don Robert Watson	Wilson
Virgil Parker Whitehurst	Belvidere
**Matthew Cole Williams	Clayton
Audra Marie Wright	Aydlett

#### *Degrees Conferred August 7, 1990*

David Paul Beach	Durham
Levette Blount	Raleigh
Jeffrey Dale Bunner	Jacksonville
Julie Michelle Burris	Raleigh
Michael Dean Burton	Asheville
Catherine Marie Clontz	Raleigh
†Kevin Wayne Coats	Willow Springs
William Jeffrey Cobb	Raleigh
†Allen Dunlap Copeland	Durham
Garland Raynard Edgerton	Greensboro
†Brian Thompson Ezzelle	Wilson
Marvin Spotswood Ferrell	Winston-Salem
John Edmond Fishburne	Greensboro
Joseph Henry Fleming V	Charlotte
Rhonda Hanna Garrett	Enterprise, AL
William Richard Helms	Goldsboro
Mary Susan Hoffman	High Point
Tammy Early Holloway	East Palestine, OH
Robert Harry Hughes	Morristown, NJ
Brian Scott Jackson	Fayetteville
Jennifer Carole Lance	Asheville
John Charles Linn	Raleigh
Christopher Baldwin Lynch	Charlotte
Gregory William Miller	Asheville
†***Melissa Ruth Neal	Cary
David Brian Newberry	Raleigh
Casaundra Michelle Owens	Lexington
Clarence Ray Pegram, Jr.	Henderson
Amy Ruth Rowland	Garner
Janet Elaine Rutkowski	Raleigh
Tina Louise Saavedra	Saint Petersburg, FL
Jane Elizabeth Sears	Raleigh
†Richard Sean Spivey	Wilmington
Robert Paul Stanley, Jr.	Wilmington

†Co-major      \*Cum Laude      \*\*Magna Cum Laude      \*\*\*Summa Cum Laude      H Honors Program

*John Carlos Stiles .....	Cary
Gail Marie Tripp .....	Raleigh
Denise Kenya Tunnell .....	Baltimore, MD
Janice Candice Tunnell .....	Baltimore, MD
Clifton Benjamin Vann IV .....	Charlotte
Joseph Graham White, Jr. ....	Fuquay-Varina
Kathleen Marie Wilson .....	Statesville

*Degrees To Be Conferred December 19, 1990*

Berta Ramez Al-Chacar .....	Oxford
Lynne Shelese Amos .....	Charlotte
†Michael James Baker .....	Raleigh
Alan Phillip Courtney Bannister .....	Toms River, NJ
Michael Blaine Barbee .....	Tampa, FL
†Benjamin Gerard Barbour .....	Raleigh
Robert Cunnett Barbour .....	Concord
Brent Cortney Barrett, Jr. ....	Cary
Belinda D'Atria Battle .....	Raleigh
Kenneth Errol Baynes, Jr. ....	Jamestown
Anne Marie Beck .....	Cary
Clara Naomi Behar .....	Greensboro
Mark Allen Benson .....	Lorton, VA
Virginia Elisabeth Berry .....	Atlanta, GA
John Richard Biddix, Jr. ....	Marion
Greg Robert Biehn .....	Columbus, OH
Michael Caleb Bowser .....	Plymouth
Zane Ray Brisson, Jr. ....	Southern Pines
Victor Wayne Britt .....	Raleigh
Edwin Borden Broadhurst III .....	Raleigh
Mark Christopher Brown .....	Moyock
Lorraine Marie Butler .....	Charlotte
John Stewart Byrd .....	Wilson
Coreena Louise Cannon .....	Raleigh
***Patricia Anne Capoznoli .....	Boca Raton, FL
†Corey Leon Carter .....	Monroe, CT
Peter Alexander Chatt .....	Ramey, Puerto Rico
Etrick DeMorris Coley .....	Wilmington
†Bart Hammond Crum .....	Raleigh
Kristal Kay Crutchfield .....	Raleigh
†Harry Morton Davis IV .....	Kernersville
Paul Christopher Densmore .....	Raleigh
*Jennipher Ness Dillard .....	Raleigh
Shannon Theresa Duffey .....	New Bern
*JoAnn Marie Emerson .....	Anderson, IN
Stephen Adam Engelson .....	Bridgeport, CT
†***Charles Edward Ettridge .....	Marshfield, MA
†Robert James Farmer .....	Gastonia
Candace Harrell Fleming .....	Raleigh
West Leary Forehand, Jr. ....	Raleigh
†Steven Timothy Ross .....	Jacksonville
Jorge Ignacio Franchi .....	Fairfax, VA
Thomas Benjamin Gandolph, Jr. ....	Raleigh
Darryl Godwin .....	Wade
Scott Adam Goldenberg .....	Staunton, VA
John Alexander Goodman .....	Raleigh
†William Nolan Goodwin, Jr. ....	Raleigh
Windell Hermond Gorham .....	Roxobel
†Brad Lamont Hamilton .....	Lincolnton
Susan Kaye Hamm .....	Durham

†Co-major      \*Cum Laude      \*\*Magna Cum Laude      \*\*\*Summa Cum Laude      H Honors Program

†Mary Candace Haney	Charlotte
Daniel William Hardy	Whitsett
John Turner Harris	Richmond, VA
Linda Kelley Harris	Durham
†Philip Bruce Hartung	Salisbury
Michael Henry Harwell, Jr.	Raleigh
†***Mark Howard Hasty	Raleigh
†Brigitte Monique Hendrix	Fayetteville
Teresa Lynn Hicks	Roxboro
†Todd Atwell Hillyard	Harrisonburg, VA
Michael Andrews Hinton	Raleigh
†Judith Elaine Holloway	Charlotte
William Douglas Holt	Conover
†Laura Leigh Hooper	Vienna, VA
†Michael Anthony Howell	Wilmington
†Jeffrey Clark Howerton	Kernersville
Georgia Ikonomou	Greece
†Thomas McDougall Israel	Raleigh
†Peter Gregory Jackson	Pinehurst
Keun Woo Jon	High Point
Derick Edward Jones	Charlotte
Robert Warren Jurgens	Raleigh
Athena Kabylafkas	Marlton, NJ
Girish Pratap Karamchandani	Raleigh
Michael John Kavulic	Marietta, GA
†Michelle Lynn Kerry	Charlotte
†Rizgar Khoshnaw	Raleigh
Kevin Mark Klimezyk	Olean, NY
†David Lee Kurtz, Jr.	Raleigh
†John Edward Lackey, Jr.	Taylorsville
Peirson Freeman Lane	Rocky Mount
Tamara Renee Lane	Tyner
Joseph Adrien Lavigne, Jr.	Jacksonville
Anna Anderson Leary	Wallace
Robert Edward Lee	Greensboro
Roger Christopher Lee	Kinston
†Stavros George Liakakos	Raleigh
Cheryl Evette Lindsay	Winston-Salem
John Keith Little	Woodbridge, VA
Jennifer Lynn Manning	Asheville
†Susan Rebecca Maxwell	Rockville, MD
James Gray McAllister IV	Hickory
Phillip Todd McCartney	Raleigh
Catherine Maureen Meloling	Raleigh
John Hartley Mennear	Raleigh
Jon Eric Merriman	Madison
Teresa Elizabeth Milan	Durham
*Linda Steckenrider Miller	Raleigh
Christopher Alan Moore	Smithfield
†Tracy Ray Moore	Pinnacle
***Stephen Walter Morse	Rudgwick, England
Lee Currin Gooch Murray	Macon, GA
†Brian Keith Nance	Asheboro
Laura Lee Nicholson	Mannheim, Germany
†Wade Hampton Owens	Jacksonville
Erica Yvon Pace	Louisville, TN
†Thomas Victor Pair	Knightdale
*Michael Aaron Paoletti	Aiken, SC
Amy Landis Parker	Marion
Cynthia Lee Parker	Raleigh

†Co-major      \*Cum Laude      \*\*Magna Cum Laude      \*\*\*Summa Cum Laude      H Honors Program

Thomas Michael Parkin .....	Raleigh
† Ashley Heath Patterson .....	Trinity
James Raymond Patterson .....	Fayetteville
Henry Avon Perry, Jr. ....	Newton Grove
† Michelle Ann Pfeiffer .....	Raleigh
Robert Jackson Pickard III .....	Greensboro
Steven McCoy Pilkington .....	Smithfield
Barbara Jean Proctor .....	Apex
Walter Haywood Purvis .....	Henderson
† Dana Rawson .....	Raleigh
Husam Yousef Rayyan .....	Raleigh
† Mary Frances Reid .....	Greensboro
Herbert Cyrus Richardson .....	Louisburg
Michael David Richardson .....	Wilmington
*** Kimberly Dawn Ridout .....	Morrisville
James Miller Ross, Jr. ....	Claremont
Traci Suzanne Rouse .....	Kinston
Jolie Rae St Pierre .....	Gastonia
William Farrell Salmon .....	Durham
Robert Lee Scherer, Jr. ....	Cary
Mark Daniel Schiewe .....	Rocky Mount
John Duncan Schilling .....	Columbia, MO
† Frederick Michael Schneider .....	Great Falls, VA
Paul Franklin Sipe .....	Hickory
William Cola Slade, Jr. ....	Silver Spring, MD
Britton Scott Smith .....	Lexington
Donna Kaye Smith .....	Kinston
Sharon DeVette Stanback .....	Southern Pines
* Jennifer Lynn Stearns .....	Raleigh
Brian Matthew Stone .....	Cape Elizabeth, ME
Wesley Neil Styers .....	Gastonia
Dennis Hayes Sullivan, Jr. ....	Raleigh
Andrea Leigh Sutherlin .....	Stem
† John Thomas Tate, Jr. ....	Valdese
James Blake Tharin .....	Rocky Mount
Agnes Linnette Thompson .....	Pinehurst
* Gary Randall Tolliver .....	Kinston
† Brian Nelson Top .....	Gaithersburg, MD
Sanjiv Thakor Topiwala .....	Charlotte
† Gregory Laurence Treanor .....	Burlington
† Steven Michael Trease .....	Newton, IA
† Robert Francis Tyynismaa .....	Jacksonville
Elizabeth Marie Van den Bout .....	Apex
Lakey Denise Walker .....	Raleigh
Christopher Shay Walsh .....	Longwood, FL
† Paul Richard Walter .....	Ridgefield, CT
Jeffrey Charles Webster .....	Randallstown, MD
† Jerry Matthew Williams .....	Raleigh
* Scott Emory Wilson .....	Whortonsville
Harry Alan Woodard .....	Jacksonville
Joe Dean Wright, Jr. ....	King
* William McDonnell York .....	Raleigh

## BACHELOR OF ARTS IN ECONOMICS

### *Degrees Conferred June 26, 1990*

† Releata Evelyn Baker .....	Rose Hill
† Keith Joseph Bettex .....	Huntington, NY
† Timothy Leroy Bunce .....	Cary

† Co-major      \* Cum Laude      \*\* Magna Cum Laude      \*\*\* Summa Cum Laude      H Honors Program

Latanya Demetria Clemons	Chapel Hill
†Marcus Avery Danzy	Walnut Cove
†Carl Lee Eason, Jr.	Brooklyn, NY
†**Myron Stanley Herron, Jr.	Burlington
Jennifer Carole Jackson	Atlanta, GA
†Mary Grady Lindsay	Waynesboro, VA
†*Kent Robert Renner	Raleigh
†Thomas Edward Roberts, Jr.	Charlotte
†Ryan Karl Rosa	Salisbury
Leslie Diane Silva	Wayne, PA
†David Woodley Spencer	Kill Devil Hills
Steven Wayne Wood	Raleigh

#### *Degrees Conferred August 7, 1990*

Karen Beth Beane	Bethesda, MD
†Brian Thompson Ezzelle	Wilson
Walter Haywood Purvis	Henderson
Lena Ladendra Rollinson	Wilmington
†Richard Sean Spivey	Wilmington

#### *Degrees To Be Conferred December 19, 1990*

†Michael James Baker	Raleigh
John Willis Chamberlain, Jr.	Raleigh
†Bart Hammond Crum	Raleigh
†Harry Morton Davis IV	Kernersville
†Robert James Farmer	Gastonia
†Steven Timothy Foss	Jacksonville
†William Nolan Goodwin, Jr.	Charlotte
†Mary Candace Haney	Charlotte
†Philip Bruce Hartung	Salisbury
†**Mark Howard Hasty	Raleigh
Larry Randall Heavener, Jr.	Kernersville
†Todd Atwell Hillyard	Harrisonburg, VA
†Judith Elaine Holloway	Charlotte
Xu Hong	Raleigh
†Laura Leigh Hooper	Vienna, VA
†Michael Anthony Howell	Wilmington
†Jeffrey Clark Howerton	Kernersville
†Thomas McDougall Israel	Asheville
†Michelle Lynn Kerry	Charlotte
†Rizgar Khoshnaw	Raleigh
†David Lee Kurtz, Jr.	Raleigh
†John Edward Lackey, Jr.	Taylorsville
†Stavros George Liakakos	Athens, Greece
†*Tracy Ray Moore	Pinnacle
†Brian Keith Nance	Asheboro
†Wade Hampton Owens	Jacksonville
Clarence Ray Pegram, Jr.	Henderson
†Dana Rawson	Raleigh
†Mary Frances Reid	Greensboro
Charles Thaddeus McKenzie Roberts	Raleigh
†Frederick Michael Schneider	Great Falls, VA
Julie Curtis Spence	Hillsborough
Michael Kyle Stillie	Winston-Salem
†John Thomas Tate, Jr.	Valdese
†Brian Nelson Top	Gaithersburg, MD
†Gregor Laurence Treanor	Burlington
†Steven Michael Trease	Newton, IA

†Co-major    \*Cum Laude    \*\*Magna Cum Laude    \*\*\*Summa Cum Laude    H Honors Program



†Robert Francis Tyynismaa .....	Jacksonville
†*Paul Richard Walter .....	Ridgefield, CT
†*Jerry Matthew Williams .....	Raleigh

## BACHELOR OF SCIENCE IN ECONOMICS

### *Degrees Conferred June 26, 1990*

Timothy Gene Marshburn .....	Wilmington
Christopher David Parks .....	Pfafftown

### *Degrees To Be Conferred December 19, 1990*

John Raymond Acker .....	Garner
Raymund Custer .....	Wilmington
John Roger Grove, Jr. ....	Greensboro

## BACHELOR OF ARTS IN ENGLISH

### *Degree Conferred June 26, 1990*

Everett Thomas Eckard .....	Hickory
-----------------------------	---------

### *Degrees Conferred August 7, 1990*

**Dorothy Moras Altman .....	Raleigh
John Scott Austin .....	Greensboro
John Lee .....	Charlotte
Tonya McLaurin .....	Fayetteville

### *Degrees To Be Conferred December 19, 1990*

Beth Ann Alley .....	Raleigh
Victor Paul Blizard, Jr. ....	Raleigh
Judith Lynn Bouché .....	Cary
Kimberly Paige Boyd .....	Raleigh
Kristie Anne Boyette .....	Raleigh
Ann Wilson Clegg .....	Hickory
Timothy Brett Clodfelter .....	Winston-Salem
Debora Lynn Conrad .....	Wallace
Caroline Christine Cortina .....	Raleigh
†***Charles Edward Ettridge .....	Marshfield, MA
Patricia Churn Fentress .....	Washington
Laura Elaine Fuller .....	Greensboro
John Robert Gamble, Jr. ....	Cary
Melissa Larkin Gibson .....	Charlotte
Rachel Leah Goldstein .....	Bayside, NY
Kurt Patrick Gorritz .....	Miami, FL
Marian Acrey Grissom .....	Henderson
*Jennifer Kim Hall .....	Raleigh
Reid Jackson Hardin .....	Winston-Salem
Lisa Renee Hearne .....	Garner
Tracey Lynne Hinson .....	Charlotte
Krista Lee Howard .....	Charlotte
Mark David Jenkins .....	Waldorf, MD
Anne Margaret Johnson .....	Raleigh
Lisa Katherine Lambert .....	Raleigh
Robert Benjamin Mace .....	Smyrna, DE
Curt Richard Mackey .....	Cary
Victor Ward Matthews, Jr. ....	Raleigh
Sylvia Kay McAlister .....	Biscoe
Beth Ann Penny .....	Benson
Lisa Suzanne Pignetti .....	Charlotte

†Co-major    \*Cum Laude    \*\*Magna Cum Laude    \*\*\*Summa Cum Laude    H Honors Program

Sarah Marie Pritchard .....	Cary
***Kimberly Lynn Rowell .....	Garner
Peggy Mary Salvatore .....	East Northport, NY
Donn Augusta Snipes .....	Morgantou
Paulette Melissa Verdell .....	Winston-Salem
Joseph Preston Wofford III .....	Raleigh
Cynthia Michelle Ray Woolard .....	Raleigh

#### BACHELOR OF SCIENCE IN ENGLISH

##### *Degree To Be Conferred December 19, 1990*

Stephen David Peck .....	Charlotte
--------------------------	-----------

#### BACHELOR OF ARTS IN HISTORY

##### *Degrees Conferred June 26, 1990*

Kenneth Lamar Fondren, Jr. ....	Hartford, AL
Hunter Thompson George II .....	Raleigh
Carter Hamilton Hunt .....	Greensboro
**Karen Branson McDonald .....	Cary
***Deborah Robinson Ritsema .....	Raleigh
Corbin Brian Shell .....	Pinebluff
Rosalind Siegrist .....	San Antonio, TX

##### *Degrees Conferred August 7, 1990*

Susan Renee Adkins .....	New Bern
William Hunt Archbold .....	Atlanta, GA
Geoffrey Dean Brooks .....	Greensboro
Romulus Sanderson Spencer III .....	Engelhard
Christopher Thomas Szanto .....	Poughkeepsie, NY
Dwayne Andre White .....	Oak City

##### *Degrees to Be Conferred December 19, 1990*

Michael William Bollendorf, Jr. ....	Allentown, PA
Edward Anderson Case .....	Macon
Patrick Walther Casseday .....	Durham
James Randolph Giles .....	Lynchburg, VA
Wendy Luann Griffin .....	Raleigh
David Lee Harris .....	Conover
David Martin Honeycutt .....	High Point
William Thomas Jackson .....	Bailey
***Marian Jeanne Johnson .....	Raleigh
John Anderson Keadle .....	Cary
Douglas Brian Lee .....	Vanceboro
Darrell Wayne Parnell .....	Abbeville, SC
†Ashley Heath Patterson .....	Trinity
**Lori Adams Reed .....	Durham

#### BACHELOR OF ARTS IN MULTI-DISCIPLINARY STUDIES

##### *Degrees Conferred June 26, 1990*

Derrick Lamont Cook .....	
Joel Stephen Johnson .....	Bladenboro

##### *Degrees Conferred August 7, 1990*

Sadri Gjonbalaj .....	Brooklyn, NY
***Mary Ann McVicker .....	Lincoln, NE

†Co-major      \*Cum Laude      \*\*Magna Cum Laude      \*\*\*Summa Cum Laude      H Honors Program

Robert Bradley Rhodes	Clemmons
Sandra Kay Woodson	Short Gap, VA
***Susan Hackbarth Young	Garner

*Degrees To Be Conferred December 19, 1990*

Sandra Jean Maki Hazen	Westminster, MA
Paul Jarett Hinson	Albemarle
*Nicole Marie Langford	Raleigh
Judith Marshall Lowery	Wake Forest
†Sharon Elizabeth Pope	Garner
†Marjorie Johnice Smith	Durham
John Wesley Wilkinson	Charlotte

**BACHELOR OF ARTS IN PHILOSOPHY**

*Degree Conferred June 26, 1990*

Sara Elise Hooper	Raleigh
-------------------	---------

*Degrees To Be Conferred December 19, 1990*

†**Scott Edward Allen	Saint Pauls
James Steven Chapman	Moncks Corner, SC
Douglas Wayne Edsall, Jr.	Ft. Lauderdale, FL
Shelley Kristine Kruse	Barrington Hills, IL

**BACHELOR OF ARTS IN POLITICAL SCIENCE**

*Degrees Conferred June 26, 1990*

Sterling Lane Baker	Cary
John David Lambright	Wilmington, DE
Richard Dirk Selland	Salisbury, MD

*Degrees Conferred August 7, 1990*

Kelvin Cherry	Lewiston
Jonathan Paul DeHart	Raleigh
David John Ferris, Jr.	Wilmington
Jocelyn Marie Gailor	Raleigh
Lara Michelle German	Boomer
Robert Brittain Irwin	Burlington
Kevin Michael Lynch	Baldwin, NY
*Tracy Danette Turner	Mount Holly

*Degrees To Be Conferred December 19, 1990*

†**Scott Edward Allen	Saint Pauls
Michelle Devone Baldwin	Whiteville
Gregory Thomas Beam	Salisbury
William McCleave Bell III	Raleigh
Christopher Clark Bone	Penscola, FL
Patrick Lanier Bruce	Bolivia
David Fletcher Bullard	Wilmington
James Will Creech, Jr.	Huntersville
Margaret Josephine Exum	Rocky Mount
Christopher Gale Fry	Apex
Anthony Reynolds Hale	Aulander
David Wesley Heiman	New Bern
Christopher Lee Helms	Charlotte
Michelle Leigh Holland	Fayetteville
David Bouldin Hueske	Greensboro
Ferrell, Lee Jones, Jr.	Tabor City

†Co-major      \*Cum Laude      \*\*Magna Cum Laude      \*\*\*Summa Cum Laude      H Honors Program

Reginald Macrone Jones	Tarboro
Charles Russell Knight	Raleigh
Anne Teresa Leach	Columbia, MD
Carson Rhyne Lindsey	Charlotte
Janet Elizabeth Martin	Raleigh
David Francis Masters-Moore	Raleigh
Elaine Lynn McKay	Maiden
BridgetAnn Kathryn McLain	Raleigh
James Sean McMillan	Charlotte
James Franklin Meade, Jr.	Durham
Michael Chalmers Middleton	Charlotte
Alden Patrick Miller	Elizabeth City
Alan William Mitchell	Raleigh
Karen Michelle Montgomery	Winston-Salem
Diana Lynn Moore	Charlotte
Keri Jean Reilly	Kingston, NY
Shubhra Jawahar Sawardeker	Raleigh
David Hampton Sewell	Wilmington
Toby Edgcomb Symonds	Raleigh
William Mark Twilla III	Charlotte
William Coefield Wiggins, Jr.	Grifton

## BACHELOR OF ARTS IN SOCIOLOGY

### *Degrees Conferred June 26, 1990*

Charles Reed Allen	Charlotte
*Diane Elizabeth Juhas	Raleigh
David Andrew Paynter	Goldsboro
Elizabeth Lawrence Ramsey	Shelby
Kathleen Elizabeth Woodward	Statesville

### *Degrees Conferred August 7, 1990*

Maria Lisa Gilbert	Laurinburg
Kenneth Raymond Lentz	Raleigh
Derrick Neil McCraw	Greensboro
Volire DeCarlo Tisdale	Greensboro

### *Degrees To Be Conferred December 19, 1990*

Amy Rene Castor	Salisbury
Brian Thomas Flannery	Garner
Jennifer Kay Jenkins	Matthews
Lucius Sanderfood Jones, Jr.	Wendell
James Edward McElroy II	Morehead City
Kelly Ann McNelis	Fuquay Varina
*Marlee Elizabeth Moore	New Bern
Christine Anne Murphy	Camp Lejeune
Brian Edward Raitz	Kannapolis
Farron Stacy Riggs	Gaithersburg, MD
Alexandra Lara Rohde	Charlotte
Charles Cleveland Staley	Sanford
April Dawn Thomas	Denver
Karen Marie Williams	Raleigh
Donna Louise Wilson	Barnardsville
Cynthia Lynn Wright	Raleigh

## BACHELOR OF ARTS IN SPANISH LANGUAGE AND LITERATURE

### *Degree Conferred June 26, 1990*

Sarah Katherine Hogarty	Westhampton, NY
-------------------------	-----------------

†Co-major      \*Cum Laude      \*\*Magna Cum Laude      \*\*\*Summa Cum Laude      H Honors Program

*Degrees Conferred August 7, 1990*

†Allen Dunlap Copeland .....	Durham
Rebecca Jean Colby .....	Graham
†***Melissa Ruth Neal .....	Cary

*Degrees To Be Conferred December 19, 1990*

Tracey Dawes Cox .....	Raleigh
Thanh Le Duc Dinh .....	Raleigh
Tatiana Maria Haas-Castro .....	St. Louis, MO
†*Susan Rebecca Maxwell .....	Rockville, MD

**BACHELOR OF ARTS IN SPEECH COMMUNICATION**

*Degrees Conferred June 26, 1990*

Valerie Dawn Clark .....	Raleigh
Susan Jane Dickey .....	New Bern
Vivian Dawnn Diggs .....	Newark, NJ
*Willie Robert Dudley, Jr. ....	Asheboro
Melody Rae Hall .....	Eden
Joy Griffin Jones .....	Nashville
Trent Steven McCranie .....	Lakeland, FL
Wanda Forletta McIntosh .....	Kannapolis
Maria Nixon .....	Raleigh
Kenneth Brad Walsler .....	Salisbury
Kimberly Payne Willcox .....	Raeford
Paul Floyd Woolverton, Jr. ....	Raleigh

*Degrees Conferred August 7, 1990*

Heather Maria Cheek .....	Chapel Hill
Carlynn Sue Davey .....	Apex
John Dana German .....	Boomer
Thomas Brent Huminik .....	Great Falls, VA
Kimberly Denise Ivey .....	Rockingham
Krista Rea Kilburn .....	Fayetteville, GA
Paul Andra Kinlaw .....	Jacksonville
Karla Ann Odeen .....	McLean, VA
Kelly Kiernan Piggott .....	Lynchburg, VA
Terry Reese, Jr. ....	Orlando, FL
Christa Anne Traber .....	Asheville
Elizabeth Eva Wall .....	Marion
Elizabeth Hartness Wilkins .....	Charlotte

*Degrees To Be Conferred December 19, 1990*

Corinne Melissa Acasio .....	New Bern
Comell Theodore Baroody .....	Winston-Salem
William Timothy Batts .....	Cary
Robert Paul Brown .....	Newport News, VA
Michael Durant Brownlee, Jr. ....	Fayetteville
Kristin Ann Bryant .....	Raleigh
Susan Catherine Bullock .....	Salisbury
Mary Florence Campbell .....	Jacksonville
John David Claggett .....	Raleigh
Susan Jeanette Coley .....	Stem
Frances Jordan Dahlgren .....	Washington
Sarah Dianne Dale .....	Marion
Stephanie Elizabeth DiCaprio .....	Hurley, NY
Tonia Heaton Diggs .....	Hamlet

† Co-major    \* Cum Laude    \*\* Magna Cum Laude    \*\*\* Summa Cum Laude    H Honors Program

**Michelle Wilkinson Dobbs	Cary
Wallace Arrington Duke III	Raleigh
Donna Kay Epley	Lexington
Melody Gardner Eshak	Ayden
Kelly Ann Finnerin	Randolph
Teresa Lynn Fisher	Raleigh
Kenneth Thomas Fore	Laurinburg
*Kathleen Janet Frazer	Charlotte
Michael David Frontiero	Raleigh
Paul Brandon Gamewell	Salisbury
**Patrick William Garrett	Roanoke, VA
Laura Jane Godwin	Greensboro
David Lee Greenwell	Salisbury
*Catherine Lynn Hage	Vineland, NJ
Sonja Raquel Harlow	Roanoke Rapids
Helen Leah Hayes	Raleigh
Rhodney Verdell-Olanda Hunt	Cambria Heights, NY
Casondra Renee Hunter	Laurinburg
*Dana Michelle Inge	Forest, VA
Jennifer Lynn Jolles	Penn Valley, PA
Kristina Rebecca Kalnin	Raleigh
William Bruce Lennon	Wilmington
Christopher Noel Lutkowski	Basking Ridge, NJ
Aaron Keith McCullough	High Point
Jamie Leigh Metcalf	Bakersville
Tracye Taylor O'Bannon	Greenville
Tracy Jo Paulson	Henderson
†Michelle Ann Pfeiffer	Raleigh
Martha Drew Pinekney	Wilmington
**Kerry Lynn Polglase	Raleigh
Leslie Britt Price	Raleigh
Robin Michele Ray	Burlington
Phil Allan Reese II	Raleigh
Katherine Drewry Reid	Wilmington
Sharon Elaine Rohrbach	Raleigh
Sheldon Martin Routh	Greensboro
Elizabeth Epley Sawyer	Raleigh
Myrna Lynn Sawyer	Raleigh
Shawn Lee Shoffner	Burlington
Nataline Ann Sloop	Kannapolis
Sarah Melissa Small	Newark, DE
Allen Keith Smith	Raleigh
Gene Carlton Stephenson, Jr.	Angier
Kathryn Ann Sullivan	Fredericksburg, VA
Kelley Patricia Sullivan	Verona, NJ
*Molly Lynn Tallent	Durham
Anthony Villanova II	Louisville, KY
Donna Terri Williams	Matthews
James Edwin Wrigglesworth, Jr.	Kenbridge, VA

## BACHELOR OF SOCIAL WORK

### *Degrees Conferred June 26, 1990*

Karen Bullock	Henderson
*Jennifer Annette Russell	Yanceyville
Patricia Suzanne Sanders	Fort Myers, FL

†Co-major      \*Cum Laude      \*\*Magna Cum Laude      \*\*\*Summa Cum Laude      H Honore Program

*Degrees Conferred August 7, 1990*

Anne McNeill Laviner .....	Wagram
Wendy Marie Malkowski .....	Raleigh
Robert Edward Neal III .....	Raleigh
Lisa Louise Smith .....	High Point

*Degrees to Be Conferred December 19, 1990*

Maria Suzanne Adams .....	Hendersonville
Cheryl Geneen Donahue .....	Greensboro
** Amy Elizabeth Friend .....	Frostburg, MD
* Elizabeth Anne Hale .....	Cary
Marcia Ann Harrison .....	Kannapolis
* Kirsten Elizabeth Hewitt .....	Chapel Hill
Anna Marie Lopez .....	Jacksonville
*** Darcy Clay-Fleming Siebert .....	Raleigh
Tonji Laidler Stang .....	Greensboro
Katherine Frances White .....	Raleigh

## College of Physical and Mathematical Sciences



### BACHELOR OF ARTS IN CHEMISTRY

*Degrees Conferred June 26, 1990*

Sandra Elizabeth Cathcart .....	Raleigh
† Philip Ansel McClellan .....	Shelby
George John Sawyer IV .....	Charlotte
James H. Williams .....	Winston-Salem

*Degrees Conferred August 7, 1990*

Clayton Keith Carter .....	Wallace
*** Joseph Richard DePrisco .....	Raleigh
Brian Lee Hass .....	Newton
Marcus Levon Leathers .....	Rocky Mount
H† Darlene Brown Medford .....	Cary
* Sonya Lynnette Windham .....	Bennettsville, SC

*Degrees To Be Conferred December 19, 1990*

† John Raymond Acker .....	Garner
** Leslie Marie Anstey .....	Raleigh
† Stephen Donald Benjamin .....	Charlestown, IN
* Philip Julian Bradley .....	Savannah, GA

† Co-major    \*Cum Laude    \*\*Magna Cum Laude    \*\*\*Summa Cum Laude    H Honors Program

Autumn Renee Chapman .....	Franklinton
†Paul Marshall Duncan .....	Richmond, VA
Tracey Marchette Garner .....	Greensboro
†*Michael Joseph Goodheart .....	Raleigh
Kimberly Michelle Henry .....	Brooklyn, NY
†Bryan Wayne Kluttz .....	Kannapolis
†*Lora Ann Long .....	Apex
†Sang Woon Myung .....	Greensboro
†Kelly Lynn Prelipp .....	Charlotte
†**Harlan Luke South .....	Richmond, VA
Scott William Tease .....	Jacksonville
Tracy Edmund Thompson .....	Mt. Gilead
†Gregory Tyrone Worsley .....	Raleigh

## BACHELOR OF SCIENCE IN CHEMISTRY

### *Degrees Conferred August 7, 1990*

*Charles Edward Bailey .....	Raleigh
Jason Bradley Prabel .....	Chadds Ford, PA
David Vernon Ray .....	Kernersville
Donald Curtis Robertson .....	Roanoke Rapids

### *Degrees Conferred December 19, 1989*

Robert Britt Baker .....	Cary
*Christopher Stan Cameron .....	Sanford
Mark Edward Filla .....	Whitehall, PA
Dennis William Hall .....	Garner
Robert Michael Hamm .....	Charlotte
†Michele Rene Lefebvre .....	Morganton
Paul Joseph Lohr .....	Kernersville
Elmo Cecil Mabe, Jr. ....	Mayodan
John Mark Rogers .....	Pisgah Forest
Margaret Ann Sharkey .....	Hillsboro, OH

## BACHELOR OF ARTS IN GEOLOGY

### *Degree To Be Conferred December 19, 1990*

Badriah Lynn Abdo .....	Bahama
-------------------------	--------

## BACHELOR OF SCIENCE IN GEOLOGY

### *Degree Conferred August 7, 1990*

Glenn Shubert Shell .....	Claremont
---------------------------	-----------

### *Degree To Be Conferred December 19, 1990*

***William Alexander Lumsden .....	Raleigh
------------------------------------	---------

## BACHELOR OF SCIENCE IN MATHEMATICS

### *Degrees Conferred June 26, 1990*

Thomas Brooks Boyette, Jr. ....	Warsaw
Erik Donald Dahlin .....	Bethesda, MD

### *Degrees Conferred August 7, 1990*

***Robert Benton Armstrong, Jr. ....	Sanford
Michael Eugene Davis .....	Raleigh
Parcilla Ann Harrell .....	St. Pauls
Donald Carlyle Rich .....	Raleigh

†Co-major      \*Cum Laude      \*\*Magna Cum Laude      \*\*\*Summa Cum Laude      H Honors Program



*Degrees To Be Conferred December 19, 1990*

Rehan Ali Aziz .....	Raleigh
Barbara Ann Bone .....	Wilmington
Chu Yong Chong .....	Jacksonville
**Terri Lynne Hefner .....	Newport News, VA
*Ramonda Dea Hunter .....	Oak Ridge, TN
†Daniel Everett James .....	Burlington
Gregory Lee Jefferson .....	Fayetteville
**Alison Elaine Pelphrey .....	Raleigh
*Joseph Rayho .....	Monroe, CT
***Susan Patricia Samland .....	Grand Island, NY
Jereilyn Lee Sweigard .....	Raleigh
Richard Egon Tatem .....	Concord
*Dana Lynn Williams .....	Monroe

**BACHELOR OF SCIENCE IN METEOROLOGY**

*Degree Conferred June 26, 1990*

Donald Brett Williams .....	Red Oak
-----------------------------	---------

*Degrees To Be Conferred December 19, 1990*

**Edward Thomas Piotrowski .....	Jacksonville
Tommie Galbraith Tiller, Jr. ....	Baltimore, MD

**BACHELOR OF SCIENCE IN PHYSICS**

*Degree Conferred August 7, 1990*

Scott Mathew Greenough .....	Enfield, CT
------------------------------	-------------

*Degrees To Be Conferred December 19, 1990*

David Addison Casey .....	High Point
†Michael Austin Netzer, Jr. ....	Raleigh
Michael Thomas Rubes .....	Raleigh

**BACHELOR OF SCIENCE IN STATISTICS**

*Degree Conferred June 26, 1990*

Veronica Lynn Parker .....	Durham
----------------------------	--------

*Degree Conferred August 7, 1990*

Diane Marie McCowin .....	Gaithersburg, MD
---------------------------	------------------

*Degree To Be Conferred December 19, 1990*

Ronald Brooke Erbrecht .....	Pittsburgh, PA
------------------------------	----------------

†Co-major      \*Cum Laude      \*\*Magna Cum Laude      \*\*\*Summa Cum Laude      H Honors Program

# College of Textiles



## BACHELOR OF SCIENCE IN TEXTILE ENGINEERING

Jointly administered by the College of Textiles and the College of Engineering. See page under College of Engineering for a listing of the graduate seniors in the jointly administered department.

## BACHELOR OF SCIENCE IN TEXTILE CHEMISTRY

### *Degrees Conferred June 26, 1990*

David Eric Carpenter ..... Gastonia  
Amy Elizabeth Chandler ..... New London

### *Degrees To Be Conferred December 19, 1990*

†Michele Rene Lefeber ..... Morganton  
Patrick Arthur Whitford ..... Ernul

## BACHELOR OF SCIENCE IN TEXTILE AND APPAREL MANAGEMENT

### *Degrees Conferred June 26, 1990*

\*\*Linda Ellen Copeland ..... Greensboro  
Hua Li ..... Raleigh  
Christopher Dean McGuirt ..... Charlotte  
Andrew Down Page, Jr. .... Southern Pines

### *Degrees To Be Conferred December 19, 1990*

Terry Gale Brasier ..... Bunnlevel  
William Russell Hughes III ..... Burlington  
Cassandra Renee Johnson ..... Morristown, NJ  
Harry Manson Leete, Jr. .... Warrentown  
Michael Todd Ludwick ..... Richfield  
Melissa Mary Malloy ..... Charlotte  
\*Natalie Lynn McNair ..... Raleigh  
Deborah Jean McVicker ..... Concord  
Tracy LaVerne Perry ..... Wilmington  
Ricky Dean Shoaf ..... Lexington  
Lee Charles Thompson ..... Sanford  
Patrick O'Neal Wood ..... Cove City

## BACHELOR OF SCIENCE IN TEXTILE SCIENCE

### *Degree Conferred June 26, 1990*

Matthew Carlton Hodges ..... Mt. Airy

### *Degree To Be Conferred December 19, 1990*

Joey Garland Jacobs ..... Fairmont

†Co-major    \*Cum Laude    \*\*Magna Cum Laude    \*\*\*Summa Cum Laude    H Honors Program

**BACHELOR OF SCIENCE IN TEXTILES**

*Degrees To Be Conferred December 19, 1990*

Jill Gowan Guest .....	Charlotte
Jennifer Kaye Hrometz .....	Stoneville
Christa Michelle Lynam .....	Matthews

**SCHOOL OF  
VETERINARY MEDICINE**



**DOCTOR OF VETERINARY MEDICINE**

*Degree To Be Conferred June 26, 1990*

Lee-Ann Christie .....	Raleigh
------------------------	---------

*Degree To Be Conferred August 7, 1990*

Susan Williams Helton .....	Morganton
-----------------------------	-----------

†Co-major

\*Cum Laude

\*\*Magna Cum Laude

\*\*\*Summa Cum Laude

H Honors Program

# GRADUATE DEGREES

## Master's Degrees



### MASTER OF AGRICULTURE

#### *Degrees Conferred August 7, 1990*

Curtis Dean Fountain .....	Tarboro
Peter John Jensen .....	Orleans, MA

#### *Candidates for Degree December 19, 1990*

David Lynn Dycus .....	Sanford
Mark McCrea Keene .....	Mt. Olive
Owen Bryant Martin .....	Warsaw
Maurice Irvin McAlister .....	Marshall

### MASTER OF ARCHITECTURE

#### *Degrees Conferred August 7, 1990*

John Alexander Poorman .....	Raleigh
Michael Roy Secor .....	Buffalo, NY

#### *Candidates for Degree December 19, 1990*

Alicia Bird Derry .....	Raleigh
Mona Ahmed El-Daly .....	Cairo, Egypt

### MASTER OF CIVIL ENGINEERING

#### *Degrees Conferred August 7, 1990*

Richard Van Argabright .....	Winston-Salem
Gregory Scott Briggs .....	Altus, OK
William Kuo Chi .....	Chapel Hill
Samuel Thomas Roudebush .....	Raleigh
Fu-Shiung Wang .....	Kaohsiung, Taiwan, Republic of China
Charles Arthur Willis, Jr. ....	Charlotte

#### *Candidates for Degree December 19, 1990*

Alicia Carol Beard .....	Fayetteville
Linda Dosse .....	Raleigh
David Lawrence Eaddy .....	Hemingway, SC
Hediyanto Whidinugroho Husaini .....	Padang, Indonesia
Robert Edward Lasater, Jr. ....	Cary

### MASTER OF COMPUTER SCIENCE

#### *Candidate for Degree December 19, 1990*

Hsiangsen Cheng .....	Taipei, Taiwan, Republic of China
-----------------------	-----------------------------------

## MASTER OF ECONOMICS

### *Degrees Conferred August 7, 1990*

Cynthia Marie Burns .....	Fayetteville
Yi-Ping Chen .....	Tainan, Taiwan, Republic of China
Sri Ernawati .....	Raleigh
Janq-Shiann Lin .....	Taipei, Taiwan, Republic of China
Zamhari Wahyudin .....	Palembang, Indonesia
Mohamad Hasyin Zaini .....	Jakarta, Indonesia

### *Candidates for Degree December 19, 1990*

Can Arcasoy .....	Ankara, Turkey
John Wesley Clark .....	Atkinson
Simon John Kelly .....	Liverpool, England
Nelson José Santamaria .....	Valencia, Venezuela
Viljoen Williams .....	Ombalantu, Namibia

## MASTER OF EDUCATION

### Adult and Community College Education

#### *Degrees Conferred August 7, 1990*

Muriel Irene Evans .....	Raleigh
Phyllis Elaine Helms .....	Asheboro
Sherwood Louis Williams .....	Four Oaks

#### *Candidates for Degree December 19, 1990*

Denise McIntire Baker .....	Old Fort
Janet Stallings Cumbee .....	Wake Forest
Josephine Chadwick Emmons .....	Norristown, PA

### Agricultural Education

#### *Degree Conferred August 7, 1990*

James Carnie Oliver .....	Elizabeth City
---------------------------	----------------

#### *Candidate for Degree December 19, 1990*

Gilbert Ashley Lewis, Jr. ....	Fairmont
--------------------------------	----------

### Curriculum and Instruction

#### *Degrees Conferred August 7, 1990*

Charlotte Anne King Asyeue .....	Garner
Mary Dantzler Chambliss .....	Greensboro
Julia Lee Martin .....	Zebulon

#### *Candidates for Degree December 19, 1990*

Meredith Carolyn Carle .....	Durham
Harriet Loy Fletcher .....	Goldsboro
Lisa May Jefferys .....	Youngsville

### Educational Administration and Supervision

#### *Degrees Conferred August 7, 1990*

Faye Cox Gaines .....	Newton Grove
Trudi Mae Lacey .....	Tampa, FL
Terry Jon Weakley .....	Cottage Grove, MN

## Guidance and Personnel Services

### *Degrees Conferred August 7, 1990*

Louise Pottinger Eiswirth .....	Raleigh
Ricardo Ambrosio Parodi .....	Los Angeles, CA
Sarah Kathryn Shutt .....	Roanoke Rapids

### *Candidate for Degree December 19, 1990*

Melinda Jones Bissett .....	Raleigh
-----------------------------	---------

## Health Occupations Teacher Education

### *Candidates for Degree December 19, 1990*

Nancy Lynn Burkhardt .....	Charleston, SC
Pamela Staples Kirks .....	Raleigh
Brenda Efland Long .....	Roxboro
Sara Johnson Switzer .....	Raleigh

## Mathematics Education

### *Degrees Conferred August 7, 1990*

Mary Allison Bradley .....	Greensboro
Phyllis Edwards Danskin .....	Rocky Mount
Eileen Dunn Williams .....	Rochester, MN

## Middle Grades Education

### *Degree Conferred August 7, 1990*

Lynda Marley Summerlin .....	Durham
------------------------------	--------

### *Candidate for Degree December 19, 1990*

Delores Wooten Fogg .....	Raleigh
---------------------------	---------

## Science Education

### *Degrees Conferred August 7, 1990*

Arthur Leslie Langley .....	Louisburg
Gregory Thomas Morris .....	Wilson

## Special Education

### *Degrees Conferred August 7, 1990*

Sandra Marie Aliff .....	Raleigh
Lesley Henry Facello .....	Wilmington
Denise Bynum Jackson .....	Raleigh
Kathryn Bethea O'Meallie Launey .....	Raleigh
Mary Alice McIntosh .....	Charlotte
Virginia Thompson Smith .....	Apex
Tammy Lauren Stamper .....	Winston-Salem
Anne Bryan Williams .....	Greensboro

### *Candidates for Degree December 19, 1990*

Sondra Finklea Brown .....	Raleigh
Ann Price Finley .....	Raleigh
Michelle Elnora Steed .....	Raleigh

## Training and Development

### *Candidates for Degree December 19, 1990*

Marguerite Clark Curtis .....	Wilmington
Sarah Marcia Williams Harris .....	Raleigh

## MASTER OF ENGINEERING

### *Degree Conferred August 7, 1990*

Dempsey Bailey Brewer, Jr. ....	East End
---------------------------------	----------

### *Candidates for Degree December 19, 1990*

Joseph Charles Anthony .....	Cary
Marcia Lynn Doubet .....	Fuquay-Varina
Joseph Daniel Long .....	Greensboro

## MASTER OF FORESTRY

### *Degree Conferred August 7, 1990*

Mark Harlleee Powell .....	Raleigh
----------------------------	---------

## MASTER OF INTEGRATED MANUFACTURING SYSTEMS ENGINEERING

### *Degrees Conferred August 7, 1990*

Steffen Michael Fohn .....	Ludwigsinfen, West Germany
Carlos Jose Gonzalez-Miranda .....	Mayaguez, Puerto Rico
Barbara Joann Hurley .....	Whispering Pines
Chalamaiah N. Madipalli .....	Nidadavolu, India
Martin Eric Reeder .....	Winston-Salem
Pang-Min Wang .....	Taipei, Taiwan, Republic of China

### *Candidates for Degree December 19, 1990*

Wenliang Honng .....	Taipei, Taiwan, Republic of China
Diana Cecilia Silva Ledezma .....	Monterrey, Mexico
Chau Minh Tran .....	Raeford

## MASTER OF LANDSCAPE ARCHITECTURE

### *Candidates for Degree December 19, 1990*

Buddy Allen Franklin .....	Graham
Margaret Newsome Jones .....	Efland

## MASTER OF LIFE SCIENCES

### *Candidates for Degree December 19, 1990*

Terrence Michael Callahan .....	Utica, NY
Duy Nguyen Huynh .....	Raleigh
Michael Thomas Pilato .....	Raleigh

## MASTER OF MECHANICAL ENGINEERING

### *Degree Conferred August 7, 1990*

Lee Allen Barger .....	Newton
------------------------	--------

### *Candidate for Degree December 19, 1990*

Wade Henderson Berkebile .....	Hartsville, SC
--------------------------------	----------------

## MASTER OF NUCLEAR ENGINEERING

### *Degree Conferred August 7, 1990*

Kevin Stanford Beard ..... Buies Creek

### *Candidate for Degree December 19, 1990*

Raymond Herbert Voss ..... Farmington Hills, MI

## MASTER OF PRODUCT DESIGN

### *Degrees Conferred August 7, 1990*

Oscar Luis Arce ..... San Jose, Costa Rica

Vita Lynn Jones ..... Seattle, WA

Michael Blair Ligon ..... Blair, SC

### *Candidate for Degree December 19, 1990*

Rodney William Morton ..... Elm City

## MASTER OF PUBLIC AFFAIRS

### *Degrees Conferred August 7, 1990*

Alta Marie Perry ..... Detroit, MI

Lisa Pleasant Price ..... Wendell

Paul Christian Ridgeway ..... Raleigh

Bradley Kirk Smith ..... Mount Holly

### *Candidates for Degree December 19, 1990*

Steven Randall Gardner ..... Morganton

Stephen Craig Morrisette ..... Cary

Ramon Terry Revilla ..... Williamston

## MASTER OF RECREATION RESOURCES ADMINISTRATION

### *Degrees Conferred August 7, 1990*

\*Helene Blumenauer McCullough ..... Brentwood, NY

Kimberly Dawn Phillips ..... Greenville

### *Candidate for Degree December 19, 1990*

Deborah Lee Hancock ..... Raleigh

## MASTER OF STATISTICS

### *Candidates for Degree December 19, 1990*

Amanda Beth Haas ..... Hudson

Judith Nilmini Jayawickrama ..... Colombo, Sri Lanka

Louise Adelle Johnson ..... Bertand, NE

Rose Marie Martinez ..... Jacksonville

## MASTER OF TEXTILES

### *Candidates for Degree December 19, 1990*

Richard Oliver Brown ..... Greensboro

Mark Stuart Carlough ..... Concord

Hayim Sorin Cohen ..... Tel-Aviv, Israel

Wiryanto Sumaryo ..... Bandung, Indonesia

\* (Co-major: Public Affairs)



## MASTER OF ARTS DEGREES

### Archival Management

#### *Candidates for Degree December 19, 1990*

Susan Ann Robbins .....	Angier
Linda Anne Spencer .....	Cary

### English

#### *Degrees Conferred August 9, 1989*

Erik Albert Bledsoe .....	Asheboro
Emily Preston Bond .....	Independence, VA
George Arthur Cox, Jr. ....	Brownsville, TX
Thomas Edward Gould .....	Oakland, NJ
Shirley Ann Meehan .....	Raleigh
Kevin James Norris .....	Goldsboro
John Leslie Owen .....	Saxapahaw
Janyce Elaine Riess .....	Raleigh
Teresa Ann Taylor .....	Kinston
Bobby Michael Watts .....	Taylorsville

#### *Candidates for Degree December 19, 1990*

Carol Elizabeth Scovil Brinkley .....	Chapel Hill
Michael Leon Watson .....	New Bern

### History

#### *Degree Conferred August 7, 1990*

Pamela Robinson Hunter .....	Nashville
------------------------------	-----------

#### *Candidate for Degree December 19, 1990*

William Michael Gray .....	Raleigh
----------------------------	---------

### Liberal Studies

#### *Degrees Conferred August 7, 1990*

William Speller Smith, Jr. ....	Raleigh
Linda Gail Ramstack .....	Utica, MI

## MASTER OF SCIENCE DEGREES

### Adult and Community College Education

#### *Degree Conferred December 7, 1990*

Robert Milton Stivender .....	Angier
-------------------------------	--------

#### *Candidate for Degree December 19, 1990*

Mary Elizabeth Fanning .....	Chapel Hill
------------------------------	-------------

### Aerospace Engineering

#### *Degrees Conferred August 7, 1990*

Steven Howard Frankel .....	Dix Hills, NY
John Richard Gardiner .....	Wilmington, DE
Marc William Kniskern .....	Upper Marlboro, MD
John Landon Meyer .....	Raleigh
Leslie Lamonte Weaver, Jr. ....	Chester, VA

*Candidates for Degree December 19, 1990*

Kevin Cunningham .....	Columbus
Jack Ray Edwards, Jr. ....	Eden
Basil Hassan .....	Raleigh
Douglas James Hudson .....	Raleigh
James Donald Packard .....	Opelika, AL
Graham Scott Rhodes .....	Smithfield
James Edward Weger .....	Chuquiak, AK

**Animal Science**

*Degree Conferred August 7, 1990*

Steven Brooks Cabell .....	Tarboro
----------------------------	---------

**Agricultural Economics**

*Candidates for Degree December 19, 1990*

Frank Harris Belcher Kruse .....	Carrollton, MO
Mary Ann Martin .....	Camden, SC

**Biochemistry**

*Degree Conferred August 7, 1990*

Charles Meacham Harrell .....	Burgaw
-------------------------------	--------

**Biological and Agricultural Engineering**

*Degrees Conferred August 7, 1990*

Edward MacDonald Barnes .....	Pisgah Forest
Alicia Lee Lanier .....	Clarkton

*Candidate for Degree December 19, 1990*

Sidney Hunter Deck .....	Greensboro
--------------------------	------------

**Chemical Engineering**

*Degrees Conferred August 7, 1990*

Janice Lorrie Marshall .....	Marlboro, NJ
Christopher Neil Provan .....	Kingston, Jamaica

*Candidate for Degree December 19, 1990*

David Robert Zint .....	Alexandria, KY
-------------------------	----------------

**Chemistry**

*Degrees Conferred August 7, 1990*

Gail Hartmann Webster .....	Raleigh
Joseph Conrad Sloop .....	Lillington

*Candidates for Degree December 19, 1990*

Chunghim Kim .....	Seoul, Korea
Daniel Lee Woodard .....	Spring Hope

**Civil Engineering**

*Degrees Conferred August 7, 1990*

James Lloyd Douglass .....	Poquoson, VA
Wael Mazen Elseaidy .....	Raleigh

Darlene Desiree Kozub .....	Jamestown, NY
Marija Perisic .....	Belgrade, Yugoslavia

**Candidates for Degree December 19, 1990**

David Scott Harshman .....	Fairfax, VA
James Darrin Holt .....	Sanford
Melchor Pulido Mallare, Jr. ....	Marion, AL
James Fredrick Mehnert .....	Kansas City, KS
Donald Lee Moss, Jr. ....	Pilot Mountain
James Harvey Trogdon III .....	Hope Mills

**Computer Engineering**

**Degrees Conferred August 7, 1990**

Arun Anantharaman .....	Bangalore, India
Victor Minta Chen .....	St. Paul, MN
Teresa Abi-Nader Dahlberg .....	Uniontown, PA
Carl Thomas Gray .....	Forest, MS
Tse-I Kuo .....	Kaohsiung, Taiwan, Republic of China
Geetha N. K. Rangan .....	Bangalore, India

**Candidates for Degree December 19, 1990**

Lawrence Alan Cawley .....	Springfield, IL
Hwei-Ling Chen .....	Cha-Yi, Taiwan, Republic of China
Philip John Christensen .....	Raleigh
Susan Ann Huber .....	Raleigh
David Michael Wisnoski .....	Fort Worth, TX

**Computer Science**

**Degrees Conferred August 7, 1990**

Kimon Panayotis Kontovassilis .....	Athens, Greece
Seng Fuat Ou .....	Singapore
Markus Goetz Siegle .....	Stuttgart, West Germany
Mary Beth Smith .....	Charlotte
John Timothy Terrell .....	High Point

**Candidates for Degree December 19, 1990**

Larry Carson Bennett .....	Muncie, IN
Pei-Tsung Chiu .....	Taoyuan, Taiwan, Republic of China
Gregory Lee DeHoogh .....	Raleigh
Ravinder Devarajan .....	Madras, India
Sherman Bruce Gibbons .....	Raleigh
Sarah Beth Hall .....	Raleigh
Louis Leon Harrison .....	Philadelphia, PA
Taha Khedro .....	Aleppo, Syria
Amit Sanyal .....	New Delhi, India
Chien Dinh Vu .....	Saigon, Vietnam

**Crop Science**

**Degrees Conferred August 7, 1990**

Lackson Chisambiro .....	Lilongwe, Malawi
Janet Lea Marth .....	Bourbonnais, IL
Steven Boyd Moye .....	Goldsboro

**Candidates for Degree December 19, 1990**

Ellen Susan Blenk .....	Exeter, NH
Myron Ossie Fountain .....	Richlands

Dennis Donald Moorman ..... St. Maurice, IN  
Setyo Dwi Utomo ..... Bandar Lampung, Indonesia

## Ecology

### *Candidate for Degree December 19, 1990*

Mary Kay Clark ..... Elizabethtown

## Electrical Engineering

### *Degrees Conferred August 7, 1990*

Hanmant Pramod Belgal ..... Pune, India  
Alexander Richard Dalal ..... Rockville, MD  
Gary Wayne Dawson ..... Raleigh  
Mihail Devetsikiotis-Hadjinicolaou ..... Thessaloniki, Greece  
Ronald Albert Kuhn ..... Damascus, MD  
Jerry Michael Reid ..... Winston-Salem  
William Mark Treat ..... Durham

### *Candidates for Degree December 19, 1990*

Hayssam Mohamed Alsous ..... Durham  
Robert Floyd Benningfield, Jr. .... Winston-Salem  
Jeffrey Owen Chandler ..... Raleigh  
Douglas Harold Cox ..... Raleigh  
Kevin Lee Cureton ..... College Station, TX  
Victor Joseph Duvanenko ..... Indianapolis, IN  
Agustín Fernández-León ..... Madrid, Spain  
David Eugene Graybeal ..... Blacksburg, VA  
Douglas Ticknor Grider ..... Ruston, LA  
Gihan Moustafa Karmous ..... Raleigh  
Thomas Paul Karnowski ..... Knoxville, TN  
Peter Marshall Mangum ..... Raleigh  
Jacqueline Draper Parrish ..... Raleigh  
James Douglas Patterson ..... Raleigh  
Robert Yaeger Peters, Jr. .... Greensboro  
Brian Earle Purvis ..... Bennett  
Daniel Roy Winkelstein ..... Pittsburgh, PA  
Frederick Evans Reed ..... Naperville, IL  
Xiaowei Ren ..... Beijing, People's Republic of China  
Herbert Rivera-Sánchez ..... Carolina, Puerto Rico  
Frederick Peter Symonds ..... Knoxville, TN  
Robert Peter Vaudo ..... Somerville, MA

## Entomology

### *Candidates for Degree December 19, 1990*

Lisa Joyce Wimpfheimer ..... Westfield, NJ

## Forestry

### *Candidates for Degree December 19, 1990*

Michael Vernon Campbell ..... Woodbridge, VA  
Sung-Min Cho ..... Seoul, Korea  
Jeffrey Kevin Donahue ..... Evansville, IN  
Timothy Paul Stewart ..... Raleigh

## Genetics

### *Degree Conferred August 7, 1990*

Tina Ruth Logsdon ..... Cary

## Horticultural Science

### *Degree Conferred August 7, 1990*

Joseph Michael Kemble ..... Pine Hill, NJ

### *Candidates for Degree December 19, 1990*

Rachelle Allison Fong ..... Sacramento, CA  
Sharon Rebecca Funderburk ..... Monroe

## Industrial Engineering

### *Degrees Conferred August 7, 1990*

Nathan Kevin Howie ..... Fayetteville  
Rohinton Minoo Karanjia ..... Bombay, India  
Brian Kent Spiro ..... Raleigh

### *Candidates for Degree December 19, 1990*

Steven Douglas Hepler ..... Lewisville  
Vee Chong Lee ..... Melaka, Malaysia  
Jhong Sik Oh ..... Seoul, Korea  
Michael David Lush Walsh ..... Goldsboro  
Sadras Anandavel Senthilvel ..... Madras, India

## Management

### *Degrees Conferred August 7, 1990*

Alan Leonard Crowle ..... Raleigh  
Scott Tran Gordley ..... Greensboro  
Marwan Salah Juma ..... Amman, Jordan  
Elzbieta Maria McElroy ..... Warsaw, Poland  
Linda Jeneal Melvin ..... Raleigh

### *Candidates for Degree December 19, 1990*

Abdelrahman Kahsai Abdalla ..... Asmara, Ethiopia  
Bee Leng Choo ..... Lincoln, NE  
Margaret Moss Cooke ..... Raleigh  
Melissa Cox ..... Cincinnati, OH  
Yeou-Lin Ho ..... Taipei, Taiwan, Republic of China  
Ou-Yang Chieh-Chih Jan ..... Taipei, Taiwan, Republic of China  
Phani Rani Maddali ..... Vijayawada, India  
Michael Wayne Martin ..... Apex  
Brian John Saylor ..... Raleigh  
Timothy Gene Sproles ..... Dante, VA  
Wei-Yiong Wan ..... Denpasar, Indonesia  
Handikin Wiryaman Wong ..... Bogor, Indonesia  
Qian Zhang ..... Beijing, People's Republic of China

## Marine, Earth and Atmospheric Sciences

### *Degrees Conferred August 7, 1990*

Mark John Burzinski ..... Sheboygan, WI  
Steven Rice Chiswell ..... Derwood, MD  
Ross Eric Elliott ..... Scotia, NY  
George Jeffrey Gower ..... Raleigh  
William Lewis Schmithorst, Jr. .... Raleigh  
Kenneth Steven Smith ..... Howell, NJ

**Candidates for Degree December 19, 1990**

Deugsoo Kim .....	Seoul, Korea
Zheng Li .....	Beijing, People's Republic of China
Anuradha B. Murthy .....	Raleigh
John Thomas Roth .....	Golden Valley, MN

**Materials Science and Engineering**

**Degrees Conferred August 7, 1990**

William Joseph Dauksher .....	Point Lookout, NY
Katherine Dodds Stonnington .....	Reston, VA
Fang Zhang .....	Beijing, People's Republic of China

**Candidates for Degree December 19, 1990**

Michael Tristan Andreas .....	Charlotte
Wei Gu .....	Beijing, People's Republic of China
Mary Longo .....	Dalton, MA
Giuseppe Matera .....	Rome, Italy

**Mathematics**

**Degree Conferred August 7, 1990**

Arthur Groves Moore .....	Raleigh
---------------------------	---------

**Mathematics (Applied)**

**Degrees Conferred August 7, 1990**

Gregor Anthony Hoghe .....	Albany, NY
Elizabeth Sherrod Jones .....	Raleigh
Wyatt Alexander Mangum .....	Richmond, VA
Mary Beth McDaniel .....	Cary
Neil Phillip Sigmon .....	Newton

**Candidates for Degree December 19, 1990**

Susan Yancey Dresser .....	Rocky Mount
Jun Ren .....	Beijing, People's Republic of China

**Mechanical Engineering**

**Degrees Conferred August 7, 1990**

Stephen Bryan Austin .....	Garner
Her Chang Ay .....	Taoyun, Taiwan, Republic of China
Joseph William Hough .....	Washington, DC
Jae Yung Kim .....	Greensboro
Byron Franklin Knight .....	Tallahassee, FL
Louis Paul Oligeo .....	Louisville, KY
Robert Norman Sharpe III .....	Greensboro

**Candidates for Degree December 19, 1990**

Shounak Mahhusudan Athavale .....	Pune, India
Eric Geoffrey Blough .....	Fayetteville
Chih-Chun Cheng .....	Nantou, Taiwan, Republic of China
Douglas Albert Hodgson .....	Cary
Charles Robert Lewis .....	Statesville
Ellen Frances West .....	Cary
Joseph DeWitt Regan .....	Raleigh
William Earl Russell II .....	Swansboro
Robert Gerard Sember .....	Ulster Park, NY

## **Microbiology**

### ***Degrees Conferred August 7, 1990***

Shermalyn Rebecca Greene .....	Efland
Kenneth Mark Wiencek .....	Winston-Salem
Karen Motsinger Young .....	Lexington

### ***Candidates for Degree December 19, 1990***

Seh-Ching Lin .....	Taichung, Taiwan, Republic of China
Sheela Irene MacDougal .....	Port Jefferson, NY

## **Nuclear Engineering**

### ***Candidate for Degree December 19, 1990***

Ala Fayez Al-Zaben .....	Haifa, Palestine
--------------------------	------------------

## **Nutrition**

### ***Candidate for Degree December 19, 1990***

Silvia Elena Buntinx .....	Mexico City, Mexico
----------------------------	---------------------

## **Operations Research**

### ***Degrees Conferred August 7, 1990***

Matthew John Beattie .....	Rockville, MD
Alan Richard Chappell .....	Newport News, VA

## **Physics**

### ***Degrees Conferred August 7, 1990***

Claes Hakan Bjorkman .....	Stockholm, Sweden
Steven Mark Kolins .....	Steven's Point, WI

### ***Candidates for Degree December 19, 1990***

Raymond Patrick Burns .....	Cleveland, OH
Christopher Douglas Keith .....	Murphy
David Allen Moffett .....	Dallas

## **Physiology**

### ***Candidate for Degree December 19, 1990***

Donna Leanne Neldon-Ortiz .....	Bakersfield, CA
---------------------------------	-----------------

## **Plant Pathology**

### ***Candidates for Degree December 19, 1990***

Nenad Filajdic .....	Belgrade, Yugoslavia
Phuong Bui Nguyen .....	Blountville, TN

## **Psychology**

### ***Degrees Conferred August 7, 1990***

Thomas Ainsworth Jones .....	Williamsport, PA
Michael John Rothemich .....	Brookneal, VA

### ***Candidates for Degree December 19, 1990***

Lisanne Rae Shupe .....	Okemos, MI
Diane Ursone .....	Philadelphia, PA

## Rural Sociology

### *Candidates for Degree December 19, 1990*

Sara Reynolds Curran .....	Raleigh
Beth Lynn Davison .....	Lenoir
Jody Michelle Greene .....	Rockingham

## Science Education

### *Degree Conferred August 7, 1990*

Linda Rose Mueller .....	Endwell, NY
--------------------------	-------------

## Technical Communication

### *Degree Conferred August 7, 1990*

Norma Jean Terrell .....	Raleigh
--------------------------	---------

## Textile Chemistry

### *Degree Conferred August 7, 1990*

Tod Alan Madderra .....	Fort Walton Beach, FL
-------------------------	-----------------------

### *Candidate for Degree December 19, 1990*

Shohreh Parandoosh .....	Tehran, Iran
--------------------------	--------------

## Textiles

### *Degrees Conferred August 7, 1990*

Cheol-Jae Hong .....	Seoul, Korea
Sung Hoon Jeong .....	Seoul, Korea
Keith Fleming Morrison .....	Rockingham
Patricia Gause Terrien .....	Owego, NY

### *Candidates for Degree December 19, 1990*

Daniel Lee Cagle .....	Claremont
Larry Charles Dickinson .....	Hickory
Bhupesh Dua .....	New Delhi, India
Fiona Jane Leek .....	Crawley, Sussex, England
Candido Pichardo .....	San Pedro de Macoris, Dominican Republic
Martha Lambeth Poindexter .....	Raleigh

## Veterinary Medical Sciences

### *Candidate for Degree December 19, 1990*

Morella De Rosa .....	Caracas, Venezuela
-----------------------	--------------------

## Wildlife Biology

### *Candidate for Degree December 19, 1990*

Bret Daniel Wallingford .....	Reeders, PA
-------------------------------	-------------

## Wood and Paper Science

### *Candidate for Degree December 19, 1990*

Yong Sung Oh .....	Seoul, Korea
--------------------	--------------



**Zoology**

***Degrees Conferred August 7, 1990***

Carole Kathleen Copeyon ..... Wyoming, MI  
Renee Hodgden ..... Durham  
Jacqueline Jean Lape ..... Springfield, OH

***Candidate for Degree December 19, 1990***

Wanda Carol Williams ..... Durham

# Doctor of Education Degrees

## *Degrees Conferred August 7, 1990*

Susan Perry Gurganus, Curriculum and Instruction  
Raleigh, North Carolina

**Dissertation:** A Comparison of Special Education and Regular Education Teachers' Views on Performance Appraisal as Measured by National Performance and Evaluation Standards. (Under the direction of Cathy L. Crossland and Bettye MacPhail-Wilcox.)

Janice Styons Hall, Guidance and Personnel Services  
Raleigh, North Carolina

**Dissertation:** The Developmental Effects of a Peer Counseling Program for High School Students. (Under the direction of Edwin R. Gerler, Jr.)

## *Candidates for Degree December 19, 1990*

Henry Louis Johnson, Educational Administration and Supervision  
Raleigh, North Carolina

**Dissertation:** The Relationship among Track, Type of Courses and Number of Courses That Students Take in High School, Grade Point Average, the North Carolina Minimum Competency Test, and the Scholastic Aptitude Test. (Under the direction of Carl J. Dolce.)

John Howard McKnight, Educational Administration and Supervision  
Greenville, North Carolina

**Dissertation:** The Gradient Cohort-survival Method: A Refinement of the Ratio Forecasting Method for Determining School District Enrollments. (Under the direction of Raymond G. Taylor and Bettye MacPhail-Wilcox.)

Eleanor Janice Morgan, Guidance and Personnel Services  
Wilmington, North Carolina

**Dissertation:** The Relationship of Moral Development of Dyadic Communication Behaviors. (Under the direction of Debie D. Saidla and Norman A. Sprinthall.)

John Mark Pettitt, Adult and Community College Education  
Hillsborough, North Carolina

**Dissertation:** An Evaluation of the National 4-H Executive Development Institute. (Under the direction of Richard T. Liles and R. David Mustian.)

Felix Andrew Rowe, Jr., Adult and Community College Education  
Warsaw, North Carolina

**Dissertation:** The Relationship between Reading Ability and Academic Achievement for Associate Degree Students at a North Carolina Community College. (Under the direction of R. David Mustian.)

Donald Broughton Street, Adult and Community College Education  
Nashville, North Carolina

**Dissertation:** Relationships between Enrollment Changes and Program Marketing Methods in North Carolina Community Colleges, 1982 and 1986. (Under the direction of Benjamin E. Fountain and Ronald W. Shearon.)

Betty Lou Wooten, Adult and Community College Education  
Lumberton, North Carolina  
**Dissertation:** Determinants of the Comfort Level of African American Students in North Carolina Community Colleges. (Under the direction of Laura I. Rendon and Ronald W. Shearon.)

Janet Marie Young, Guidance and Personnel Services  
Raleigh, North Carolina  
**Dissertation:** Conceptual Level and Intellectual Growth of Students Enrolled in Freshman Seminar. (Under the direction of Norman A. Sprinthall.)

## Doctor of Philosophy Degrees

### *Degrees Conferred August 7, 1990*

Trip Alihamsyah, Biological and Agricultural Engineering  
Pamekasan, Indonesia  
**Dissertation:** Development and Evaluation of Techniques for On-the-go Soil Mechanical Impedance Measurements. (Under the direction of Ervin G. Humphries.)

Mahdy Ismeel AlJazzaf, Operations Research  
Kuwait, Kuwait  
**Dissertation:** Multiplier Methods with Partial Elimination of Constraints for Nonlinear Programming. (Under the direction of Joseph C. Dunn.)

Michael Aloysius Arnold, Horticultural Science  
Zanesville, Ohio  
**Dissertation:** Chilling Enhancement of New Root Growth in Species of *Malus*. (Under the direction of Eric Young.)

Walter John Bentley III, Biological and Agricultural Engineering  
Nashville, Tennessee  
**Dissertation:** Effects of Hydraulic Conductivity and Entrance Resistance on Drainage Processes. (Under the direction R. Wayne Skaggs.)

Christine Louise Bergmark, Soil Science  
Raleigh, North Carolina  
**Dissertation:** Differential Inhibition by Ferulic Acid on Net Nitrate, Ammonium and Potassium Uptake by *Zea mays* L. (Under the direction of William A. Jackson.)

Nicholas Biunno, Materials Science and Engineering  
Bellville, Florida  
**Dissertation:** Laser Processing of Nitrides and Carbides of Titanium and Semiconducting Thin Films. (Under the direction of Jagdish Narayan.)

Blair Buckley III, Horticultural Science  
New Madrid, Missouri  
**Dissertation:** Occurrence of Stem Blight Resistance in Blueberry. (Under the direction of James R. Ballington.)

Yung-Chang Frank Chin, Wood and Paper Science  
Taipei, Taiwan, Republic of China

**Dissertation:** Low Chlorine Bleaching of Bagasse Soda-AQ Pulp and Non-chlorine Bleaching of Kraft Southern Pine Pulp. (Under the direction of Hou-min Chang.)

Jae Jeong Cho, Fiber and Polymer Science  
Seoul, Korea

**Dissertation:** Rheological Behavior and Coagulation of Anisotropic Solutions of Cellulose in the  $\text{NH}_3/\text{NH}_4\text{SCN}$  System. (Under the direction of John A. Cuculo and Michael H. Theil.)

Chulsup Chung, Mechanical Engineering  
Seoul, Korea

**Dissertation:** Thermal Stress and Free-edge Stress Singularities in Bimaterial Structures. (Under the direction of Jeffrey W. Eischen.)

Vanla Dittapongpitch, Plant Pathology  
Khon Kaen, Thailand

**Dissertation:** Analysis of Plasmids in North Carolina Strains of Phytopathogenic Bacterium *Xanthomonas campestris* pathovar *vesicatoria* and the Role of Miniplasmids in Decreased Sensitivity to Copper and Streptomycin Sulfate. (Under the direction of Jeng-sheng Huang and David F. Ritchie.)

William Wesley Edmonson, Electrical Engineering  
Detroit, Michigan

**Dissertation:** Stochastic State Space Modeling from Canonical Correlation Analysis. (Under the direction of Winsor E. Alexander.)

Johari Bin Endan, Biological and Agricultural Engineering  
Kluang, Malaysia

**Dissertation:** Simulation of Corn Earworm Damage in PEANUT. (Under the direction of James H. Young.)

Marisa Rezenda Fontes, Soil Science  
Vicoso, Brazil

**Dissertation:** Interactions of Goethite and Humic Acid in Some Oxisols from Brazil. (Under the direction of Sterling B. Weed.)

Audrey Lynn Goodell, Biochemistry  
Altoona, Pennsylvania

**Dissertation:** Investigation of the Possible Role of Sulfhydryl Oxidase Activity in the Assembly of Immunoglobulin M. (Under the direction of H. Robert Horton.)

Jun Cheol Han, Mathematics  
Pusan, Korea

**Dissertation:** Involutions in Left Artinian Rings. (Under the direction of Kwangil Koh.)

Harish Pura Hiriyannaiah, Electrical Engineering  
Bangalore, India

**Dissertation:** Signal Reconstruction Using Mean Field Annealing. (Under the direction of Sarah A. Rajala and Wesley E. Snyder.)

Brinton Alden Hopkins, Nutrition  
Lewes, Delaware

**Dissertation:** Effect of Intraperitoneal Infusion of L-leucine, L-isoleucine, L-valine and L-arginine on Alleviation of Milk Fat Depression in Early Lactation Holstein Dairy Cows. (Under the direction of Allen H. Rakes.)

James Richard Hunter, Chemical Engineering  
Greenville, South Carolina  
**Dissertation:** Radiotracer Studies of Protein Adsorption at the Air/Water Interface. (Under the direction of Ruben G. Carbonell and Peter K. Kilpatrick.)

Douglas James, Applied Mathematics  
Colorado Springs, Colorado  
**Dissertation:** Conjugate Gradient Methods for Constrained Least Squares Problems. (Under the direction of Carl D. Meyer and Robert J. Plemmons.)

Leon Stacy Jernigan, Jr., Botany  
Garner, North Carolina  
**Dissertation:** Factors Influencing the Distributional Patterns of *Juncus roemerianus* in North Carolina Salt Marshes. (Under the direction of Ernest D. Seneca.)

Sivand Lakmazaheri, Civil Engineering  
Raleigh, North Carolina  
**Dissertation:** A Study on the Constraint Logic Approach for Structural Design Automation. (Under the direction of Ajaya K. Gupta and William J. Rasdorf.)

Stephen Chris Landers, Zoology  
Norfolk, Nebraska  
**Dissertation:** The Ultrastructure and Histochemistry of Cyst Formation in the Apostome Ciliate *Hyalophysa chattoni*. (Under the direction of Phyllis C. Bradbury.)

Bih-Hwang Lee, Computer Engineering  
Taipei, Taiwan, Republic of China  
**Dissertation:** Performance Analysis of the Finite Buffer Systems. (Under the direction of Arne A. Nilsson.)

Clinton Beauregard Lee, Electrical Engineering  
Farmville, Virginia  
**Dissertation:** Electrical Properties and Devices of Laser Deposited High-T Superconducting Thin Films. (Under the direction of Jagdish Narayan and Jimmie J. Wortman.)

Wei Li, Fiber and Polymer Science  
Shanghai, People's Republic of China  
**Dissertation:** On the Structural Mechanics of 3-D Braided Preforms for Composites. (Under the direction of Aly Ely E1-Shiekh.)

Stephen Frank Mader, Forestry  
New York, New York  
**Dissertation:** Recovery of Ecosystem Functions and Plant Community Structure by Tupelo—Cypress Wetland Following Timber Harvesting. (Under the direction of Russ Lea.)

Patti Murphy Manning, Psychology  
Raleigh, North Carolina  
**Dissertation:** The Relationship of Self-concept, Sex-role Orientation and Locus of Control between Female Athletes and Non-athletes with Further Investigation of Birth Order, Commitment and Influencing Agent among the Athletes. (Under the direction of Patricia F. Horan.)

- Youssef Mohammad-zadeh, Mechanical Engineering  
Exton, Pennsylvania  
**Dissertation:** Experimental and Mathematical Analysis of Three Ground Coupled Heat Exchangers. (Under the direction of Richard R. Johnson.)
- Kay Marie Moneyhun, Mathematics  
Oak Ridge, Tennessee  
**Dissertation:** Isoclinisms in Lie Algebras. (Under the direction of Ernest L. Stitzinger.)
- Carl Edwin Motsenbocker, Horticultural Science  
Cary, North Carolina  
**Dissertation:** The Identification and Basis of Herbicide Tolerance in Sweetpotato Germplasm. (Under the direction of Thomas J. Monaco.)
- Kassem Moustafa Mourad, Mechanical Engineering  
Cairo, Egypt  
**Dissertation:** The Application of the Boundary Element Method to Predict the Response of a Differential Operator Model for a Coupled Viscoelastic-Acoustic System. (Under the direction of Larry H. Royster.)
- Nancy Jeanne O'Connor, Marine, Earth and Atmospheric Sciences  
Raleigh, North Carolina  
**Dissertation:** Larval Settlement and Juvenile Recruitment in Fiddler Crab Populations. (Under the direction of Thomas G. Wolcott.)
- Kyoung Wan Park, Physics  
Seoul, Korea  
**Dissertation:** A Study of Surface Interaction with Native Oxides and Insular Deposition on GaAs. (Under the direction of Gerald Lucovsky.)
- Carolyn Antoinette Prince, Horticultural Science  
Bennettsville, South Carolina  
**Dissertation:** Studies on the Growth Responses of Bell Pepper to N Rate and N:K Ratios. (Under the direction of Douglas C. Sanders.)
- James Wesley Rideout, Soil Science  
Stony Creek, Virginia  
**Dissertation:** Mechanisms and Management of Premature Flowering in Flue-cured Tobacco. (Under the direction of Gordon S. Miner and C. David Raper.)
- Marcos Antonio Eduardo Santana, Wood and Paper Science  
Brasilia, Brazil  
**Dissertation:** Separation of Glucuronic Acid from Sweetgum (*Liquidambar styraciflua* L.) Wood Prehydrolyzates. (Under the direction of Irving S. Goldstein.)
- Randall James Schadt, Physics  
Kearney, Nebraska  
**Dissertation:** An Investigation of Microstructural Changes in Acrylate-type Copolymers Due to Photolytic/Acid Pollutant Degradation Using <sup>13</sup>C CP/MAS NMR. (Under the direction of Raymond E. Fornes and Richard D. Gilbert.)

James Davidson Seabolt, Economics  
Greensboro, North Carolina  
**Dissertation:** Regulation of U. S. Local Distribution Company to End-user Retail Natural Gas Sales: Are All Consumer Classes Treated Equally? (Under the direction of Edward W. Erickson and Walter N. Thurman.)

Michael Anthony Shirley, Marine, Earth and Atmospheric Sciences  
Providence, Rhode Island  
**Dissertation:** Habitat Selection by Molting and Mating Blue Crabs, *Callinectes sapidus* (Rathbun). (Under the direction of Thomas G. Wolcott.)

Cheryl Marie Stroud, Veterinary Medical Sciences  
Apex, North Carolina  
**Dissertation:** Steroid Modulation of Gonadotrophin Releasing Hormone—induced Luteinizing Hormone Release in Diestrous and Anestrous Pigs: In vitro Characterization. (Under the direction of Gary D. Dial and Edouard V. DeBuysscher.)

Thomas Craig Williams, Psychology  
Haw River, North Carolina  
**Dissertation:** The Effect of Trainee Attributes on Rater Training Effectiveness and the Relationship between Manager-Supervisor Rating Error. (Under the direction of Paul W. Thayer.)

James Lee Willit, Chemistry  
Glen Ellyn, Illinois  
**Dissertation:** Redox Kinetics and Thermodynamics of Strongly Absorbed Cytochrome c on Tin Oxide Electrodes. (Under the direction of Edmond F. Bowden and Dennis Wertz.)

Mark Edward Zarnstorff, Crop Science  
Raleigh, North Carolina  
**Dissertation:** Physio-ecological Effects of Cultural and Pesticide Management on No-till Establishment of Switchgrass and Seed Dormancy. (Under the direction of Douglas S. Chamblee.)

#### **Candidates for Degree December 19, 1990**

Bruce Louis Ahrendsen, Economics  
Olin, Iowa  
**Dissertation:** Optimal Capital Structure for the Proprietary Firm: An Empirical Analysis of North Carolina Dairy Farms. (Under the direction of Robert N. Collender and Richard K. Perrin.)

Naazar Ali, Crop Science  
Faisalabad, Pakistan  
**Dissertation:** Inheritance of Early Maturity and Dormancy in Peanut (*Arachis hypogaea* L.). (Under the direction of Johnny C. Wynne.)

Khalid Mohamed Al-Otaibi, Nuclear Engineering  
Jeddah, Saudi Arabia  
**Dissertation:** Mechanical Anisotropy, Strain Aging and Deformation Mechanisms in Zirconium and Zirconium-Niobium Alloys. (Under the direction of K. Linga Murty.)

David Ray Anderson, Botany  
Raleigh, North Carolina  
**Dissertation:** Procedures for Improved Somatic Embryo Maturation in Norway Spruce (*Picea abies*). (Under the direction of Ralph C. Mott.)

Miguel Angel Ara, Soil Science  
Pucallpa, Peru

**Dissertation:** Nitrogen Contribution of the Legume to Grazed Pastures in the Humid Tropics. (Under the direction of Pedro A. Sanchez.)

John Robert Ashburn, Physics  
Olin, Iowa

**Dissertation:** Measurements of H ( $n=3$ ) Density Matrices for 20 to 150 keV H<sup>+</sup> on He. (Under the direction of John S. Risley.)

M. K. Augustine, Mathematics  
Ramapurang, India

**Dissertation:** Monoids of Lie Type and Their Congruences. (Under the direction of Mohan S. Putcha.)

Claudio Emilio Balocchi, Forestry  
Valdivia, Chile

**Dissertation:** Age Trends of Genetic Parameters and Selection Efficiency for Loblolly Pine (*Pinus taeda* L.). (Under the direction of Floyd E. Bridgwater and Bruce J. Zobel.)

Elsworth Douglas Beach, Economics  
Houston, Texas

**Dissertation:** A Hedonic Analysis of Herbicides: Does Safety Matter. (Under the direction of Gerald A. Carlson.)

Kurt Evan Borg, Physiology  
Minden, Nebraska

**Dissertation:** Endocrine and Behavioral Responses of the Bull, Boar and Ram at the Time of Mating. (Under the direction of Kenneth L. Esbenshade.)

Michael Doyle Boyette, Biological & Agricultural Engineering  
Wendell, North Carolina

**Dissertation:** Increasing the Energy Efficiency of Icemaking by Continuous Solidification and Hydraulic Harvesting. (Under the direction of Roger P. Rohrbach.)

Gary Wayne Brester, Economics  
Laurel, Montana

**Dissertation:** Effects of Measurement Error in Disappearance Data on Estimated Demand Elasticities for Meat. (Under the direction of Michael K. Wohlgenant.)

Holly Marie Brown-Borg, Physiology  
Omaha, Nebraska

**Dissertation:** Influence of the Sympathetic Nervous System on Immune Responses in the Chick and Isolation of an Embryonic Nerve Growth—promoting Protein. (Under the direction of Frank W. Edens.)

Ann Barbara Carlson, Aerospace Engineering  
Yorktown, Virginia

**Dissertation:** Direct Simulation Monte Carlo with Ionization and Radiation. (Under the direction of Hassan A. Hassan.)

Glenda Stephens Carter, Science Education  
Raleigh, North Carolina

**Dissertation:** The Effect of External Verbalization by Fifth Graders in the Development of Lever Concepts. (Under the direction of Norman D. Anderson and John C. Park.)



Mark Edwin Casada, Biological and Agricultural Engineering  
Lexington, Kentucky  
**Dissertation:** Simulation of Heat Transfer and Moisture Migration during Transportation of Shelled Peanuts. (Under the direction of James H. Young.)

Chao-Ren Chang, Electrical Engineering  
Taipei, Taiwan, Republic of China  
**Dissertation:** Computer-aided Analysis of Nonlinear Microwave Analog Circuits Using Frequency-domain Spectral Balance. (Under the direction of Michael B. Steer.)

Yeon-Pun Chang, Mechanical Engineering  
Taipei, Taiwan, Republic of China  
**Dissertation:** Single and Collective Bubble Dynamics in the Cavitating Flow over an Ogive Body. (Under the direction of James C. Mulligan.)

Yong Jun Cho, Civil Engineering  
Seoul, Korea  
**Dissertation:** Statistical Properties of Nonlinear Random Waves. (Under the direction of Chi C. Tung.)

Joosang Chung, Forestry  
Seoul, Korea  
**Dissertation:** Neural Network Applications to Forest Stand Stocking Control. (Under the direction of Joseph P. Roise.)

John Brittain Cooper, Chemistry  
Charleston, South Carolina  
**Dissertation:** Spectroelectrochemical Studies of Ruthenium Diimine Complexes. (Under the direction of Dennis W. Wertz.)

Karen Lynn Core, Mechanical Engineering  
Raleigh, North Carolina  
**Dissertation:** Heat Transfer and Population Characteristics in Multiphase Dispersed Media with Phase Change. (Under the direction of James C. Mulligan.)

Eleanor Hawkins Cwirko, Chemical Engineering  
Catonsville, Maryland  
**Dissertation:** Electrolyte Transport in Charged Membranes. (Under the direction of Rubin G. Carbonell.)

Orlando Monteiro Da Silva, Economics  
Viçosa, Brazil  
**Dissertation:** The International Market for Frozen Concentrated Orange Juice—Prospects for Brazil. (Under the direction of John C. Dutton, Jr.)

Donald Lee Deal, Jr., Horticultural Science  
Raleigh, North Carolina  
**Dissertation:** High Night Temperature Tolerance Zones. Modeling, Predicting and Investigating the Effects of High Night Temperatures on Ornamental Plant Adaptation. (Under the direction of August A. DeHertogh and James C. Raulston.)

Douglas James Doohan, Horticultural Science  
Truro, Nova Scotia, Canada

**Dissertation:** Field Violet (*Viola arvensis* Murr.) Biology, Management in Strawberries (*Fragaria x ananassa* Duchesne) and Basis for Herbicide Tolerance. (Under the direction of Thomas J. Monaco and Thomas J. Sheets.)

William Stephen Dvorak, Forestry  
Raleigh, North Carolina

**Dissertation:** Genetic Variation in Root Morphology of Four Mexican Pine Species. (Under the direction of Charles B. Davey.)

Randi Wilfert Eckel, Entomology  
Wilmington, Delaware

**Dissertation:** Epidemiological Relationships between Aphids and Tobacco Etch Virus in Tobacco. (Under the direction of Emmett P. Lampert and George G. Kennedy.)

Nagwa Mahmoud ElShaik, Mechanical Engineering  
Pullman, Washington

**Dissertation:** Direct Contact Heat Transfer to a Dispersed Droplet with Change of Phase. (Under the direction of James C. Mulligan.)

José Luzardo Estrade-Lopez, Animal Science  
Bogota, Colombia

**Dissertation:** Effect of Insulin-like Growth Factor-1 on Protein Synthesis in Porcine Embryonic Discs Cultured in Vitro. (Under the direction of Robert M. Petters.)

Richard Lee Gaffney, Jr., Aerospace Engineering  
Fayetteville, North Carolina

**Dissertation:** An Abbreviated Reynolds Stress Turbulence Model for Airfoil Flows. (Under the direction of Hassan A. Hassan.)

Amotz Joseph Geshury, Fiber and Polymer Science  
Ramat-Gan, Israel

**Dissertation:** Effect of the Simultaneous Application of Heat and Dynamic Mechanical Forces on the Thermal Protective Performance of Aramid Fabrics. (Under the direction of Roger L. Barker and Wallace P. Behnke.)

Avinash Laxman Ghirnikar, Electrical Engineering  
Bombay, India

**Dissertation:** An Inverse QR Recursive Least Squares Algorithm for Adaptive Filtering. (Under the direction of S. Thomas Alexander.)

Dan Owen Harris, Electrical Engineering  
Madisonville, Kentucky

**Dissertation:** Acousto-Optic Photonic Switching. (Under the direction of Anthony Vander Lugt.)

Majid Mahmoud Hashemi, Electrical Engineering  
Tehran, Iran

**Dissertation:** Fabrication, Characterization and Modeling of Non-alloyed FET Structures by ALE. (Under the direction of Salah M. Bedair.)

Wei-Hwa Her, Chemical Engineering

Yungho, Taiwan, Republic of China

**Dissertation:** Platinized Nafion Membrane: Electrode Structure, Fabrication and Application in Gas Phase Hydrocarbon Hydrogenation and Oxidation Reactions. (Under the direction of Peter S. Fedkiw.)

George Lawrence Hodge, Industrial Engineering

Raleigh, North Carolina

**Dissertation:** Decision Models for Evaluating Apparel Manufacturing Work Cells. (Under the direction of John R. Canada.)

Robert Grove Hollingsworth, Entomology

Raleigh, North Carolina

**Dissertation:** Influence of the Balsam Woolly Adelgid (Homoptera: Adelgidae) on Fraser Fir Growth, Bark Structure and Abnormal Wood Production. (Under the direction of Fred P. Hain.)

Roger Michael Hoy, Biological and Agricultural Engineering

Suffield, Connecticut

**Dissertation:** Design of a Near Infrared Interferometer and the Direct Use of Interferograms for Chemical Analysis. (Under the direction of W. Fred McClure.)

Gwo-Ming Jan, Operations Research

Taipei, Taiwan, Republic of China

**Dissertation:** A New Variant of the Primal Affine Scaling Algorithm for Linear Programs. (Under the direction of Shu-Cherng Fang.)

Jongwhan Jang, Electrical Engineering

Seoul, Korea

**Dissertation:** Texture Segmentation-based Image Coder Incorporating Properties of the Human Visual System. (Under the direction of Sarah A. Rajala.)

Keith John Jones, Plant Pathology

Tewkesbury, England

**Dissertation:** Components of Resistance in *Nicotiana tabacum* to *Phytophthora parasitica* var. *nicotianae*. (Under the direction of Larry F. Grand and H. David Shew.)

Magdy Abdelwahab Kassem, Materials Science and Engineering

Kalubia, Egypt

**Dissertation:** Effect of Interstitial Elements on Phase Stability of Selected Intermetallics. (Under the direction of Carl C. Koch.)

Chang Tien Kiang, Fiber and Polymer Science

Sao Paulo, Brazil

**Dissertation:** The Influence of Polymer Characteristics and Melt Spinning Conditions on the Production of Fine Denier Poly(ethylene Terephthalate) Fibers. (Under the direction of John A. Cuculo.)

Gary Jay Kirkpatrick, Marine, Earth and Atmospheric Science

Bradfordwoods, Pennsylvania

**Dissertation:** An Underwater Instrument to Measure Photosynthetic Response of Phytoplankton Exposed to Natural Light Fluctuation. (Under the direction of Daniel Kamykowski.)

Gregorio Leandro Madrigal, Plant Pathology

Alajuela, Costa Rica

**Dissertation:** Survival of *Pseudomonas solanacearum* in Soil, Rotation Crops and Debris and Penetration and Infection of Susceptible and Resistant Tobacco Cultivars. (Under the direction of Eddie Echandi and Robert G. Upehurch.)

Heuisuck Lee, Nutrition

Seoul, Korea

**Dissertation:** Nutritional Evaluation of Overcooked Soybean Meal in Poultry. (Under the direction of Jim D. Garlich.)

Jung-Hee Lee, Electrical Engineering

Tae Gu, Korea

**Dissertation:** Carrier Collection and Laser Properties in Monolayer-thick Quantum-well Heterostructures Grown by Molecular Beam Epitaxy. (Under the direction of Robert M. Kolbas.)

Yong Hee Lee, Materials Science and Engineering

Daegu, Korea

**Dissertation:** Bias and Substrate Effects on the Vapor Phase Growth of Diamond Thin Films. (Under the direction of Klaus J. Bachmann and Jeffrey T. Glass.)

Vincent Pernel Lewis, Zoology

Lancaster, South Carolina

**Dissertation:** An Evaluation of the Diet of Atlantic Menhaden, (*Brevoortia tyrannus*), and Its Nutritional Value, with Particular Emphasis on the Contribution of Amorphous Detritus. (Under the direction of John M. Miller and David S. Peters.)

Chon-Yie Lin, Fiber and Polymer Science

Kaohsiung, Taiwan, Republic of China

**Dissertation:** Poly(ethylene Terephthalate) Melt Spinning Via Controlled Threadline Dynamics. (Under the direction of John A. Cuculo and Paul A. Tucker.)

Deborah Sue Loer, Genetics

Cottage Grove, Minnesota

**Dissertation:** Chromatin Structure and Gene Expression in Plants. (Under the direction of Steven L. Spiker and William F. Thompson.)

Shaun Timothy Love, Computer Science

Durham, North Carolina

**Dissertation:** Nonholographic, Autostereoscopic, Nonplanar Display of Computer Generated Images. (Under the direction of David F. McAllister.)

Eric Meyer Martin, Chemistry

Raleigh, North Carolina

**Dissertation:** Synthesis and Characterization of Late Transition Metal Complexes of  $[N_2S_2]^{2-}$  Ligand Systems. (Under the direction of Robert D. Bereman.)

LeRoy Brown Martin III, Chemistry

Raleigh, North Carolina

**Dissertation:** Mass Spectrometry of Organometallics and Platinated Oligonucleotides. (Under the direction of Anton F. Schreiner and Richard B. van Breeman.)

- Thomas Hanson Martin, Zoology  
Dickerson County, Virginia  
**Dissertation:** Direct and Indirect Effects of Fish Predation on Freshwater Littoral Benthos. (Under the direction of Larry B. Crowder.)
- Gerald Ray McCrain, Forestry  
Asheville, North Carolina  
**Dissertation:** Habitat Evaluation Procedures (HEP) Applied to Mitigation Banking in North Carolina. (Under the direction of Arthur W. Cooper and David A. Adams.)
- Brian Thomas McDermott, Materials Science and Engineering  
Stem, North Carolina  
**Dissertation:** Application of Atomic Layer Epitaxy to the Growth of III-V Compounds. (Under the direction of Salah M. Bedair and Nadia A. ElMasry.)
- Stanley Anderson McIntosh, Fiber and Polymer Science  
Mount Holly, North Carolina  
**Dissertation:** Structure and Photolytic Properties of Azo Dyes. (Under the direction of Harold S. Freeman.)
- Kristen Louise Meier, Statistics  
Millersville, Pennsylvania  
**Dissertation:** Estimating Rate Equations Using Nonparametric Methods. (Under the direction of Douglas W. Nychka.)
- Dennis Lee Mengel, Soil Science  
York, Pennsylvania  
**Dissertation:** Site Preparation Techniques to Improve Soil Infiltration, Water-holding Capacity and Bulk Density, and Shoot Growth of *Bombacopsis quinata* in Colombian Plantations on Vertic Soils. (Under the direction of Charles B. Davey.)
- Thomas James Miller, Zoology  
London, England  
**Dissertation:** Body Size and the Ontogeny of Feeding in Fishes. (Under the direction of Larry B. Crowder.)
- Roma Ballabh Mohanti, Nuclear Engineering  
New Delhi, India  
**Dissertation:** Time Dependent Numerical Simulation of Nonideal Plasmas in Ablation Controlled Arcs. (Under the direction of John G. Gilligan.)
- Paul David Orkwis, Aerospace Engineering  
Raleigh, North Carolina  
**Dissertation:** A Newton's Method Solver for the Two-dimensional and Axisymmetric Navier-Stokes Equations. (Under the direction of D. Scott McRae.)
- Balasubramania Panchapakesan, Wood and Paper Science  
Madras, India  
**Dissertation:** Photoinduced Reactions of Lignin and Lignin Degradation Products: Photo-oxidation of Chlorinated Organics in Bleach Plant Effluents; Photoinduced Reactions of Lignin in High Yield Pulp. (Under the direction of Josef S. Gratzl.)

James Campbell Posey, Jr., Fiber and Polymer Science  
Greensboro, North Carolina

**Dissertation:** An Approach to the Design of Lightfast Disperse Dyes.  
(Under the direction of Harold S. Freeman.)

Jinshu Qiu, Soil Science  
Ninghai, People's Republic of China

**Dissertation:** Effects of Phosphorus Deficiency on Carbon and Nitrogen  
Assimilation and Utilization in Whole Soybean Plants. (Under the direc-  
tion of Daniel W. Israel.)

Dorcas June Robb, Psychology  
Raleigh, North Carolina

**Dissertation:** Social Support in Incarcerated Females. (Under the direc-  
tion of Denis O. Gray and James E. R. Luginbuhl.)

David Clifford Robinson, Civil Engineering  
Raleigh, North Carolina

**Dissertation:** Development of a Level of Service Indicator for Ferry Ser-  
vices. (Under the direction of Paul D. Cribbins.)

Tong-Min Sa, Soil Science  
Seoul, Korea

**Dissertation:** Effects of Phosphorous Deficiency on Energy Status and  
Functioning of Soybean Nodules. (Under the direction of Daniel W. Israel.)

Carole Haemmerle Saravitz, Horticultural Science  
Durham, North Carolina

**Dissertation:** In vitro Propagation of Fraser Fir (*Abies fraseri*) and Virg-  
inia Pine (*Pinus virginiana*) from Embryonic Explants. (Under the direc-  
tion of Henry V. Amerson and Frank A. Blazich.)

Philip James Schoeneberger, Soil Science  
Perham, Minnesota

**Dissertation:** Physical Properties and Water Movement through a Soil and  
Saprolite at Different Geomorphic Positions. (Under the direction of Aziz  
Amoozegar and Stanley W. Buol.)

Zlatko Sitar, Materials Science and Engineering  
Ljubljana, Yugoslavia

**Dissertation:** Growth and Characterization of III-V Nitride Thin Films.  
(Under the direction of Robert F. Davis.)

John Cooke Smeltzer, Chemical Engineering  
Silver Spring, Maryland

**Dissertation:** Periodic Cell-voltage Control of a Parallel-plate Reactor:  
Metal Deposit Distribution and Selectivity Enhancement for the Reduction  
of Nitrobenzene. (Under the direction of Peter S. Fedkiw.)

Craig Allan Smith, Physiology  
Shell Lake, Wisconsin

**Dissertation:** Inhibitory Effects of Estradiol-17B on Luteinizing Hormone  
Release in Female Swine. (Under the direction of Glen W. Almond and  
Kenneth L. Esbenshade.)

Stephen Allen Smith, Veterinary Medical Sciences

Marietta, Ohio

**Dissertation:** The Immune Response of Blue Tilapia, *Oreochromis aureus*, to the Parasitic Dinoflagellate, *Amyloodinium ocellatum*. (Under the direction of Edward J. Noga and Michael G. Levy.)

Lawrence Steven Solomon, Sociology

Charlotte, North Carolina

**Dissertation:** Manufactured Housing and the Elderly: Residential Satisfaction, the Sense of Community, Social Integration and Psychological Adjustment. (Under the direction of Randall J. Thomson.)

Mark Gordon Stinson, Electrical Engineering

St. Louis, Missouri

**Dissertation:** The Influence of Ion Radiation on Perimeter Degradation in Thin-oxide Devices. (Under the direction of Carlton M. Osburn.)

Yunbao Sun, Wood and Paper Science

Nanjing, People's Republic of China

**Dissertation:** Dechlorination and Decolorization of Chlorolignins in Bleach Plant Effluents by Ultrafiltration, Oxygen Oxidation and Biological Treatment Processes. (Under the direction of Hou-min Chang and Thomas W. Joyce.)

Eiji Suzuki, Chemical Engineering

Tokyo, Japan

**Dissertation:** Kinetics of Monoclonal Antibody Production. (Under the direction of David F. Ollis.)

Andrew VanSickle Talmadge, Applied Mathematics

Jonesboro, Arkansas

**Dissertation:** A Geometric Formulation of the Higgs Mechanism via Internal Metric Fields. (Under the direction of Ronald O. Fulp.)

William Jennings Terrell, Mathematics

Raleigh, North Carolina

**Dissertation:** Observability and External Description of Linear Time Varying Singular Control Systems. (Under the direction of Stephen L. Campbell.)

Kim Elizabeth Tripp, Horticultural Science

Huntington, New York

**Dissertation:** Physiological Aspects of Tomato Foliar Deformation at Elevated CO<sub>2</sub> Concentration. (Under the direction of Mary M. Peet and David M. Pharr.)

Thomas Mitchell Vess, Chemistry

Raleigh, North Carolina

**Dissertation:** The Design and Applications of a Spectroelectrochemical Cell Using a Movable Electrode. (Under the direction of Dennis W. Wertz.)

Julia Lurita Whitworth, Horticultural Science

Lamont, Oklahoma

**Dissertation:** Changes in Carbohydrates and Carbon Dioxide Evolution throughout Winter Rest of Young Apple Trees. (Under the direction of Eric Young.)

Faye Mills Wilhite, Crop Science

Hyattsville, Maryland

**Dissertation:** Selection and Linkage Investigations in Maternally Derived Doubled Haploid Populations of Tobacco. (Under the direction of Earl A. Wernsman.)

Guangcai Xing, Materials Science and Engineering

Shandong, People's Republic of China

**Dissertation:** Growth and Characterization of ZnGeP<sub>2</sub>/GaP Heterostructures by MOCVD and ZnGeP<sub>2</sub> Bulk Single Crystals. (Under the direction of Klaus J. Bachmann and John J. Hren.)

Yanan Yu, Biomathematics

Hubei, People's Republic of China

**Dissertation:** A Leslie Model, Threshold Function and Uncertainty for Chemical Control of Corn Earworm. (Under the direction of Harvey J. Gold.)

Moosa Zand, Mechanical Engineering

Tehran, Iran

**Dissertation:** Thermal and Non-Newtonian Effects in Elastohydrodynamic Lubrication of Rolling-Sliding Contacts. (Under the direction of Richard R. Johnson.)



