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FRIDAY, DECEMBER SEVENTH

NINETEEN HUNDRED AND SIXTY-TWO

The  
Fall  
Commencement  
of  
Michigan  
State  
University

UNIVERSITY AUDITORIUM

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EAST LANSING

# The Fall Commencement of Michigan State University

## ACADEMIC COSTUME

The pageantry and color at commencement exercises reveal a record of academic achievement of the various individuals taking part in the exercises. The following brief description is given that the audience might more readily interpret such achievement.

In 1895, the Intercollegiate Commission, a group of leading American educators, met at Columbia University to draft a code which would serve to regulate the design of gowns and hoods indicating the various degrees as well as the colors to indicate the various faculties. This code has been adopted by most of the colleges and universities in America and its use has made identification of scholastic honors an immediate activity.

Three types of gowns are indicated by the code. Those worn by the bachelors are made of black worsted material and have long, pointed sleeves. Those worn by masters may be made either of black silk or black wool and have long, closed sleeves with the arc of a circle near the bottom. The arm goes through a slit, giving the appearance of short sleeves for the master's gown. Doctor's gowns are made of black silk and are faced with velvet. The sleeves are full, round and open with three bars of velvet on each sleeve. The velvet facing of bars on the sleeves may be black or the same color as the binding of the hood.

Hoods are made of material identical with the gown and are lined in the official academic

color of the institution conferring the degree. If the institution has more than one color, the chevron is used to introduce the second color. Colored velvet or velveteen binds the hoods and indicates the department or faculty to which the degree pertains.

Historical associations of color have been continued to signify the various faculties. Art and letters can be recognized by the white, taken from the traditional white fur trimming of the Oxford and Cambridge Bachelor of Arts hoods. Red, long traditional of the church, indicates theology. The royal purple of the King's court signifies law. The green of medicinal herbs immediately identifies a medical degree. Philosophy is signified by the color of wisdom and truth, blue. Because through research untold wealth has been released to the world, science is identified by golden yellow. Oxford pink indicates music and russet brown, the color of dress worn by ancient English foresters, indicates forestry.

The color of the velvet of the hood is distinctive of the subject to which the degree pertains. For example, the trimming for the degree of Master of Science in Agriculture should be maize, representing agriculture, rather than golden yellow, representing science.

At Michigan State University, it is customary to identify the bachelors graduating from the different departments of study by tassels of the official department color as established by the Intercollegiate Code.

COLLEGE OF AGRICULTURE . . . . .	Maize
Forest Products, Forestry, Packaging . . . . .	Russet
COLLEGE OF ARTS AND LETTERS . . . . .	White
Music . . . . .	Pink
Philosophy . . . . .	Navy Blue
COLLEGE OF BUSINESS . . . . .	Drab
COLLEGE OF COMMUNICATION ARTS . . . . .	Royal Blue
Journalism . . . . .	Crimson
Speech . . . . .	Silver Gray
COLLEGE OF EDUCATION . . . . .	Light Blue
COLLEGE OF ENGINEERING . . . . .	Orange
COLLEGE OF HOME ECONOMICS . . . . .	Maroon
COLLEGE OF NATURAL SCIENCE . . . . .	Golden Yellow
Nursing . . . . .	Apricot
COLLEGE OF SOCIAL SCIENCE . . . . .	Citron
Economics . . . . .	Copper
COLLEGE OF VETERINARY MEDICINE . . . . .	Dark Gray

# ORDER OF CEREMONIES

## PROCESSIONAL

ACADEMIC PROCESSIONAL . . . . . Williams  
MICHIGAN STATE UNIVERSITY BAND — PROFESSOR LEONARD FALCONE, *Director*

AMERICA . . . . . Smith

My country, 'tis of thee,  
Sweet land of liberty,  
Of thee I sing;  
Land where my fathers died;  
Land of the pilgrims' pride;  
From every mountain side  
Let freedom ring.

## INVOCATION

THE REVEREND EDWARD A. ROTH  
*Rector, All Saints' Episcopal Church*

## ADDRESS

SAMUEL MILLER BROWNELL, PH.D., ED.D., LL.D., PD.D.  
*Superintendent of Public Schools, Detroit*

## CONFERRING OF DEGREES

JOHN ALFRED HANNAH, D.AGR., LL.D., L.H.D., D.Sc.  
*President, Michigan State University*

ALMA MATER . . . . . Traynor

M.S.U., we love thy shadows	When from these scenes we wander
When twilight silence falls,	And twilight shadows fade,
Flushing deep and softly paling	Our mem'ry still will linger
O'er ivy covered halls.	Where light and shadows played.
Beneath the pines we'll gather	In the evening oft we'll gather
To give our faith so true,	And pledge our faith anew,
Sing our love for Alma Mater	Sing our love for Alma Mater
And thy praises, M.S.U.	And thy praises, M.S.U.

## BENEDICTION

THE REVEREND MR. ROTH

## RECESSIONAL

THE HOST OF YOUTH. . . . . Guenzel

The escorts for the procession are members of Mortar Board, an honor society for senior women.  
The audience is requested to remain seated while those in the procession are entering and leaving the auditorium.



## BOARD OF TRUSTEES

Michigan State University operates under the jurisdiction of a constitutional body known as the Board of Trustees. The six elected members serve six-year terms. Two are elected biennially from the state at large.

The President of the University is appointed by the Board and is by constitutional provision the presiding member of the body.

The Board likewise appoints a Secretary and a Treasurer. The State Superintendent of Public Instruction is an ex-officio member of the Board.

THE HONORABLE CONNOR D. SMITH, <i>Chairman</i>	Pinconning
THE HONORABLE C. ALLEN HARLAN	Detroit
THE HONORABLE WARREN M. HUFF	Plymouth
THE HONORABLE FRANK MERRIMAN	Deckerville
THE HONORABLE DON STEVENS	Okemos
THE HONORABLE JAN B. VANDERPLOEG	North Muskegon
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THE HONORABLE LYNN M. BARTLETT, <i>Ex Officio</i>	Lansing
JOHN A. HANNAH, <i>Ex Officio, President</i>	East Lansing
JACK BRESLIN, <i>Secretary</i>	East Lansing
PHILIP J. MAY, <i>Treasurer</i>	East Lansing

# MICHIGAN STATE UNIVERSITY

Michigan State University, one of the leading land-grant universities and the first agricultural college in America, strives for excellence in affording liberal and practical education for its students in a broad range of human endeavors.

MSU also serves people of the state, nation and world through its numerous research, extension and international programs.

Now in its 108th year, Michigan State University has grown from 3 buildings and 6 faculty members to 1 of the 10 largest universities in the nation. It has approximately 2,500 staff members engaged in teaching, research and public service, 422 buildings, and 4,250 acres of land, including 960 acres in the campus and housing area and 900 more in planned development.

Founded in 1855 to educate youth for the major occupation of that day—farming—Michigan State University has broadened its offerings as young people, preparing for other vocations, have sought the advantages of university training. Today, Michigan State University has 10 colleges—Agriculture, Arts and Letters, Business, Communication Arts, Education, Engineering, Home Economics, Natural Science, Social Science, Veterinary Medicine—and the School for Advanced Graduate Studies, and offers approximately 200 areas of specialization at the undergraduate level and 275 at the graduate level. This excludes the curriculum of the University College, which has been recognized as one of the most progressive ideas for higher education in the nation today, and the Honors College established in 1957 as a unique program designed for the superior student. All students finishing their freshman year with a “B plus” average, or attaining this average in their sophomore year, have the option of entering the Honors College.

Once a student is designated an Honors College scholar, all requirements for graduation from Michigan State (other than total number of hours) are waived. He is assigned a special adviser in his field of major interest and together they work out a program appropriate for the individual.

Through fast-growing research programs in all colleges and the Agricultural Experiment Station, Michigan State University is adding to mankind's store of fundamental knowledge and paving the way for development of new products. Matching and complementing this growth has been an equally rapid growth of the graduate program, which now has an enrollment exceeding 4,000.

Benefits of the University are brought to every county in Michigan by the Cooperative Extension Service and the Continuing Education Service. Their programs, both on campus and in local communities, provide many kinds of technical information and formal course work for hundreds of thousands of Michigan citizens.

Today, more than 25,000 students from Michigan and other states and from nations all over the world are attending the University at East Lansing—about 14,000 of whom are housed on the campus proper. With about 79 percent of these students coming from communities in every section of the state, Michigan State University is doing its part to fill the greatly increased demand of the younger generation for higher education.

In the agricultural, business and professional fields and research, Michigan State University has proved its worth to the people of the State of Michigan. Noted for its democratic and friendly spirit, the student body harmonizes with the University faculty to make Michigan State University one of the great educational institutions in America.

# COLLEGE OF AGRICULTURE

The candidates will be presented by DEAN THOMAS K. COWDEN

## DEGREE OF BACHELOR OF SCIENCE

Ronald George Bernhard	Forestry	Richard Allan Morgan	Packaging
James Arthur Biener	Packaging	Robert Mathew Nicol	Residential Building
Stephen Joseph Chismar III	Wood Processing and Technology	Leland John Owen	Forestry
Roy Harvey Elsworth	Agricultural Mechanics	Thomas Stockwell Pouch	Animal Husbandry
Alfred Sullivan Farr	Residential Building	Richard Daniel Radowicz	Packaging
Roger Wilbert Godfrey	Agricultural Mechanics	Paul Eldon Randolph	Floriculture
Gordon Victor Grossman	Animal Husbandry	James Arthur Roberts	Park Management
Stephen William Hale	Packaging	Robert J. Scranton	Forestry
John Robert Hesselink	Food Science	Albert Raymond Serpa	Forestry
Ernest Louis Hester, Jr.	Agricultural Mechanics	Robert Harry Shatney	Packaging
Robert Arthur Hirsch	Wood Processing and Technology	Paul Joseph Shereda	Forestry
O. Eugene Holleque	Packaging	Frederick Carl Shiery	Animal Husbandry
Carlos Blocher Jagoe, Jr.	Lumber and Building Materials Merchandising	Gregory Morse Shoop	Lumber and Building Materials Merchandising
Alfred Jay Johnson	Forestry	Paul Walter Simon	Pomology and Vegetable Production
Herbert Marshall Johnson	Park Management	Richard Carl Smith	Mobile Homes
Thomas Arthur Kornoelje	Fisheries and Wildlife	Jerry Lynn Spangler	Park Management
*Alwin William Kulenkamp	Poultry Science	John Julius Staack	Floriculture
Russell Samuel Lincoln	Fisheries and Wildlife	James Prescott Stimson	Packaging
David Francis Manders	Packaging	Valentine Sue Sutherland	Poultry Science
		Richard Lee Volkamer	Horticulture

\*With Honor

## DEGREE OF BACHELOR OF SCIENCE (Continued)

James David Walcutt	<i>Soil Science</i>	Robert Allen Young	<i>Forestry</i>
Gary Howard Ward	<i>Packaging</i>	Walter Zaremba	<i>Residential Building</i>
Gerald Patrick Williams	<i>Lumber and Building Materials Merchandising</i>		

## DEGREE RECOMMENDED JOINTLY WITH THE COLLEGE OF EDUCATION

BACHELOR OF SCIENCE—*Agricultural Education*

Edward Roy Munger

Thomas Henry Spratt

## DEGREE OF MASTER OF SCIENCE

Gerald Ray Bouck	<i>Fisheries and Wildlife</i>	Benoy Kumar Mukherjee	<i>Resource Development</i>
Guillermo Carrera	<i>Agricultural Mechanics</i>	Harry Paul Rasmussen	<i>Horticulture</i>
Antonio Martins Chaves	<i>Farm Crops</i>	Raymond Edward Reilly	<i>Fisheries and Wildlife</i>
James Robert Clary	<i>Fisheries and Wildlife</i>	Ronald Wayne Rybicki	<i>Fisheries and Wildlife</i>
Daniels Layten Davis	<i>Farm Crops</i>	William Godfrey Schmutz	<i>Dairy</i>
Johann Basson De Swardt	<i>Agricultural Economics</i>	Teh Chien Shen	<i>Farm Crops</i>
Alan Gergory Ferguson	<i>Biochemistry</i>	Sven Erik Soderberg	<i>Agricultural Economics</i>
Willard Louis Gross	<i>Fisheries and Wildlife</i>	Darrell Sparks	<i>Horticulture</i>
DoWon Hahn	<i>Animal Husbandry</i>	Jordanis Alexander Tsolakides	<i>Forest Products</i>
Omkar Nath Kunzro	<i>Animal Husbandry</i>	Bruce Irving Veltman	<i>Dairy</i>
Shawki Shahin Masri	<i>Forestry</i>	John Vondruska	<i>Agricultural Economics</i>
Nguyen Dinh Mo	<i>Forestry</i>	Ralph A. Ward	<i>Food Science</i>
Kamal El Dim Hussein Motawi	<i>Food Science</i>	Edward Joseph Wladyka	<i>Food Science</i>



COLLEGE OF AGRICULTURE

DEGREE RECOMMENDED JOINTLY WITH THE COLLEGE OF AGRICULTURE

MASTER OF SCIENCE—*Agricultural Engineering*

Gary Winton Ash

Arnold G. Berlage

Max Myron DeLong

Eduardo Gonzalez-Orbegoso

Mohamed Yousry Hamdy

David Roger Knicely

James Warren Throop

# COLLEGE OF ENGINEERING

The candidates will be presented by DEAN JOHN D. RYDER

## DEGREE OF BACHELOR OF SCIENCE

*Edward Worthy Allis	<i>Mechanical Engineering</i>	James Arthur McAvoy	<i>Civil Engineering</i>
*James Francis Bridges	<i>Electrical Engineering</i>	Pandurang Ramchandra Patil	<i>Civil Engineering</i>
Richard Lee Fanson	<i>Mechanical Engineering</i>	Samuel Nicholas Rudnick	<i>Civil Engineering</i>
Michael Aaron Folkerts	<i>Electrical Engineering</i>	Gary Lee Schilling	<i>Electrical Engineering</i>
Raymond Morris Fox	<i>Chemical Engineering</i>	Rama Pati Singh	<i>Civil Engineering</i>
Michael Michiyuki Fujimoto	<i>Electrical Engineering</i>	Douglas Arthur Thompson	<i>Chemical Engineering</i>
Donald Edwin Lutz	<i>Chemical Engineering</i>		

## DEGREE RECOMMENDED JOINTLY WITH THE COLLEGE OF AGRICULTURE

### BACHELOR OF SCIENCE—Agricultural Engineering

Manuel Octavio deRomana	*Charles Edward Nichols
James Earl Mitchell	Gerald Shilling

## DEGREE OF MASTER OF SCIENCE

Stanton Malcolm Blumenthal	<i>Mechanical Engineering</i>	Chi K. Chyung	<i>Metallurgical Engineering</i>
Lee Ward Burgett	<i>Mechanical Engineering</i>	John Owen Conover	<i>Mechanical Engineering</i>
Owen Eustace Chirwa	<i>Mechanical Engineering</i>	Subhas Chandra Ghorai	<i>Mechanical Engineering</i>

\*With Honor

# COLLEGE OF HOME ECONOMICS

The candidates will be presented by DEAN THELMA E. PORTER

## DEGREE OF BACHELOR OF SCIENCE

Jane Ann Axtell	<i>Interior Design</i>	Suzanne Bolles Hewitt	<i>Dietetics</i>
Catherine Winifred Clarke	<i>Retailing of Textiles and Clothing</i>	Patricia Dee O'Bryan	<i>Retailing of Textiles and Clothing</i>
Judith Lee Eaton	<i>General Home Economics</i>	Audrey Joann Zbock	<i>General Home Economics</i>
*Ruth Hetsroni	<i>General Home Economics</i>	Patricia Margaret Zuehlke	<i>Interior Design</i>

## DEGREE RECOMMENDED JOINTLY WITH THE COLLEGE OF EDUCATION

### BACHELOR OF SCIENCE

*Lora Kay Bonine	<i>Home Economics Teaching</i>	Janet Catherine Macdonald	<i>Child Development and Teaching</i>
Elaine Wronski Brzezinski	<i>Child Development and Teaching</i>	Susan Sophia Osner	<i>Child Development and Teaching</i>
Pauline Emma Buss	<i>Home Economics Teaching</i>	Barbara Joann Simms	<i>Child Development and Teaching</i>
Mary Karen Gowell	<i>Child Development and Teaching</i>	Sharlene Tator	<i>Child Development and Teaching</i>
M. Janice Jones	<i>Child Development and Teaching</i>	Alvida M. Whitman	<i>Home Economics Teaching</i>

## DEGREE OF MASTER OF ARTS

Arlene Louise Bjorngaard	<i>Textiles and Clothing</i>	Jean Esther Schubel	<i>Textiles and Clothing</i>
Patricia Moore Decker	<i>Textiles and Clothing</i>	Surraya Wasi	<i>Related Arts</i>
Marilyn Revell DeLong	<i>Textiles and Clothing</i>		

\*With Honor

COLLEGE OF HOME ECONOMICS

DEGREE OF MASTER OF SCIENCE

Mary Ellen Ault	<i>Institutional Administration</i>	Sister M. John Martin, O.P.	<i>Nutrition</i>
Sister M. Clare Olivia Beaubien, O.P.	<i>Nutrition</i>	Carolyn Douthit Mulloy	<i>Institutional Administration</i>
Alma Jean Blake	<i>Nutrition</i>	Mary Elizabeth Quam	<i>Institutional Administration</i>
June Ellen DeHate	<i>Nutrition</i>		



# COLLEGE OF VETERINARY MEDICINE

The candidates will be presented by DEAN WILLIS W. ARMISTEAD

## DEGREE OF BACHELOR OF SCIENCE—*Veterinary Medicine*

Lawrence William Allaben

Duane Elmer Rohe

Jeffry Blair Buck

Jacqueline Banyan Whiteside

\*Richard Hubert McFarlin

## DEGREE OF MASTER OF SCIENCE

Brij Mohan Mitruka

Joshua Geoffrey Wandera

*Veterinary Pathology*

*Microbiology and Public Health*

Gerald Munene Mugera

*Veterinary Pathology*

\*With Honor

# COLLEGE OF BUSINESS

The candidates will be presented by DEAN ALFRED L. SEELYE

## HONORS COLLEGE

### DEGREE OF BACHELOR OF ARTS

William Joseph O'Brien  
*General Business Administration*

### DEGREE OF BACHELOR OF ARTS

†Robert Massimo Abruzzi	<i>Restaurant Management</i>	Philip Arthur Brake	<i>Personnel Administration</i>
*James John Aitken	<i>Accounting</i>	Bergen Ira Bull	<i>Personnel Administration</i>
James Martin Anderson	<i>General Marketing</i>	Robert Denny Burdinie	<i>General Business Administration</i>
Stelios George Andos	<i>Hotel, Motel and Club Management</i>	David Matthew Burke	<i>General Business Administration</i>
James Donald Antczak	<i>Institutional Management</i>	Frank Joseph Burst	<i>General Marketing</i>
H. Jon Applegate	<i>Hotel, Motel and Club Management</i>	*John Henry Campbell	<i>General Marketing</i>
Alan Edward Archambault	<i>Financial Administration</i>	Richard Kieth Carrick	<i>Accounting</i>
Charles G. Beckstrom	<i>Financial Administration</i>	Thomas Eugene Ciemierek	<i>General Marketing</i>
Ronald Paul Behmer	<i>General Marketing</i>	David William Clanahan	<i>Hotel, Motel and Club Management</i>
William Arthur Blastic	<i>General Marketing</i>	David Otis Connolley	<i>General Marketing</i>
Peter Jacob Bolhuis	<i>General Business Administration</i>	Paul Edward Connolly	<i>General Business Administration</i>
Edward Enoch Borkus	<i>Personnel Administration</i>	Robert Adelbert Cook	<i>Purchasing Administration</i>
Gerald Alan Boschma	<i>Accounting</i>	Gary James Crawford	<i>Transportation Administration</i>
Lee Allen Bowen	<i>General Business Administration</i>		

\*With Honor

†With High Honor

## DEGREE OF BACHELOR OF ARTS (Continued)

James Bernard Dailey  
*Hotel, Motel and Club Management*

David Edward Dase                      *General Marketing*

Frederick Fisher Drulard                      *Accounting*

Norman Russell Duffy    *Personnel Administration*

Thomas Ward Early  
*General Business Administration*

Robert Craig Edwards                      *Accounting*

William Charles Eyke  
*General Business Administration*

Thomas George Farough                      *Accounting*

\*Edward Michael Fidelman                      *Accounting*

Clive Marc Fox  
*Hotel, Motel and Club Management*

Emilia Antonia Fracchia  
*Executive Secretarial Administration*

Brian Edward Franz                      *Accounting*

Robert Vincent George *Production Administration*

\*David Henry Gibbs                      *Accounting*

Ronald Leo Gloden                      *General Marketing*

Bruce Nicholson Goodburne  
*Personnel Administration*

Larry Alan Gutowsky    *Financial Administration*

James Rowland Hedges *Personnel Administration*

William Oren Hillshafer, Jr.  
*Hotel, Motel and Club Management*

David Paul Hofley    *Production Administration*

Ann Best Howard  
*Executive Secretarial Administration*

Richard Arthur Jackson *Personnel Administration*

Durga Gopal Kamtekar                      *General Marketing*

Fred Phillip Katzman  
*General Business Administration*

Dean Wellington Kelley                      *Accounting*

\*Lina May Kemmis                      *Accounting*

Gerald Milton King                      *General Marketing*

Russell Stuart Kropschot  
*General Business Administration*

Carl H. Kutsche, Jr.  
*Production Administration*

Guy Joseph LaPrad                      *General Marketing*

Jerry Andrew Lamb                      *Accounting*

Theodore Thomas Latz *Personnel Administration*

Aurelio Ledesma                      *Accounting*

Fredrick William Lee  
*Hotel, Motel and Club Management*

Leonard Raymond Lendzion  
*General Business Administration*

Robert Henry Lewis    *Financial Administration*

Richard Ronan Lipsky  
*Hotel, Motel and Club Management*

Howard Eugene Lyon                      *Accounting*

Bruce Edward McDonald                      *General Marketing*

Paul Douglas Meador                      *General Marketing*

Paul Norman Meyer    *Financial Administration*

\*With Honor

COLLEGE OF BUSINESS

DEGREE OF BACHELOR OF ARTS (Continued)

Leighton P. Miller	<i>General Marketing</i>	John Arthur Schluentz	<i>General Business Administration</i>
Herman Ernest Miller, Jr.	<i>Hotel, Motel and Club Management</i>	Donal D. Semler	<i>Retailing Administration</i>
Robert Gordon Morrison	<i>General Marketing</i>	Timothy Frederick Shank	<i>General Marketing</i>
Richard LeRoy Moser	<i>General Marketing</i>	Joyce Forsberg Somerville	<i>Executive Secretarial Administration</i>
Douglas Houghton Nelson IV	<i>General Marketing</i>	Charles Duane Staton	<i>Hotel, Motel and Club Management</i>
Douglas Keith Nelson	<i>Restaurant Management</i>	John Wendell Steen	<i>Restaurant Management</i>
Stephen Bruce Padar	<i>Hotel, Motel and Club Management</i>	Goichi Tanida	<i>General Business Administration</i>
Ralph William Pearce II	<i>Hotel, Motel and Club Management</i>	Wayne Howard Taracks	<i>General Business Administration</i>
Biggio James Perrello	<i>General Business Administration</i>	Merrill Welby Taylor	<i>Restaurant Management</i>
Charles Milton Pfaff	<i>General Marketing</i>	Daniel Robert Thomas	<i>General Business Administration</i>
George Hathaway Poulsen	<i>Insurance</i>	Richard E. Waters	<i>Accounting</i>
Jerry Taylor Quigg	<i>Hotel, Motel and Club Management</i>	Celia Jane Waxler	<i>Retailing Administration</i>
Bruce Henry Ramthun	<i>General Business Administration</i>	Arthur George Weeber, Jr.	<i>Accounting</i>
Joseph Hewes Rawden	<i>Restaurant Management</i>	Cherrie Ann Weight	<i>Executive Secretarial Administration</i>
Marshall Blane Roberts	<i>Production Administration</i>	Louis Mark Weiss	<i>Accounting</i>
*Curtis Dale Rogers	<i>Accounting</i>	Stanley Gordon Wheeler	<i>General Business Administration</i>
John MacCalla Ryder	<i>Accounting</i>	Ross Huntley Woodward	<i>Restaurant Management</i>
*John Charles Schierholz	<i>Accounting</i>		

DEGREE RECOMMENDED JOINTLY WITH THE COLLEGE OF EDUCATION

BACHELOR OF ARTS—*Business Education*

Beverly Jean Ballheim	Richard Ronald Laubach
Judy Marie Binder	Guy Ronald Roberts

\*With Honor



## DEGREE OF MASTER OF ARTS

Gary Persay Dunsmoor  
*Personnel and Human Relations*

Richard M. Healy *Food Marketing Management*

James Denins Kelley *Business Administration*

Lewis David Reiff *Business Administration*

Clark B. Sherman *Business Administration*

Calvin Lewis Swindell  
*Business Administration*

Leonard Edward Zehnder  
*Hotel, Restaurant and Institutional Management*

## DEGREE OF MASTER OF BUSINESS ADMINISTRATION

Roberto Ramon Aguilar *Financial Administration*

Dan Okey Bauer *Marketing*

Roger Lee Boeve *Accounting*

Robert David Chickering *Marketing*

Jack Martin Durliat *Production Administration*

Maurice Bartel Goudzwaard  
*Financial Administration*

Floyd LaRue Herald *Marketing*

Thomas Fraser Hogan *Marketing*

Russell George Hopkins *Marketing*

Kenneth Eugene Kellogg  
*Production Administration*

James Lee Kemerling *Marketing*

George Kirkpatrick *Accounting*

Noel Edward Kurth *Marketing*

Ronald Alfred Malis *Marketing*

Roger Fredrick Meissner *Transportation*

Robert Joseph Meuleman *Financial Administration*

Robert Lee Mulloy *Transportation*

Jerome Lynn Nilson *Marketing*

Yeshwant Krishnaji Pradhan  
*Financial Administration*

Jack Edward Randall *Marketing*

Stoakley Walter Swanson  
*Personnel and Human Relations*

Richard Pierce Williamson *Marketing*

# COLLEGE OF EDUCATION

The candidates will be presented by DEAN JOHN E. IVEY, JR.

## DEGREE OF BACHELOR OF ARTS—*Elementary Education*

Sharon Arlyle Bartels	Letha Dora McCreery
Kendal Lee Baughman	Leanne McElhoe
Rosemary Louise Best	Diane Louise Mehling
Colleen Ann Bordeaux	Rita M. Miller
Barbara Marie Butterfield	†Susan Phinney Nelson
Terese Terri Campbell	Sharon Sue Patterson
*Judith Mabel Cole	Beverly Ann Punches
Dorothy Ann Cummings	*Nancy Gibbs Reynolds
Patricia Ann Curry	Constance Ann Shaw
Mary Guild Davison	Lynn Roberta Sher
Karen R. Fethke	Susan Marie Spencer
Jo Ann Gelzer	Sharon Janet Struble
Paul Alan Gerhardt	Kathryn Janet Sweet
Phyllis J. Hargis	*Henry Joy Taylor
Martha Lynn Hicks	Nayc Lynn Todd
*Anthony Joel Juliano	Judith Ann Wallis
Daniel Karl Kelley	Judith Runquist Wilkinson
Gene Mary Kline	Gail Lopucki Winship

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## DEGREE OF BACHELOR OF SCIENCE

Douglas C. Beechem	<i>Physical Education</i>	Richard Dale Brown	<i>Physical Education</i>
Shirley Jean Brown	<i>Physical Education</i>	Marilyn Ann Clark	<i>Health Education</i>

\*With Honor

†With High Honor

## DEGREE OF BACHELOR OF SCIENCE (Continued)

Burton Donovan Comstock	<i>Industrial Arts</i>	Marcia Jean McKay	<i>Physical Education</i>
Christopher James Dundas	<i>Physical Education</i>	Heather Ruth Montgomery	<i>Recreation-Community Recreation</i>
Daniel Earl Eakin III	<i>Physical Education</i>	*James Clearence Mohr	<i>Physical Education</i>
Daniel Coates Foster	<i>Physical Education</i>	Thomas Robert Mustonen	<i>Physical Education</i>
Claude Adelard Fournel	<i>Recreation-Community Recreation</i>	James Dorion Rooks	<i>Recreation-Community Recreation</i>
Sheila Marie Guerra	<i>Physical Education</i>	Carrol Frances Spaetzel	<i>Recreation-Youth Organization Leadership</i>
Budd Eugene Harding	<i>Recreation-Community Recreation</i>	Lee R. Sumpter, Jr.	<i>Industrial Arts</i>
George Olen Homer, Jr.	<i>Physical Education</i>	William F. Weber	<i>Physical Education</i>
Carol Joan Kauderer	<i>Recreation-Youth Organization Leadership</i>	Roger John Wiechmann	<i>Industrial Arts</i>
Robert Bruce Lillyblad	<i>Physical Education</i>	Thomas C. Wilson	<i>Physical Education</i>

## DEGREE OF MASTER ARTS—Education

Jacqueline June Abbott	Delbert William Butson
Carol Ann Adams	Marilyn Kay Byers
Merle Smith Allbright	Vera M. Calhoun
James Norman Barker	Donald Harry Crandall
Dorothy W. Bates	Karen Henne Cubitt
Wilfrid LeRoy BeBeau	Nancy Justin Dalrymple
Charles Briggs Bennett	Nadia M. Darwich
Joel Claudius Bryant	William Bartlett Davis
Roger Leon Bunker	Mary Charlotte Decker
Michael James Burke	Michelena E. DeRose

\*With Honor

COLLEGE OF EDUCATION

DEGREE OF MASTER OF ARTS—*Education* (Continued)

Kimball Decker Dyer	Evelyn Bradbury Lynch
Robert Curtis Elliott	Duane Ellsworth Marlan
Mildred E. Kirkwood Faber	Janet Jean Martin
Edmund Daly Farhat	Mary Haviland Martin
James Raymond Faust	W. William Mateer
Thomas Edward Fitzpatrick	Dawn Beeler Meyer
Donald Peter Frank	Kenneth Myles Mitchell
Delphine Lillian Gay	Ruby Ivon Mogis
Leslie Ernest Gee	Alice J. Morris
Kenneth Walter Gest	Raymond William Nunez
Stanley Richard Gooch	Edward L. Palmer
Paul E. Graf	Violet Betty Reed
Robert John Hecksel	Norman Charles Reidel
Patricia Sue Herrick	William Eugene Rice
Keith Frederick Hoskins	Earle Everett Richardson
Clarice Christine Jensen	John Robert Riley
Ervin Garth Johnson	Russell Lee Rivet, Jr.
Robert Edwin Johnson	Thomas Harold Rose
Gerhard Kaminski	Carl Arthur Sandeen
Imogene Keskey	Ibrahim Mahmoud Shalaby
Ney R. Kinsland	George William Siebert
Dale Walter Knight	Wayne Sievert
Elizabeth Beebe Lewis	George Simcina
Jerald Elbert Lounsbury	Richard Lyle Skimin
Georgiale Lovse	Francene Blasius Smith

DEGREE OF MASTER OF ARTS—*Education* (Continued)

Clyde Kernick Stephens, Jr.	Paul Dwight Vincent
Gundars Strautnieks	John W. Vis
Donald William Sutton	James Richard Wassenaar
Mary Lou Brown Tanton	John Thomas Watson
Charles Joseph Testa	Sue F. Welch
William Douglas Van Arsdalen	Ruth Freed Wesner
Eldon Cyril Van Spybrook	William Edward York
Foster Martin VanVliet	



# COLLEGE OF COMMUNICATION ARTS

The candidates will be presented by DEAN FRED S. SIEBERT

## HONORS COLLEGE

### DEGREE OF BACHELOR OF ARTS

†Carol Ann Parker                      *Communication*

### DEGREE OF BACHELOR OF ARTS

Rodney S. Albert	<i>Television and Radio</i>	Frederic Lynn Klein	<i>Television and Radio</i>
*Ute Louise Anna Auld	<i>Journalism</i>	Donald Roger Kleis	<i>Communication</i>
John W. Beatty	<i>Communication</i>	William W. Klingelsmith	<i>Journalism</i>
Diane Joan Bever	<i>Speech</i>	Annette Genser Leckart	<i>Communication</i>
Ben Harvey Brown, Jr.	<i>Advertising</i>	Allan William Mitchell	<i>Advertising</i>
Charlotte Ann Dalton	<i>Journalism</i>	Ann Darling Mohr	<i>Journalism</i>
Errol Lee Foss	<i>Television and Radio</i>	Gerald Keith Nelson	<i>Advertising</i>
Allan R. Friedman	<i>Speech</i>	Larry D. Oliver	<i>Advertising</i>
A. Thomas Hards	<i>Television and Radio</i>	Don Raymond Pember	<i>Journalism</i>
Howard W. Holmes	<i>Journalism</i>	Charles Thomas Sharpe	<i>Advertising</i>
Stephen Hunter	<i>Advertising</i>	Douglas Allen St. John	<i>Advertising</i>
Albert Kaufman	<i>Communication</i>	Lani Francis Waiwaiole	<i>Television and Radio</i>

### DEGREE RECOMMENDED JOINTLY WITH THE COLLEGE OF EDUCATION

#### BACHELOR OF ARTS—*Speech*

Elwyn Robert Fatchett, Jr.	Drucilla Ann Namey
Janice Lynn Fry	Joan Elaine Sheilds
Jana Cleveland Kerns	Nancy Lee Tobias

•With Honor

†With High Honor

## DEGREE OF MASTER OF ARTS

David Raymond Bates	<i>Speech</i>	Arthur Franklin Holston, Jr.	<i>Television and Radio</i>
Sumer Mehmet Bileydi	<i>Television and Radio</i>	Roger Alan Long	<i>Speech</i>
Rita Smickstein Burney	<i>Speech</i>	Barbara Elaine Subar	<i>Speech</i>
James Kent Ellerbrake	<i>Advertising</i>	Francis Harold Tokay	<i>Speech</i>
Kay Marie Eyde	<i>Television and Radio</i>	Robert Louis Winters	<i>Speech</i>
Natalie Ann Gordon	<i>Television and Radio</i>		

# COLLEGE OF ARTS AND LETTERS

The candidates will be presented by DEAN PAUL A. VARG

## HONORS COLLEGE

### DEGREE OF BACHELOR OF FINE ARTS

†Alice Dunham Henshaw Art

DEGREE RECOMMENDED JOINTLY WITH THE COLLEGE OF EDUCATION

### DEGREE OF BACHELOR OF ARTS—*English*

\*Susan Caroline Christensen

\*Evelyn Joan Weckerly

Annette Scott Vaillancour

### DEGREE OF BACHELOR OF MUSIC—*School Music*

†Lorelei Exelby Darling

†Ruth Ann Seeburger

†Charlotta Ruth Klein

### DEGREE OF BACHELOR OF ARTS

Sharron Ann Bonds	<i>English</i>	Shirley Ann Hilliard	<i>History</i>
Christopher Anne Brizard	<i>Humanities</i>	Selma D. J. Hollander	<i>Art Practice</i>
Richard Elwyn Bunting	<i>Arts and Letters</i>	William Michael Jacobs	<i>History</i>
Frances Elaine DeLong	<i>Humanities</i>	Siri Eleonor James	<i>English</i>
Wallace K. Ewing	<i>English</i>	Sandra Anne Jungerheld	<i>Art Practice</i>
Roy Frank Friedl	<i>Philosophy</i>	†Susan Diane Kistler	<i>Humanities</i>
Holly Jean Gerbing	<i>Humanities</i>	Janet Miller Kolesnikow	<i>Humanities</i>
Frank Ernest Hansen	<i>Art Practice</i>	*Clark Lincoln	<i>Art Practice</i>

\*With Honor

†With High Honor

## DEGREE OF BACHELOR OF ARTS (Continued)

Jeremiah Lee Lynch	<i>Arts and Letters</i>	Gerald Warren Peterson	<i>Art Practice</i>
*Thomas Francis McGuane	<i>Humanities</i>	Joan Evelyn Reardon	<i>History</i>
Donna Dale Nolf	<i>History</i>	Douglas Alan Scoggins	<i>Arts and Letters</i>
Nancy Ruth Noyes	<i>Arts and Letters</i>	James LeRoy Shutes	<i>Arts and Letters</i>
William Michael Olree	<i>History</i>	Diana Jean Slotnick	<i>English</i>

## DEGREE RECOMMENDED JOINTLY WITH THE COLLEGE OF EDUCATION

## BACHELOR OF ARTS

Iris Ruth Arthur	<i>History</i>	Linda Jane Heim	<i>History</i>
Ilarro Albert Baldelli	<i>History</i>	Max W. Heinemann	<i>History</i>
Elizabeth Jane Bauer	<i>Art Education</i>	Janice Nelson Hermansen	<i>Spanish</i>
Pamela Sue Black	<i>History</i>	Patricia Ann Lamberts	<i>Art Education</i>
Alice Cecile Bonomo	<i>Spanish</i>	Joanne Vera Nedoba	<i>French</i>
Judith Ellen Borgelt	<i>History</i>	Judith Ann Purdy	<i>Art Practice</i>
Sharon Patterson Burns	<i>English</i>	*Carol Jo Rice	<i>English</i>
†Carol Clarke Cassidy	<i>English</i>	Judy Marie Schopp	<i>English</i>
Linda Scott Dickson	<i>Art Education</i>	Sandra Emmary Shaifer	<i>Art Education</i>
Bonnie Lee Fox	<i>History</i>	William Eugene Truss	<i>History</i>
*Laura Kay Gould	<i>Art Education</i>	Elizabeth Stephanie Welkoske	<i>English</i>
James Duncan Green	<i>History</i>	*Grant Curtis Winchell	<i>History</i>
David Charles Grindell	<i>Art Education</i>	*Barbara Jean Wheeler	<i>History</i>
Carol Louise Harris	<i>Spanish</i>	Sydney Sue Young	<i>Art Education</i>

## DEGREE OF BACHELOR OF FINE ARTS

†William Grant Adams	<i>Art</i>
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\*With Honor

†With High Honor

COLLEGE OF ARTS AND LETTERS

DEGREE OF BACHELOR OF MUSIC

\*Mary Ellen Dunn

*Music Theory*

DEGREE RECOMMENDED JOINTLY WITH THE COLLEGE OF EDUCATION

BACHELOR OF MUSIC—*School Music*

\*John Edward Courter

Samuel Joseph Levine

Lynne Winters Granger

Peter Kurt Schewe

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DEGREE OF MASTER OF ARTS

Jerry Lee Bower

*History*

John Milton Metheany III

*Art*

Mary Ruth Crown

*Music*

Gwendolyn Parker Miller

*English*

Douglas Eugene Drewry

*History*

Melvin Modest Monette

*History*

George Phillip Mansour

*Spanish*

Joseph William Sims

*French*

Allan John Martin

*English*

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DEGREE OF MASTER OF ARTS FOR TEACHERS

Donald Robert Cowley

*History*

Delores Marie Schiele

*English*

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DEGREE OF MASTER OF MUSIC

Richard Lee Carpenter

*Applied Music*

Allan Kenneth Kirkpatrick

*Applied Music*

Margaret Mary Fox

*Music Education*

Olive Dobson Padgett

*Applied Music*

George Spencer Jakeway

*Music Education*

Cynthia Sue Phillips

*Music Education*

\*With Honor



# COLLEGE OF NATURAL SCIENCE

The candidates will be presented by DEAN RICHARD U. BYERRUM

## HONORS COLLEGE

### DEGREE OF BACHELOR OF SCIENCE

†Stephen Gruber BeMiller	Mathematics	*Woollcott Keston Smith	Mathematics
†John Stanley Ross	Physical Sciences	†Barbara Allen Wilson	Entomology

### DEGREE OF BACHELOR OF ARTS

Valentina Maria Kazanowska	Chemistry	Daniel Jo Weaver	Chemistry
Jeffrey I. Pollack	Statistics		

### DEGREE RECOMMENDED JOINTLY WITH THE COLLEGE OF EDUCATION

#### BACHELOR OF ARTS—*Chemistry*

Walter Ray Dever	Daniel C. Himebaugh
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### DEGREE OF BACHELOR OF SCIENCE

Tamera Gay Badenoch	Biological Sciences	Marvin Lee Good	Biological Sciences
Larry Allen Bassett	Zoology	Robert Frederick Heuser	Geology
*Josephine Belding	Nursing	Lorne Thomas Inglis	Geology
Carola Marietta Cattani	Zoology	Don Richard Johnson	Chemistry
Thomas Joseph Culligan	Mathematics	*George Taylor Johnson III	Physics and Astronomy
Gale Edward Elwer	Mathematics	Derald Roy Kliem	Physics and Astronomy
John Frederick Fox	Physics and Astronomy	Ferris Edward Lucas II	Zoology

\*With Honor  
†With High Honor

# COLLEGE OF NATURAL SCIENCE

## DEGREE OF BACHELOR OF SCIENCE (Continued)

William Frederic Marrs	Zoology	Uldis Plics	Chemistry
Robert Anthony Moorehead	Zoology	Alfred Frederick Schwartzfisher	Mathematics
Kern A. Moulton	Mathematics	David Kirk Tate	Mathematics
James Charles Nolan	Zoology	Charles Horace Webber	Physical Sciences
Bernadete Marie Palaszek	Nursing	Sidney James Wise	Zoology
Thomas Stanley Paluck	Mathematics	Silvija Zirnitis	Nursing
*Paul Ralph Pennock, Jr.	Mathematics	David Earl Zuehlke	Mathematics
*Allan Andrew Petersen	Mathematics		

## DEGREE RECOMMENDED JOINTLY WITH THE COLLEGE OF EDUCATION

### BACHELOR OF SCIENCE

Arthur John Apkarian	Mathematics	Calvin Gene Lamoreaux	Mathematics
Ronald Laverne Auble	Physics and Astronomy	Max Martin Mackie	Physical Sciences
Theodore Richard Boyer	Biological Sciences	*James Joseph McGran	Mathematics
Paul Leslie Bradfield	Biological Sciences	Louis Ruthardt Miller	Physical Sciences
William Lee Cole	Mathematics	Carter James Ogle	Biological Sciences
Norman Tyrone Farnum	Physical Sciences	Rose Ann Schwartzfisher	Mathematics
Ernest George Fischer, Jr.	Geology	James Kent Shaw	Biological Sciences
Alan Jon Harvey	Mathematics		

## DEGREE OF MASTER OF ARTS FOR TEACHERS

Evelyn Helen Nutile Brayton	Mathematics	George Helvey, Jr.	Chemistry
Edwin Joe Day	General Science	John Robert Stone	Chemistry

\*With Honor

## DEGREE OF MASTER OF FINE ARTS

Gerald Grubb Gard

Art

## DEGREE OF MASTER OF SCIENCE

Harvey Lee Ackerman

Statistics

Keith Edward Dahlman

Chemistry

Morteza Alavinejad

Statistics

Edward Arthur Greenberg

Botany and Plant Pathology

Edward James Apple

Chemistry

Charles Edward Kerman

Geology

Richard Eugene Berg

Physics and Astronomy

Kei Kosaka

Physics and Astronomy

Henry Edward Booke

Zoology

Thomas L. Lawler

Geology

James W. Burns

Geology

William Hoover Maas

Zoology

Chi Chau Chan

Statistics

John Patrick Mullooly

Chemistry

Shu Chen Chang

Entomology

Ronald John Pfohl

Zoology

Hanumara Ramachandra Choudary

Statistics

Paul Albert Volz

Botany and Plant Pathology

James Paul Covell

Zoology

Matthew John Zabik

Chemistry

Glenn Price Craver

Chemistry

# COLLEGE OF SOCIAL SCIENCE

The candidates will be presented by DEAN LOUIS L. MCQUITTY

## HONORS COLLEGE

### DEGREE OF BACHELOR OF ARTS

†Thomas Robert Andris	<i>Social Science</i>	*Virginia Ann Pace	<i>Psychology</i>
†Janice Faye Davis	<i>Social Science</i>		

DEGREE RECOMMENDED JOINTLY WITH THE COLLEGE OF EDUCATION

### BACHELOR OF ARTS

†Merrie Roxie Rundle	<i>Social Science</i>
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### DEGREE OF BACHELOR OF ARTS

Kathryn A. Anderson	<i>Political Science</i>	James Roger Duncan	<i>Social Science</i>
Gary F. Barber	<i>Economics</i>	Robert Ward Ehinger	<i>Political Science</i>
Walter Richard Bieder	<i>Sociology and Anthropology</i>	Charles Maurice Feight	<i>Social Science</i>
Conrad Theodore Bloom, Jr.	<i>Social Science</i>	Edward George Fields	<i>Sociology and Anthropology</i>
Arthur F. Brandstater, Jr.	<i>Economics</i>	Joffre William Filion	<i>Geography</i>
Michael Lang Brickner	<i>Political Science</i>	Harvey Alger Fischer	<i>Political Science</i>
*Janet Mary Brooks	<i>Political Science</i>	Alice A. Fisher	<i>Social Science</i>
Leslie A. Brown	<i>Economics</i>	Myrna Lee Gary	<i>Psychology</i>
Ronald Jay Christensen	<i>Psychology</i>	Mildred V. Gidner	<i>Geography</i>
Robert Joe Decker	<i>Social Science</i>	Mina Isabelle Gold	<i>Sociology and Anthropology</i>
John Trimble Doty, Jr.	<i>Economics</i>	Frederick Harold Goodnow	<i>Social Science</i>
		Larry M. F. Hafemeister	<i>Social Science</i>

\*With Honor

†With High Honor

## DEGREE OF BACHELOR OF ARTS (Continued)

Dalrymple Muir Harris	<i>Social Science</i>	Harvey Philko	<i>Social Science</i>
Thomas R. Hext	<i>Social Science</i>	Gary Hubbard Phillips	<i>Social Science</i>
Gordon Brockwell Heylin	<i>Political Science</i>	John Daniel Polakowski	<i>Social Science</i>
Patricia June Hluchaniak	<i>Social Science</i>	Stephen Bradley Price	<i>Economics</i>
John Alexander Lutz Hughes	<i>Social Science</i>	Nancy Jane Reece	<i>Social Work</i>
Joseph Patrick Jeffs	<i>Economics</i>	Ronald Thaddeus Retka	<i>Social Science</i>
Gerald LaVerne Jenkins	<i>Political Science</i>	*Shirley McIntyre Rheubottom	<i>Social Science</i>
George Erick Johnson	<i>Social Science</i>	Carl Wesley Roeser	<i>Psychology</i>
Kent Thornton Johnson	<i>Political Science</i>	James Arthur Rowe	<i>Social Science</i>
William Prescott Jordan	<i>Social Science</i>	Richard Thomas Sadler	<i>Economics</i>
Peter John Kakela	<i>Geography</i>	Jon Sidney Schuster	<i>Social Science</i>
Jack Wayne Knirk	<i>Political Science</i>	Arthur Valentine Schwarm	<i>Social Science</i>
Henry Stanley Kopek	<i>Economics</i>	Peter Finley Secchia	<i>Economics</i>
Stephen Kutchins	<i>Psychology</i>	Frederic Thomas Selak	<i>Psychology</i>
*Robert Edmond LeCureux	<i>Psychology</i>	Frank Lewis Shirley	<i>Psychology</i>
Diane J. Luoto	<i>Social Work</i>	Janet Rae Simmons	<i>Psychology</i>
Elizabeth E. Mahoney	<i>Social Work</i>	Spencer Owen Soper	<i>Social Science</i>
Dennis Duane McMichael	<i>Social Science</i>	Robert David Stapelman	<i>Economics</i>
Norman M. Mills	<i>Social Science</i>	Michael M. Sutin	<i>Psychology</i>
Edward Jay Minskoff	<i>Economics</i>	Charlotte Glaydys Swartz	<i>Social Science</i>
Robert Bruce Morrison	<i>Sociology and Anthropology</i>	Peter Julius Trepeck	<i>Psychology</i>
*Wallis Seymour Pallas	<i>Psychology</i>	*Dwight Edwin Turner	<i>Geography</i>
Kenneth William Parker	<i>Social Science</i>	John Robert Waters	<i>Social Science</i>
		Howard Whelan	<i>Social Science</i>

\*With Honor



COLLEGE OF SOCIAL SCIENCE

DEGREE OF BACHELOR OF ARTS (Continued)

George Raymond Williams	<i>Political Science</i>	James Albert Zeller	<i>Psychology</i>
Joanne Carol Willms	<i>Political Science</i>	Judith Nixon Zick	<i>Psychology</i>

DEGREE RECOMMENDED JOINTLY WITH THE COLLEGE OF EDUCATION

BACHELOR OF ARTS—*Social Science*

Robert C. Brown	Bernard Brendan O'Brien
*Jacqueline Ann Burgoyne	Sally Rose Samson
Judith Harvey Caddell	George Edward Steeves
*Judith Carol Gremel	William Robert Weagly
*Gloria Hermanson Heinemann	Warren Paul Whitelock
Joyce Marie Johnson	William Edward Wilder
Carol Ann Marcil	

DEGREE OF BACHELOR OF SCIENCE

F. Joseph Bailey	<i>Urban Planning</i>	John Robert Kleberg	<i>Law Enforcement Administration</i>
*William Oyler Berkheimer	<i>Law Enforcement Administration</i>	Vern Edward Laney	<i>Urban Planning</i>
Edwin Palmer Brown	<i>Urban Planning</i>	Donald Devere Larson	<i>Industrial Security Administration</i>
Kenneth Martin Buss	<i>Industrial Security Administration</i>	Jerry Ira Lasker	<i>Urban Planning</i>
Robert Kasper Ferber	<i>Law Enforcement Administration</i>	Russel Louis Leik	<i>Correctional Administration</i>
Hale Harvey Hitchcock	<i>Industrial Security Administration</i>	Jerry Wayne Morford	<i>Urban Planning</i>
John Francis James Keenan	<i>Law Enforcement Administration</i>	Gene E. Owens	<i>Law Enforcement Administration</i>
		Dennis Gordon Prescott	<i>Law Enforcement Administration</i>

\*With Honor

## DEGREE OF BACHELOR OF SCIENCE (Continued)

Edwin John Pytell  
*Industrial Security Administration*

Arthur Robert Rivers, Jr.  
*Law Enforcement Administration*

William Gardiner Rae  
*Law Enforcement Administration*

James Edwin Scofield  
*Industrial Security Administration*

## DEGREE OF MASTER OF ARTS

Florence Avakian *Political Science*

Karen Gernant *Political Science*

Norman John Baron *Geography*

Joseph Weldon Jennings, Jr. *Psychology*

Robert William Becker *Political Science*

Nancy May Martell *Psychology*

Nicholas Joseph Borrelli *Psychology*

Robert William Moody *Social Science*

Bradley August Bremer *Psychology*

Nobuyoshi Nagase *Sociology and Anthropology*

William Thayre Bucklin *Political Science*

Yoshikazu Nakayama *Economics*

Dominic Martin Bulgarella *Social Science*

Elmer Robert Race *Geography*

Adam Clifford Cahow *Geography*

Phillip Irwin Snett *Psychology*

Byung Chan Cho *Political Science*

Donald Gerald Stein *Psychology*

James Kirkpatrick Davis *Political Science*

Janet Landis Summers  
*Sociology and Anthropology*

Thomas Kay Elliott *Psychology*

Stanley Lester Warner *Economics*

Theodore Robert Ervin  
*Sociology and Anthropology*

## DEGREE OF MASTER OF SOCIAL WORK

Roger Allen Forth

## SCHOOL FOR ADVANCED GRADUATE STUDIES

*The candidates will be presented by* DEAN MILTON E. MUELDER

### DIPLOMA FOR ADVANCED GRADUATE STUDY

- Murl Byron Connor                      B.S., Western Michigan University; M.A., Michigan State University.  
Education. *Major Professor:* W. R. Roe, Professor.
- David Lee Johnson                      B.A., M.A., Michigan State University.  
Education. *Major Professor:* R. L. Featherstone, Associate Professor.
- Otto Lavern Merritt                      A.B., Nebraska Wesleyan University; M.A., Northwestern University;  
Garrett Seminary.  
Education. *Major Professor:* J. E. Jordan, Associate Professor.
- Basil Eugene Shell                      B.A., Western Michigan University; M.A., University of Michigan.  
Education. *Major Professor:* D. J. Lee, Professor.
- 

### CANDIDATES FOR THE DOCTORAL DEGREES

- Ransom Leland Baldwin, Jr., Ph.D. B.S., University of Connecticut; M.S., Michigan State University.  
Dairy. *Major Professor:* R. S. Emery, Associate Professor.  
*Thesis:* Part I. Conversion of Lactate-C<sup>14</sup> and Glucose-C<sup>14</sup> to Propionate by the Rumen Microbiota. Part II. Lactate Metabolism by Peptostreptococcus Elsdonii.
- Robert Charles Bealer, Ph.D.                      B.S., M.S., Pennsylvania State University.  
Sociology and Anthropology. *Major Professor:* J. H. Useem, Professor.  
*Thesis:* The Structural Context of Market News Information and the Differential Distribution of Its Consequences.

## CANDIDATES FOR THE DOCTORAL DEGREES (Continued)

- William Earl Bell, D.B.A.      B.A., M.B.A., Michigan State University.  
Marketing. *Major Professor:* W. Lazer, Professor.  
*Thesis:* A Study of the Socio-Economic Characteristics for Selected Consumer Innovations.
- Charles Mark Bourassa, Ph.D.      B.A., M.A., Michigan State University.  
Psychology. *Major Professor:* S. H. Bartley, Professor.  
*Thesis:* The Effect of Intermittent Photic Stimulation on Visual Resolution.
- Robert Lincoln Bradley, Ph.D.      B.S., Bowling Green State University; B.S. Ed., Ohio Northern University; M.A., Ohio State University.  
Education. *Major Professor:* P. L. Dressel, Professor.  
*Thesis:* Lecture Demonstration Versus Individual Laboratory Work in a Natural Science Course at Michigan State University.
- Wilma Nash Bradley, Ed.D.      A.B., Bluffton College; M.S., University of Toledo.  
Education. *Major Professor:* M.S. Smith, Professor.  
*Thesis:* An Analysis of Selected Cognitive and Non-Cognitive Variables Relating to a Student's Persistence in a Major Area of Study at Michigan State University.
- John William Cassell, Jr., Ph.D.      B.A., Washington Missionary College; M.A., University of Maryland.  
Education. *Major Professor:* K. T. Hereford, Associate Professor.  
*Thesis:* An Investigation of the Relationship of Educationally High and Low Aspiring High School Seniors to Selected Attitudinal and Ecological Variables.
- Billy Dean Cook, Ph.D.      B.S., Oklahoma State University; M.S., Michigan State University.  
Physics and Astronomy. *Major Professor:* E. A. Hiedemann, Professor.  
*Thesis:* A Direct Method of Determining Ultrasonic Wave Forms by Light Diffraction.
- Caridad A. Delena, Ph.D.      A.B., University of the Phillipines; M.A., Sacramento State College.  
Education. *Major Professor:* H. W. Sundwall, Associate Professor.  
*Thesis:* The Relationship of Organic Illness to Personality Integration.



**SCHOOL FOR ADVANCED GRADUATE STUDIES**

**CANDIDATES FOR THE DOCTORAL DEGREES (Continued)**

- Albert Binkley Dickas, Ph.D.      B.A., M.S., Miami University.  
Geology. *Major Professor:* J. H. Fisher, Associate Professor.  
*Thesis:* A Regional Stratigraphic Study of the Tuscaloosa Group and the Associated Upper Cretaceous Rocks of the Central Mississippi Embayment.
- Marvin Goodman, Ph.D.      B.A., B.S.W., M.S.W., University of Toronto.  
Education. *Major Professor:* W. W. Farquhar, Professor.  
*Thesis:* A Pilot Study of the Relationship Between Degree of Expressed Self-Acceptance and Interspousal Need Structure in the Mate Selection Process.
- James Gillespie Hendrick III, Ph.D. B.S., Alabama Polytechnic Institute; M.S., Auburn University  
Agricultural Engineering. *Major Professor:* W. F. Buchele, Associate Professor.  
*Thesis:* Application of Tillage Energy by Vibration.
- Abigail Kyzer Hobson, Ph.D.      B.S., Tuskegee Institute; M.S., University of Chicago.  
Education. *Major Professor:* M. W. Vossbrink, Associate Professor.  
*Thesis:* A Study of Values of Rural and Urban Negro Families in Alabama with Implications for Homemaking Education.
- Ronald Arthur Hoppe, Ph.D.      A.B., University of Michigan; M.A., Michigan State University.  
Psychology. *Major Professor:* M. Rokeach, Professor.  
*Thesis:* Individual and Group Memorization and Problem Solving: A Test of the Lorge Solomon Pobling of Abilities Model.
- Manuel Gordon Howat, Ph.D.      B.S.A., University of Saskatchewan; M.S., University of Alberta; M.S., University of Wisconsin.  
Psychology. *Major Professor:* D. M. Johnson, Professor.  
*Thesis:* Transfer in Production and Judgment with Input Information Varied.



SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREES (Continued)

- Victor Alan Jones, Ph.D.      B.S., M.S., Michigan State University.  
Agricultural Engineering. *Major Professor:* C. W. Hall, Professor.  
*Thesis:* Steam Injection for Globule Size Reduction in an Emulsion.
- Roger Hugh Kariger, Ph.D.      B.A., DePauw University; M.S., Indiana University.  
Education. *Major Professor:* D. J. Leu, Professor.  
*Thesis:* The Relationship of Lane Grouping to the Socioeconomic Status of the Parents of Seventh-Grade Pupils in Three Junior High Schools.
- Richard Albert Keppeler, Ph.D.      B.S., M.S., Michigan State University.  
Agricultural Engineering. *Major Professor:* C. W. Hall, Professor.  
*Thesis:* Thermal Properties of Some Frozen Sugar Solutions.
- Chan Kyu Kim, Ph.D.      B.S., Tri-State College; M.S., Michigan State University.  
Electrical Engineering. *Major Professor:* H. E. Koenig, Professor.  
*Thesis:* Optimization of Discrete State Linear Multivariable Systems.
- Alan Henry Kirton, Ph.D.      B.Sc., M.Sc., Massey Agricultural College.  
Food Science. *Major Professor:* A. M. Pearson, Professor.  
*Thesis:* The Potassium, Sodium and Cesium Content of Animals and the Relationship to Composition.
- May Koo, Ph.D.      B.A., New Asia College; M.A., Michigan State University.  
Education. *Major Professor:* H. W. Sundwall, Associate Professor.  
*Thesis:* American Students' Contacts With and Attitudes Toward Foreign Students.
- Angelo Anthony Lacognata, Ph.D.      B.A., University of Buffalo; M.A., University of Rochester.  
Sociology and Anthropology. *Major Professor:* W. B. Brookover, Professor.  
*Thesis:* Role Expectations of Faculty and Students: A Social Psychological Analysis.

SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREES (Continued)

- Paul Arthur Law, Ph.D.      B.S., Lowell Technological Institute.  
Chemistry. *Major Professor:* H. Hart, Professor.  
*Thesis:* Solvolysis, Rearrangement and Hydrogenolysis of Tri-Cyclo-  
pylcarbinol Derivatives.
- James Augustus Gardner Lindner, B.S., M.Ed., Pennsylvania State University.  
Ed.D.      Education. *Major Professor:* C. A. Blackman, Associate Professor.  
*Thesis:* Systematic Phonics—Sight Vocabulary Building Compared with  
Additional Directed Readings in a Basal Reader: The Relative  
Effectiveness of Two Methods of Teaching Remedial Reading  
Classes.
- Patton Lockwood, Ph.D.      B.A., Oberlin College; M.Ed., University of Virginia.  
Speech. *Major Professor:* J. A. Walker, Associate Professor.  
*Thesis:* The Plays of William Motter Inge: 1948-1960.
- William McLagan Malcolm, Ph.D.      B.A., Williams College; M.S., Michigan State University.  
Botany and Plant Pathology. *Major Professor:* J. E. Cantlon, Professor.  
*Thesis:* The Root—Parasitism of *Castilleja Coccinea*.
- Roy Edward McTarnaghan, Ed.D.      B.S., State Teachers College; M.A., Ohio State University.  
Education. *Major Professor:* F. G. Parker, Associate Professor.  
*Thesis:* An Analysis of Certain Personality Factors and Academic Success  
in the State University College, Geneseo, New York.
- James D. Milne, Ph.D.      B.S., University of Minnesota; M.A., Long Beach State College.  
Education. *Major Professor:* H. J. Dillon, Professor.  
*Thesis:* A Survey and Analysis of Native Alaskan Adult Education Pro-  
grams.
- Glenn Alan Niemeyer, Ph.D.      B.A., Calvin College; M.A., Michigan State University.  
History. *Major Professor:* M. A. Kuhn, Professor.  
*Thesis:* The Automotive Career of Ransom E. Olds.

SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREES (Continued)

- Walter Edmond Page, Ph.D.      B.A., Union College; M.S., University of Nebraska.  
 Zoology. *Major Professor:* R. A. Fennell, Professor.  
*Thesis:* A Histochemical and Biochemical Investigation of the Esterases  
 in the Brain and Liver Tissues of the Developing Chick.
- Dinkar Shankar Rane, Ph.D.      B.E., University of Bombay; M.S., Michigan State University.  
 Electrical Engineering. *Major Professor:* H. E. Koenig, Professor.  
*Thesis:* On the Numerical Solution of Linear and Nonlinear System  
 Models.
- Kim Rodner, Ph.D.      B.A., M.A., Michigan State University.  
 Sociology and Anthropology. *Major Professor:* J. B. McKee, Professor.  
*Thesis:* Social Change and the Unified Science Perspective: The Re-  
 source Control Movement in Industrial Society.
- Norman Richard Roobol, Ph.D.      B.S., Calvin College.  
 Chemistry. *Major Professor:* H. Hart, Professor.  
*Thesis:* Rates and Mechanism of Dipositive Carbonium Ion Hydrolysis.
- Jack McBride Ryder, Ph.D.      B.S., M.A., Michigan State University.  
 Education. *Major Professor:* W. H. Roe, Professor.  
*Thesis:* A Study of Personnel Processes and Policies with Relation to  
 Utilization of Teachers from the Negro Minority Group in Certain  
 Michigan Public School Districts.
- A. Coskun Samli, Ph.D.      B.A., Higher School of Economics and Commerce of Istanbul; M.B.A.,  
 Michigan State University.  
 Business Administration. *Major Professor:* S. C. Hollander, Professor.  
*Thesis:* Comparative Patterns of Business Failures in Michigan and the  
 United States.
- Burton Wister Scott, Ph.D.      B.S., University of Colorado.  
 Physics and Astronomy. *Major Professor:* F. J. Blatt, Professor.  
*Thesis:* Transport Properties of Dilute Copper Alloys.

SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREES (Continued)

- C. Joseph Sequin, Ph.D. B.S., Fordham University; M.A., Boston University.  
Economics. *Major Professor*: W. Adams, Professor.  
*Thesis*: The Transportation of New Motor Vehicles: An Analysis of Industry and Commission Performance.
- Elwood William Speckmann, Jr., B.S., Rutgers University; M.S., Michigan State University.  
Ph.D. Poultry Science—Animal Nutrition. *Major Professor*: R. K. Ringer, Associate Professor.  
*Thesis*: Cardiovascular Parameters and Static Elastic Moduli of the Turkey Aorta.
- Virgil Bernard Sterling, Ph.D. B.S., General Beadle State Teachers College; M.A., University of South Dakota.  
Education. *Major Professor*: G. A. Miller, Associate Professor.  
*Thesis*: A Pilot Factor Analytic Study of Academic Motivation and Achievement Levels in Eleventh-Grade Males.
- Theodore Sulzberg, Ph.D. B.S., City College of New York; M.A., Brooklyn College.  
Chemistry. *Major Professor*: H. Hart, Professor.  
*Thesis*: Dicarboxonium Ions from Bis-Aryl Carbinols.
- Richard Warren Thompson, Ph.D. B.A., M.A., Michigan State University.  
Psychology. *Major Professor*: M. R. Denny, Professor.  
*Thesis*: Transfer of Training of an Avoidance Response Between Normal and Functionally Decoritcate States.
- Wynn Franklin Updyke, Ph.D. B.A., Seattle Pacific College; M.S., University of Washington.  
Education. *Major Professor*: W. D. Van Huss, Professor.  
*Thesis*: A Study of the Effects of Exercise of Various Frequencies and Intensities upon the Swimming Ability and Physiological Well-Being of Specific Pathogen Free Male Albino Rats.



SCHOOL FOR ADVANCED GRADUATE STUDIES

CANDIDATES FOR THE DOCTORAL DEGREES (Continued)

- Jehn Richard Verduin, Jr., Ph.D. B.S., St. Josephs College; M.A., Michigan State University.  
Education. *Major Professor:* R. A. Edelfelt, Associate Professor.  
*Thesis:* An Evaluation of a Cooperative Approach to Curriculum Change.
- Philip Alan Wright, Ph.D. B.S., Macdonald College; M.S., Michigan State University.  
Agricultural Economics. *Major Professor:* G. L. Johnson, Professor.  
*Thesis:* An Economic Analysis of Potato Yield on Certain Ontario Mineral  
Soils in Controlled Fertilizer Experiments, 1954-1956.
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GRADUATES AS OF AUGUST 31, 1962

DIPLOMA FOR ADVANCED GRADUATE STUDY

- Carl S. Dinehart A.B., Huntington College; M.A., Michigan State University.  
Education. *Major Professor:* K. T. Hereford, Associate Professor.
- Eugene Arthur York B.S., M.A., Michigan State University.  
Education. *Major Professor:* W. E. Roe, Professor.

DOCTORAL DEGREES

- Kendall Alfred Adams, Ph.D. B.S., Oregon State; M.A., Michigan State University.  
Marketing. *Major Professor:* E. A. Brand, Professor.  
*Thesis:* The Acceptance and Use of Special Services by Independent  
Food Retailers.
- Jack Oland Anderson, Ed.D. B.S., A.M., Central Michigan University.  
Education. *Major Professor:* C. A. Blackman, Associate Professor.  
*Thesis:* A Study of the Relationships Among Academic Motivation, Level  
of Aspiration, Level of Expectation, and Gain or Loss in Achievement  
in a College Reading Improvement Situation.



**SCHOOL FOR ADVANCED GRADUATE STUDIES**

**DOCTORAL DEGREES (Continued)**

- Paul Henry Appel, Ed.D.      B.S., M.Ed., Wayne State University.  
Education. *Major Professor:* C. M. Campbell, Professor.  
*Thesis:* A Study of Selected Administrative Principles as They May Be Applied in Certain School Districts in the State of Michigan.
- John Joseph Azukas, Ph.D.      B.S., University of Illinois; M.S., Michigan State University.  
Microbiology and Public Health. *Major Professor:* R. N. Costilow, Professor.  
*Thesis:* Sorbic Acid Inhibition of Enolase from Yeast and Lactic Acid Bacteria.
- Louis Alan Barker, Ph.D.      B.S., M.A., Michigan State University.  
Education. *Major Professor:* H. W. Sundwall, Associate Professor.  
*Thesis:* A Comparison of Student Organization Leaders and Non-Joiners in Academic Abilities Personality Characteristics.
- Austin Francis Bates, Ed.D.      B.S., Hillsdale College; M.A., University of Michigan.  
Education. *Major Professor:* W. H. Roe, Professor.  
*Thesis:* Availability and Dissemination of Research in School Business Affairs.
- John Fredrick Benner, Ph.D.      B.S., Alma College.  
Chemistry. *Major Professor:* G. L. Goerner, Associate Professor.  
*Thesis:* Nitrogen Mustards Related to Hexestrol and Diethylstilbestrol.
- Triloki Nath Bhargava, Ph.D.      B.S., M.S., University of Lucknow.  
Statistics. *Major Professor:* L. Katz, Professor.  
*Thesis:* A Stochastic Model for Time Changes in a Binary Dyadic Relation With Application to Group Dynamics.
- Richard Hummel Bittner, Ph.D.      B.S., M.S., Iowa State College.  
Education. *Major Professor:* H. P. Sweany, Associate Professor.  
*Thesis:* Identification of Selected Characteristics Associated with Continued Student Enrollment in Vocational Agriculture.

## DOCTORAL DEGREES (Continued)

- Margaret Mary Bott, Ph.D.      B.A., St. John's University; M.S., Hunter College.  
Education. *Major Professor:* B. Steffle, Professor.  
*Thesis:* Feminine Identity and the Educational-Vocational Plans and Preferences of Adolescent Girls Attending Parochial Schools: A Pilot Study.
- Rafael Antonio Bravo, Ph.D.      B.S., National University, Columbia, South America; M.S., Michigan State University.  
Farm Crops. *Major Professor:* E. H. Everson, Associate Professor.  
*Thesis:* Cytogenetic Evaluation of A Wheat-Rye Derivative for Resistance to Leaf Rust.
- Darwin Jerome Casler, D.B.A.      B.A., M.B.A., Michigan State University.  
Accounting. *Major Professor:* C. J. Gaa, Professor.  
*Thesis:* The Evolution of the Code of Professional Ethics of the American Institute of Certified Public Accountants.
- Dae Hong Chang, Ph.D.      B.A., M.A., Michigan State University.  
Social Science. *Major Professor:* K. W. So, Professor.  
*Thesis:* The Historical Development of the Korean Socio-Family System Since 1392—A Legalistic Interpretation.
- Cheng-lung Chen, Ph.D.      B.S., National Taiwan University; M.S., Michigan State University.  
Agricultural Engineering. *Major Professor:* E. H. Kidder, Associate Professor.  
*Thesis:* An Analysis of Overland Flow.
- Sylvia Ciernick, Ph.D.      B.S., Michigan State University; M.A., Western State University.  
Education. *Major Professor:* W. H. Roe, Professor.  
*Thesis:* The Development of a Conceptual Schema for Analyzing the School Public Relations Process.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES (Continued)

- Dana G. Dalrymple, Ph.D. B.S., M.S., Cornell University.  
Agricultural Economics. *Major Professor:* C. C. Dennis, Assistant Professor.  
*Thesis:* Economic Aspects of Apple Marketing in the United States.
- William Emerson Drake, Ph.D. B.S., M.A., Michigan State University.  
Education. *Major Professor:* H. P. Sweany, Associate Professor.  
*Thesis:* Perceptions of the Vocational Agriculture Teachers' Professional Role in Michigan.
- Richard Charles Dubes, Ph.D. B.S., University of Illinois; M.S., Michigan State University.  
Electrical Engineering. *Major Professor:* H. E. Koenig, Professor.  
*Thesis:* A Mathematical Analysis of the Effects of Component Failures on System Performance.
- Delwyn Arthur Dyer, Ph.D. B.A., M.A., Michigan State University.  
Sociology and Anthropology. *Major Professor:* E.A. Moe, Professor.  
*Thesis:* Self Attitude, Role Saliency, and Role Internalization and Their Effect on 4-H Leader Tenure and Effectiveness.
- Sterling Grant Ellsworth, Ph.D. B.A., M.A., Brigham Young University.  
Education. *Major Professor:* H. A. Grater, Associate Professor.  
*Thesis:* The Consistency of Counselor Feeling Verbalization In and Outside the Counselor Client Relationship.
- Mahmud Mohammad El-Okby, Ph.D. A.B., Cairo University; M.A., Ain Shams University, Cairo.  
Communication Arts. *Major Professor:* M. S. MacLean, Jr., Professor.  
*Thesis:* Verbal Cues of Organizational Information in Message Decoding.
- Selwyn Norman Fidelman, Ph.D. A.B., M.A., New York University.  
Psychology. *Major Professor:* M. R. Denny, Professor.  
*Thesis:* The Relationship Between Open and Closed Belief Systems and Accuracy and Affect in Interpersonal Perception.

## DOCTORAL DEGREES (Continued)

- Larry L. Foster, Ph.D.      B.S., Western Illinois University; M.S., University of Wisconsin.  
Education. *Major Professor:* J. X. Jamrich, Professor.  
*Thesis:* A Descriptive Study, by Residency and Sex, of the Freshman Students for 1958 at Michigan State University on Selected Characteristics.
- Fillmore Freeman, Ph.D.      B.S., Central State College.  
Chemistry. *Major Professor:* H. Hard, Professor.  
*Thesis:* Preparation and Reactions of Some Tetracyanocyclopropanes.
- Robert Lee Gonderman, Ph.D.      B.S., Washington State College; M.S., University of Illinois.  
Horticulture. *Major Professor:* D. P. Watson, Professor.  
*Thesis:* Objective Measurement of Hardiness in Azalea.
- Buddy Gene Harmon, Ph.D.      B.A., Purdue University.  
Animal Husbandry. *Major Professor:* J. A. Hoefer, Professor.  
*Thesis:* The Relationship of Specific Nutrient Deficiencies to Antibody Response in Swine. I. Vitamin A., II. Pantothenic Acid, Pyridoxine and Riboflavin.
- Eugene Harrison, Ph.D.      B.S., M.S., Texas A & M.  
Mechanical Engineering. *Major Professor:* F. S. Tse, Associate Professor.  
*Thesis:* Minimum Energy Space Rendezvous.
- Roy Dean Hill, Ph.D.      B.S., University of Utah; M.S., New Mexico State University.  
Chemistry. *Major Professor:* R. N. Hammer, Associate Professor.  
*Thesis:* A Spectrophotometric Study of Acid-Base Indicators in Liquid Ammonia.
- Robert Gordon Holloway, Ph.D.      B.S., M.S., University of Oregon.  
Sociology and Anthropology. *Major Professor:* J. W. Artis, Professor.  
*Thesis:* Systemic Linkage, Influence and Control in a Hospital Decision-Making Structure: A Cross-Validation Study.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES (Continued)

- Chester Alvin Hornbeck, Ph.D. B.S., M.S., Michigan State University.  
Microbiology and Public Health. *Major Professor:* C. L. San Clemente, Professor.  
*Thesis:* The Use of Stilbestrol, Lysozyme, and Polyvalent Vaccines in the Control of Experimental Staphylococcal Infections in Laboratory Animals.
- Clinton Joyce Jesser, Ph.D. B.A., Sioux Falls College; M.S., South Dakota State College.  
Sociology and Anthropology. *Major Professor:* J. W. Artis, Professor.  
*Thesis:* An Exploration into Factors Affecting Social Participation of Professionals in Rural Areas.
- Eduardo Jimenez, Ph.D. B.S.A., M.S., University of Florida.  
Botany and Plant Pathology. *Major Professor:* R. S. Bandurski, Professor.  
*Thesis:* Studies on Photosynthesis Part I: Biosynthesis of Sucrose from Glycolate. Part II: Bicarbonate Utilization by Washed Algae.
- Horace Clifford King, Ph.D. M.A., Michigan State University.  
Education. *Major Professor:* T. L. Sterns, Professor.  
*Thesis:* An Analysis of the Educational-Administrative-Cultural Aspects of the Relationship Between the University of the Ryukyus and Michigan State University.
- James Irvin Kirkwood, Ph.D. B.S., M.S., Kansas State University.  
Soil Science. *Major Professor:* A. R. Wolcott, Associate Professor.  
*Thesis:* Effects of Fumigant Chemicals on Microbial Activity and Nitrogen Transformation and on Crop Response in Organic Soil.
- Jack Knoll, Ph.D. B.S., M.S., Michigan State University.  
Physiology. *Major Professor:* P. O. Fromm, Associate Professor.  
*Thesis:* Sodium and Chromate Ion Movement Across Isolated Frog and Fish Skins With the Effect of Magnetic Fields Upon Such Movement.



## DOCTORAL DEGREES (Continued)

- Gerald Lawrence Kochanny, Jr., B.S., University of Michigan; M.S., Bradley University.  
Ph.D. Chemistry. *Major Professor:* A Timnick, Associate Professor.  
*Thesis:* Radiation Chemistry Studies of Water as Related to the Initial Linear Energy Transfer of 11-23 Mev Protons.
- Stephen Orne Krebs, Ed.D. B.B.A.D., M.A., University of Michigan.  
Education. *Major Professor:* V. H. Knoll, Professor.  
*Thesis:* An Investigation of Transfer Effects of Given and Derived Coding Principles at Three Levels of Mental Ability.
- Robert James Kroll, Ph.D. B.S., M.S., University of Cincinnati.  
Applied Mechanics. *Major Professor:* C. A. Tatro, Associate Professor.  
*Thesis:* Stress Waves in Test Specimens Due to Simulated Acoustic Emissions.
- Robert Cardon Lamb, Ph.D. B.S., Utah State Agricultural College; M.S., Michigan State University.  
Dairy. *Major Professor:* L. D. McGilliard, Professor.  
*Thesis:* Usefulness of Part Records in Estimating the Breeding Values of Dairy Cattle.
- Kenneth Jay Lessler, Ph.D. B.A., M.A., San Jose State College.  
Psychology. *Major Professor:* C. L. Winder, Professor.  
*Thesis:* The Anatomical and Cultural Dimensions of Sexual Symbols.
- Hinrich Dethlef Robert Martens, B.S., M.S., University of Rochester.  
Ph.D. Mechanical Engineering. *Major Professor:* F. S. Tse, Associate Professor.  
*Thesis:* Mathematical Models for the Time-Domain Study of Hydraulic Systems.
- Keith Henry McDonald, Ph.D. B.A., Ripon College; M.A., Marquette University.  
Education. *Major Professor:* W. W. Farquhar, Professor.  
*Thesis:* An Investigation into the Relationship of Socio-Economic Status to an Objective Measure of Motivation—The Michigan M-Scales.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES (Continued)

- Thomas Richard Mulvaney, Ph.D. B.S., M.S., Michigan State University.  
Food Science. *Major Professor:* I. J. Pflug, Professor.  
*Thesis:* Corrosion of Mild Steel in Alkaline Sequestering Agent Solutions.
- Hilding Elwood Nelson, Ed.D. B.A., University of California; M.S., University of Southern California.  
Education. *Major Professor:* J. A. Fuzak, Professor.  
*Thesis:* Occupational Self-Images of Teachers: A Study of the Occupational Involvements and Work Role Orientations of Michigan Industrial Education Teachers.
- Charles Samuel Nicoll, Ph.D. B.S., M.S., Michigan State University.  
Physiology. *Major Professor:* J. Meites, Professor.  
*Thesis:* Studies on Prolactin Secretion *In Vitro*.
- John James Paterson, Ed.D. B.S., M.Ed., University of Idaho.  
Education. *Major Professor:* D. R. Krathwohl, Professor.  
*Thesis:* An Evaluation of the Sequential Method of Psychological Testing.
- John Wilson Porter, Ph.D. A.B., Albion College,; M.A., Michigan State University.  
Education. *Major Professor:* Buford Steffire, Professor.  
*Thesis:* The Development of an Inventory to Determine the Problems of Foreign Students.
- David Bruce Pryor, Ph.D. B.A., M.S., University of Michigan.  
Psychology. *Major Professor:* M. R. Denny, Professor.  
*Thesis:* Regression in the Service of the Ego: Psychosexual Development and Ego Functions.
- Gerald Raymond Rasmussen, Ed.D. B.S., M.A., Michigan State University.  
Education. *Major Professor:* C. M. Campbell, Professor.  
*Thesis:* A Study of Administrative Organization for the Improvement of Instruction in the Public Schools of the State of Michigan, Exclusive of the Upper Peninsula and the City of Detroit.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES (Continued)

- S. Arthur Reed, Ph.D. B.S., M.A., Kent State University.  
Zoology. *Major Professor:* R. A. Fennell, Professor.  
*Thesis:* Biochemical and Histochemical Studies of Esterases in Liver, Kidney and Spleen of Young and Adult Mice, Strain C57 BL.
- Richard Dale Reimer, Ph.D. B.A., Bethel College; M.S., Kansas State.  
Economics. *Major Professor:* A. Y. Koo, Professor.  
*Thesis:* The U. S. Demand for Imports of Materials, 1923-1960.
- Elliott Hilton Rosenberg, Ph.D. B. Econ., University of South Africa; M.A., Michigan State University.  
Psychology. *Major Professor:* B. L. Kell, Professor.  
*Thesis:* Correlates of a Concept of Therapeutic Sensitivity.
- Hansjakob Rothenbacher, Ph.D. Tierarzt, Dr. Med. Vet., Ludwig-Maximilians University, Munich, Bavaria; M.S., Michigan State University.  
Veterinary Pathology. *Major Professor:* C. C. Morrill, Professor.  
*Thesis:* Clinicopathological Changes in Cattle, Sheep and Rabbits Caused By a North Dakota Bovine Viral Isolant.
- Hugo Emil Siehr, Ed.D. B.S., University of Wisconsin; M.Ed., Marquette University.  
Education. *Major Professor:* K. T. Hereford, Associate Professor.  
*Thesis:* Problems of New Faculty Members in Community Colleges.
- Karl M. Skousen, Ph.D. B.S., M.S., Brigham Young University.  
Business Administration. *Major Professor:* C. J. Gaa, Professor.  
*Thesis:* Adaptability of Electronic Processing to Bank Data Processing.
- Howard Denison Stowe, Ph.D. B.S., University of Massachusetts; M.S., D.V.M., Michigan State University.  
Veterinary Pathology. *Major Professor:* C. K. Whitehair, Professor.  
*Thesis:* Pathology of Tocopherol-Deficient Mink and Swine.

SCHOOL FOR ADVANCED GRADUATE STUDIES

DOCTORAL DEGREES (Continued)

- Edward Joseph Stry, Ed.D.      B.A., Canisuis College; Ed.M., University of Buffalo.  
Education. *Major Professor:* M. S. Smith, Professor.  
*Thesis:* A Study of the Differential Provisions for the Terminal and Transfer Students in Selected Michigan Community Colleges.
- George Clark Summerfield, Ph.D.      B.S., Michigan State University.  
Physics. *Major Professor:* D. Lichtenberg, Associate Professor.  
*Thesis:* Heavy Mesons and Their Effects on the NN and NN Scattering Amplitudes.
- Jimmy B. Throneberry, Ph.D.      B.A., David Lipscomb College; M.A., George Peabody College.  
Zoology. *Major Professor:* J. A. Shaver, Professor.  
*Thesis:* Studies on the Differentiation of Hemoglobin in *Rana Pipiens*.
- Louis Frederick Vander Linde, Ph.D.      A.B., M.A., Western Michigan University.  
Education. *Major Professor:* C. C. Collier, Associate Professor.  
*Thesis:* An Experimental Study of the Effect of the Direct Study of Quantitative Vocabulary on the Arithmetic Problem Solving Ability of Fifth-Grade Pupils.
- Henry James Watts, Ph.D.      B.A., M.A., University of Buffalo.  
Sociology and Anthropology. *Major Professor:* J. W. Artis, Professor.  
*Thesis:* Methodological Problems in the Measurement of Values.
- Lewis Elton Weeks, Ph.D.      B.A., Michigan State University; A.M., University of Michigan.  
Communication Arts. *Major Professor:* W. B. Emery, Professor.  
*Thesis:* Order Out of Chaos: The Formative Years of American Broadcasting, 1920-1927.
- Osborn Oliver Wells, Ph.D.      B.S., M.F., New York College of Forestry.  
Forestry. *Major Professor:* J. W. Wright, Associate Professor.  
*Thesis:* Geographic Variation in Ponderosa Pine (*Pinus Ponderosa* Dougl. ex Laws).



DOCTORAL DEGREES (Continued)

- David Leroy Westby, Ph.D.      B.S., M.A., University of Wisconsin.  
Sociology and Anthropology. *Major Professor:* J. W. Artis, Professor.  
*Thesis:* A Study of Status Arrangements in Three Michigan Communities.
- Richard Alvin Westmaas, Ph.D.      B.A., Calvin College; M.A., Michigan State University.  
Psychology. *Major Professor:* C. L. Winder, Professor.  
*Thesis:* Management of Hostility and Verbal Functioning in College Males.
- Norbert Francis Wiley, Ph.D.      B.S., Loyola; M.A., Notre Dame.  
Sociology and Anthropology. *Major Professor:* J. W. Artis, Professor.  
*Thesis:* Class and Local Politics in Three Michigan Communities.
- Donald Monroe Wilkins, Ph.D.      B.A., Southwestern at Memphis; M.S., North Carolina State.  
Psychology. *Major Professor:* A. G. Dietze, Professor.  
*Thesis:* Factor Analysis and Multiple Scalogram Analysis: A Logical and Empirical Comparison.
- Clarence Murray Williams, Ed.D.      B.M., Western Michigan College; M.A., Michigan State University.  
Education. *Major Professor:* W. W. Farquhar, Professor.  
*Thesis:* An Exploratory Investigation of the Effects of Class Size and Scheduling Related to Achievement and Motivational Outcomes.
- Richard John Wiseman, Ph.D.      B.S., M.S., Springfield College.  
Psychology. *Major Professor:* J. Reyher, Assistant Professor.  
*Thesis:* The Rorschach as a Stimulus for Hypnotic Dreams: A Study of Unconscious Processes.
- Lewis Chapman Wood, Ed.D.      B.S., Central Michigan University; M.A., University of Michigan.  
Education. *Major Professor:* W. H. Roe, Professor.  
*Thesis:* A Study of Tort Liability in Michigan School Districts.



