The Fall Commencement of Michigan State University
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 1894, 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, rounded 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 wording of the degree determines the color of the velvet of the hood. For example, a Master of Science in Engineering would be signified by golden yellow (science) instead of the orange of engineering. A Bachelor of Engineering would wear the orange of engineering.

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         |
| Forestry                      | Russet        |
| COLLEGE OF BUSINESS AND PUBLIC SERVICE | Maroon |
| COLLEGE OF COMMUNICATION ARTS | Royal Blue    |
| COLLEGE OF EDUCATION          | Light Blue    |
| COLLEGE OF ENGINEERING        | Orange        |
| COLLEGE OF HOME ECONOMICS     | Black         |
| COLLEGE OF SCIENCE AND ARTS   | White         |
| Arts                          | Pink          |
| Music                         | Golden Yellow |
| Science                       | Gray          |
| COLLEGE OF VETERINARY MEDICINE |              |
ORDER OF CEREMONIES

PROCSSIONAL
Hail, America! .................................................. George Drumm
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 Pilgrim's pride;
From ev'ry mountain side
Let freedom ring!

INVOCATION
The Reverend Wallace Robertson
Pastor, The Peoples Church, East Lansing, Michigan

ADDRESS
"EXCELLENCE IS A PERSONAL QUALITY"
Arthur Lewis Knoblauch, Ed.D.
President, Western Illinois University

CONFERRING OF DEGREES
President, Michigan State University

ALMA MATER .................................................... Traynor
M.S.U. we love thy shadows
When twilight silence falls,
Flushing deep and softly paling
O'er ivy covered halls.
Beneath the pines we'll gather
To give our faith so true,
Sing our love for Alma Mater
And thy praises, M.S.U.

BENEDICTION
The Reverend Mr. Robertson

RECESSIONAL
Marche Noble ....................................................... Charles Bach

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.
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, Chairman
The Honorable C. Allen Harlan
The Honorable Warren M. Huff
The Honorable Frank Merriman
The Honorable Don Stevens
The Honorable Jan B. Vanderploeg

The Honorable Lynn M. Bartlett, Ex Officio
John A. Hannah, Ex Officio, President
James W. Miller, Secretary
Philip J. May, Treasurer

Pinconning
Detroit
Plymouth
Deckerville
Okemos
North Muskegon
Lansing
East Lansing
East Lansing
East Lansing
As one of the leading land-grant universities and the first agricultural college in the nation, Michigan State University provides a technical, practical and cultural education for its student body, in addition to extensive research and extension services to the people of Michigan.

Now in its 106th year, Michigan State University has grown from three buildings and six faculty members to one of the ten largest universities in the nation. It has approximately 2,000 staff members engaged in teaching, research and public service, 325 permanent and 136 temporary buildings, and 4,250 acres of land, including 900 acres in the campus area proper.

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 eight colleges—Agriculture, Business and Public Service, Communication Arts, Education, Engineering, Home Economics, Science and Arts, Veterinary Medicine—and the School for Advanced Graduate Studies, and offers approximately 150 different courses of study at the undergraduate and 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 his 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.

Michigan State University continually strives to expand its service to the people of the state through the Agricultural Experiment Station, the Cooperative Extension Service and the Continuing Education Service. The Agricultural Experiment Station conducts research on campus and at five off-campus substations. Through the Michigan Cooperative Extension Service, more than 333,000 families are reached with technical information on agriculture, homemaking and the 4-H Club program. The field staff, located in every county, extends M.S.U.’s campus into every township in Michigan. During the 1959-60 year, the Continuing Education Service reached more than 100,000 persons in programs conducted both on campus and in local communities.

Today, more than 20,000 students from Michigan and other states and from nations all over the world are attending the University at East Lansing—about 11,000 of whom are housed on the campus proper. With about 85 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, Michigan State University has proved its worth to the people of the State of Michigan, paying dividends many times the appropriation for its maintenance each year by the state and national governments. Noted for its democratic and friendly spirit, the student body harmonizes with the University faculty to make Michigan State University a first-class educational institution.
COLLEGE OF AGRICULTURE

The candidates will be presented by DEAN THOMAS K. COWDEN

DEGREE OF BACHELOR OF SCIENCE

- Brian Leroy Bennett  Forestry
- Carl Leroy Bennett, Jr.  Fisheries and Wildlife
- Douglas Fredrick Boynton  Animal Husbandry
- Edward Michael Buszta  Park Management
- Emery Gibbs Cushing  Packaging Technology
- Richard Dean Erickson  Agricultural Mechanics
- James Steven Fralish  Forestry
- Lloyd William Gauld  Fisheries and Wildlife
- George Christian Gilbert  Animal Husbandry
- Martin Francis Hartmann  Dairy Manufacturing
- Kenneth Francis Kasmarek  Fisheries and Wildlife
- Bruce Robert Knisel  Agricultural Economics
- Edward Arthur Koza  Lumber and Building Materials Merchandising
- Ludwig H. Lange  Forestry
- Kenneth Jack Linton  Fisheries and Wildlife
- Jack Merwin Manning  Residential Building
- Francis Thomas McIntyre  Agricultural Economics
- Willard Lee McLeod  Animal Husbandry
- Michael David Moore  Forestry
- Patrick John Muldoon  Dairy Manufacturing
- Warren Ray Nellis  Residential Building
- Steve Randolph Plevel  Forestry
- James Cameron Ramsay  Pomology and Vegetable Production
- Granville Ivan Rhodus  Forestry
- James LeRoy Richardson  Animal Husbandry
- William Richard Robb  Pomology and Vegetable Production
- Leroy John Ruotanen  Fisheries and Wildlife
- Jerry Lee Russ  Packaging
- Michael John Shine  Agricultural Economics
- Gary Frank Siegmeier  Floriculture
- Jay Leonard Smith  Residential Building
- Jack Arwin Sneller  Packaging
- Edward John Szymanski  Packaging
- Harold Louis Thibodeau  Floriculture
- William Rex Ufer  Farm Crops
- John Michael Voss  Agricultural Mechanics
- Douglas Conn Weir  Residential Building
- Walter James Westcott  Mobile Homes

*With Honor
COLLEGE OF AGRICULTURE

DEGREES RECOMMENDED JOINTLY WITH THE COLLEGE OF EDUCATION

BACHELOR OF SCIENCE

- Carroll Lawrence Hart  Agricultural Education
- Alfred W. Harwood  Agricultural Education
- *Llewellyn Henry Lehman  Agricultural Education
- Bertie A. McNeilly  Agricultural Education
- John J. Niederer  Agricultural Education
- Orville N. Kabat  Agricultural Education
- Theodore Anthony Sprangel  Agricultural Education

DEGREE OF MASTER OF SCIENCE

Lee Don Adami  Dairy
Fred Wilk Bakker-Arkema  Agricultural Engineering
- Robert Lester Bradley, Jr.  Dairy
Robert Edward Brown  Fisheries and Wildlife
- Wilfrid Keith Bryant  Agricultural Economics
- Allen Frederick Butchbaker  Agricultural Engineering
- Cheng-lung Chen  Agricultural Engineering
- Stuart Otis Denslow  Resource Development
- Morton S. Fuchs  Agricultural Chemistry
- Miguel Hernandez-Cardenas  Food Science
- Gad Hetroni  Agricultural Engineering
- Archibald Roosevelt Johnson  Resource Development
- James William Merna  Fisheries and Wildlife
- Weldon James Montgomery  Forestry
- Robert Gary Moss  Forestry
- Antonio M. Pinchinat  Farm Crops
- Jack Vincent Stong  Agricultural Engineering
- Shiro Takei  Agricultural Economics
- Chaturbhuj B. Tewary  Agricultural Mechanics
- John Kendall Trocke  Agricultural Extension

*With Honor
COLLEGE
OF
ENGINEERING

The candidates will be presented by DEAN JOHN D. RYDER

DEGREE OF BACHELOR OF SCIENCE

~ *Joseph Marvin Bender Agricultural Engineering ~ Harry Richard Kenyon Civil Engineering

~ Richard Edward Brohl Civil Engineering ~ Dale Earnest Marshall Agricultural Engineering

~ Thomas Frank Clarke Electrical Engineering ~ George Ronald Martin Agricultural Engineering

~ John William Gunst Civil Engineering ~ Robert James Nelson, Jr. Electrical Engineering

~ Gordon C. Johnson Civil Engineering ~ David Philip Slater Metallurgical Engineering

~ Rex Allen Johnson Civil Engineering ~ William Lewis Wells Civil Engineering

~ George Weldon Keller Agricultural Engineering

DEGREE OF MASTER OF SCIENCE

~ Ralph Griese Mechanical Engineering ~ David Lowell Nelson Electrical Engineering

~ Floyd Jay Kreuze Electrical Engineering ~ Robert Thomas Sedgwick Applied Mechanics

*With Honor
COLLEGE OF HOME ECONOMICS

The candidates will be presented by DEAN THELMA E. PORTER

DEGREE OF BACHELOR OF SCIENCE

Eppie L. Bruckner  Retailing
Linda Sue Costello  Retailing
Phyllis Charlene Farmer  General Home Economics
Nancy Jo Fife  General Home Economics
Marianne McKenzie  Home Economics Extension
Anne Curtis Mitchell  General Home Economics
Janet Marie Olsen  Household Equipment and Home Management
†Ruth Miller Reinoehl  General Home Economics
Victoria Rudy  Home Furnishings
Virginia Ruth Van Popering  General Home Economics
Sharon Louise Zukosky  General Home Economics

DEGREES RECOMMENDED JOINTLY WITH THE COLLEGE OF EDUCATION

BACHELOR OF SCIENCE

Alice June Bartels  Home Economics Teaching
*Sharon Dee Shepherd Brittain  Home Economics Teaching
Patricia Dorlene Connell  Child Development and Teaching
Janet Dee Cooper  Home Economics Teaching
Kristine Ann Moffit Dany  Home Economics Teaching
Ann Morie Engle  Child Development and Teaching
Caryl Barnett Ferguson  Child Development and Teaching
Carolyn Mary Fillmore  Home Economics Teaching
Joanne Kay Green  Home Economics Teaching
Sharon Lee Hall  Home Economics Teaching
Julie Ann Doyen Kollar  Child Development and Teaching
Patricia A. Kuenzli  Home Economics Teaching
Carol Elizabeth Rathbun  Home Economics Teaching
Sandra Lou Rye  Home Economics Teaching
Cora Jean Stoker  Home Economics Teaching
Mary Louise Stonecliffe  Home Economics Teaching
Lana Theota Williamson  Home Economics Teaching

†With High Honor
*With Honor
COLLEGE OF HOME ECONOMICS

DEGREE OF MASTER OF ARTS

- Marilyn Jean Downer  Home Management  - Eleanor Murial Sanford  Textiles and Clothing
- Norma Magnus Gilmore  Nutrition

DEGREE OF MASTER OF SCIENCE

- LeKim Luy Chua  Nutrition  - Anne Elizabeth Field  General Home Economics

COLLEGE OF VETERINARY MEDICINE

The candidates will be presented by DEAN WILLIS W. ARMISTEAD

DEGREE OF BACHELOR OF SCIENCE—HONORS COLLEGE

- *Richard I. Harris  Veterinary Medicine

DEGREE OF BACHELOR OF SCIENCE

- Ezra Berman  Veterinary Medicine  †Allen Samuel Nestle  Veterinary Medicine
- Dominic Paul Munafo  Veterinary Medicine

DEGREE OF MASTER OF SCIENCE

- Rexford Eugene Carrow  Anatomy  - Jean Lorraine Juday  Anatomy
- Donald Lynn Croghan  Microbiology and Public Health

*With Honor
†With High Honor
COLLEGE
OF
SCIENCE AND ARTS

The candidates will be presented by DEAN LLOYD C. FERGUSON

DEGREE OF BACHELOR OF ARTS – HONORS COLLEGE

~ †John Thomas Goodman Psychology ~ †Susan Paula Powers English
~ *Katherine Lee Harman Mathematics ~ †Lawrence Edmund Sneden Social Science Divisional
~ *Gilbert Patrick Nolan Art ~ *Helen Wilson Vogel History

DEGREE OF BACHELOR OF SCIENCE – HONORS COLLEGE

~ †Ezekiel Olabisi Akrinrimisi Botany and Plant Pathology ~ †Joseph Cooley Ferrar Mathematics
~ †Laurence James Boucher Chemistry ~ *Sharon Lilyan Kron Mathematics

DEGREE OF BACHELOR OF ARTS

~ Dale Richard Adams Social Science Divisional ~ John Joseph Clancy Psychology
~ †Thomas Douglas Anderson, Jr. Social Science Divisional ~ Belinda Anne Cohen Social Science Divisional
~ Holly Katrine Arnell English ~ Ardys Belle Cox Psychology
~ Thurlo Acton Box Social Science Divisional ~ *Margaret Virginia Cuthbertson Social Science Divisional
~ Patrick Francis Burke Social Science Divisional ~ Jon Tsuyoshi Doi Art
~ Joellen Harriet Butters Social Science Divisional ~ Jo Ann Euper Music Therapy
~ Juliet Greathouse Cain History ~ Ann Marie Ewart Social Science Divisional
~ Alexander William Carel Social Science Divisional ~ George Edward Fellows Social Science Divisional
~ Lewis Richard Carella Social Science Divisional ~ Phillip Isaal Forgash Social Science Divisional
~ Donald David Chezik Psychology ~ James Edwards Frierson Social Science Divisional
~ Hay Edward Goss Social Science Divisional

*With Honor
†With High Honor
DEGREE OF BACHELOR OF ARTS (Continued)

- Melvin Dean Gruhn  Social Science Divisional
- Leonard Clark Guneau  Social Science Divisional
- Thomas James Harper  Philosophy
- Dianne M. Harrold  Social Science Divisional

Stephen Smith Hautala  Social Science Divisional
- Walter Franklin Herdich, Jr.  Social Science Divisional
- Arthur Hunter Hills  Social Science Divisional
- Robert G. Horvath  Psychology
- Jack Loren Jackson  History
- Clark Eugene Johnson  Social Science Divisional
- Thomas Phillip Kellogg  Psychology
- Karen Joy Kelly  Social Science Divisional
- Irving Jack Kerner  Psychology
- Stephen Thomas Kerns  Social Science Divisional
- Clifford Forrest Kinney  Psychology
- Sara Phy Kinney  Sociology and Anthropology
- David William Koester  Psychology
- Peter W. Lowe  Chemistry
- Lawrence James Mauzerall  Psychology
- Susan Lee McConnell  Social Science Divisional
- Martin Ernest McGuire  Social Science Divisional
- Arthur Ronald Messman  Mathematics
- John Edward Morgan  Humanities
- Richard Vosseler Morgan  Social Science Divisional

- Allen John Nelson  Social Science Divisional
- Philip Peter Nielsen  Humanities
- Thomas James Nordberg  Social Science Divisional
- William John Parsons  Social Science Divisional
- Donald Alfred Picmann  Social Science Divisional
- William Jacob Pieper  Psychology
- Lawrence Milford Potter  Psychology

William Tatem Reeves  History
- Gail Wildes Roberts  Psychology
- Jerry N. Ruonavaara  Social Science Divisional
- Paul Scheid  Music
- Carl W. Schneider  Music Therapy
- John Laurence Schultz  Social Science Divisional
- Rochelle N. Seger  Psychology
- Frederick Wells Shepard  Art
- Robert Bruce Short  Sociology and Anthropology
- Karen Lee Silcox  Social Science Divisional
- John Edwin Smith  Social Science Divisional
- Anthony Stavrides  Social Science Divisional
- Gordon D. Steckle  Art
- George Allison Steinman  Foreign Studies
- William Henry Sweetnam  Art
- Kay Masters Taracks  Psychology
- Sandra Joanne Van Doren  Social Science Divisional
- Robert Lee Vogelsang II  History
- Duane Roy Vogelsburg  Philosophy
- Judith Ann Waggoner  History

*With Honor
†With High Honor
DEGREES RECOMMENDED JOINTLY WITH THE COLLEGE OF EDUCATION

BACHELOR OF ARTS

~ William Martin Anderson  History  ~ Dorothy Diane Offerman Grebe  Art Education
~ Shirley Jean Andrews  Social Science Divisional  ~ Roberta Jean Haynor  Social Science Divisional
  Theodore Vincent Anspaugh  Mathematics  ~ Charles Stanley Jones  History
~ Elizabeth Gaiffe Becktold  Art Education  ~ Kenneth Clark Kubilins  History
~ Robert Usher Boughton  Art Education  ~ Donald Keith LaGuire  History
~ David William Briston  History  ~ John Robert Matthews  Chemistry
~ Douglas Harold Brockhaus  History  ~ Cynthia Dodd Nichols  Language and Literature Divisional
~ Roy Ivan Buxton  History  Nancy Le Robertson  History
~ Robert Thorpe Carter  History  ~ Sandra Le Ruthruff  English
~ Patricia Annette Chapman  English  ~ Donald Kenneth Sackett  Mathematics
~ Mirko William DiCarlo  Chemistry  ~ Martha Elizabeth Sawyer  History
~ Deanna Elizabeth Dowde  Social Science Divisional  ~ Harold Leonard Silk  Social Science Divisional
~ David Alfred Duquette, Jr.  Art Education  ~ Patricia Ann Sloan  Social Science Divisional
~ Charles Horton Eardley  History  *Barbara Ann Smith  History
~ Denise Constance Floyd  Art Education  ~ Arlene Ruth Cranmer Stover  English
~ Donna Marie Frohriep  English  ~ Ronald John Strong  Mathematics
~ Ellen Jane Frommhold  Art Education  ~ Foster Martin Van Vliet, Jr.  History
~ William Charles Golis  Mathematics  ~ Wynifred Lowell Wagner  History

DEGREE OF BACHELOR OF FINE ARTS

John Milton Metheany III  Art

*With Honor
DEGREE OF BACHELOR OF SCIENCE

- Wilma Grace Brady  
  Nursing
- Melvin C. Christofferson  
  Geology
- Gerald Andrew Geile  
  Mathematics
- David Dalton Gruber  
  Biological Science
- Merilyn Mona Hutches  
  Nursing
- John Denniston Kent  
  Mathematics
- Charles Edward Kerman  
  Geology
- Donna Lee Kirkbride  
  Nursing
- Dale Henry Koch  
  Mathematical and Physical Science Divisional
- Jon David Lake  
  Geology
- Ferris Tindal Laraway  
  Zoology
- Gwendolyn Lee Lewis  
  Nursing
- Frederick Edward Mauer  
  Chemistry
- Robert Alan Drake McGarva  
  Zoology
- Donald Warren Merritt  
  Geology

DEGREES RECOMMENDED JOINTLY WITH THE COLLEGE OF EDUCATION

BACHELOR OF SCIENCE

- Douglas Frank Benn  
  Mathematics
- Paul Eugene Eckert  
  Mathematics
- Robert David Harmon, Jr.  
  Mathematics
- John William Kelley  
  Mathematics
- Betty Ann Landsburg  
  Biological Science Divisional

- Alan Bruce Miller  Microbiology and Public Health
- Roger Warner Noyce  Geology
- Felix Pozzi  Mathematics
- Ann Stacia Drilling Reban  Nursing
- Ernest Sodalia Roberts  Microbiology and Public Health
- Peter John Scarnato  Biological Science Divisional
- Edward Allen Schmidt  Microbiology and Public Health
- John Carl Schneider, Jr.  Zoology
- Sydney Allen Schroeder  Physics and Astronomy
- W. Bingham Slack  Mathematics
- Herman Carl Strobel  Mathematics
- Samuel Teleki  Microbiology and Public Health
- Ethel Harriet VandeBunte  Nursing
- Richard Ira Whittemore  Zoology

- Norman Lewis Lyons  Mathematics
- Robert L. Meyer  Mathematical and Physical Science Divisional
- Forrest Eldon Miller  Mathematics
- Emil Novak  Mathematical and Physical Science Divisional
- Linda Jo Shewell  Zoology
- Douglas Wendell Smith  Biological Science Divisional

*With Honor
\[With High Honor\]
COLLEGE OF SCIENCE AND ARTS

BACHELOR OF MUSIC

- Emerson George Dentel
- Paul Ronald Grischke
- Arthur Earl Riedel
- Sue Elizabeth Tucker

DEGREE OF MASTER OF ARTS

James Bernard Alfredson Philosophy
- Josef Horak History
- Robert George Kayel Mathematics
- Donald Earl Keesey English
- John Elof Lundstrom, Jr. Art
- Cheryl Joanne Normington Psychology
- Marilyn Grace Slear Ruesink Music Education
- Rolf Heinz Kurt Schulze Sociology and Anthropology
- Md. Afsar Uddin Sociology and Anthropology

DEGREE OF MASTER OF SCIENCE

- Mary Emma Barboni Chemistry
- Donald Milo Beale Zoology
- David Gunter Browning Physics and Astronomy
- William Earl Hutchinson Chemistry
- Patricia Josephine Casey Chemistry
- Wilbur Reed Langford Physics and Astronomy
- James Arthur Clark Statistics
- Mary Jean Long Chemistry
- Robert Allan Davis Botany and Plant Pathology
- Bartin Turner Smith Physics and Astronomy
- Lawrence Eugene Day Microbiology and Public Health
- James Clare Vanden Berge Zoology
- Raymond Payjun Dong Mathematics
- Charles Henry Wells II Physiology and Pharmacology

*With Honor
The candidates will be presented by DEAN ALFRED L. SEELYE

DEGREE OF BACHELOR OF ARTS

John Donald Babb  Economics
John William Baughman  Accounting
Larry Zane Benjamin  Accounting
Edward Rolsten Bliss  Accounting
Richard Jess Bordeaux  Hotel and Club Management
Richard James Bowersox  Political Science
Thomas LeRoi Braman  General Marketing
Robert Melzo Britton  General Marketing
Robert John Brockmiller  Production Administration
Edmund Reginald Bronicki  Hotel and Club Management
Michael Ellsworth Bryant  Production Administration
Ronald Wayne Buecking  Hotel and Club Management
Richard Hays Byrd  Personnel Administration
Robert Lee Campbell II  Financial Administration
Lucinda Yvonne Cargill  Social Work
Lewis Richard Caveney  Accounting
Jerry Harold Chadwick  Insurance
Larry Lee Cole  Accounting
Eugene Benjamin Collard  General Marketing
Gordon Edward Connell  Personnel Administration
Jack Dickson Cook  Accounting
Douglas Dee Coppens  General Marketing
D. Brant Cotterman  Production Administration
Robert Earl Cronheim  Economics
James R. Davidson  Retail Administration
John Stanley Davies  Accounting
Americo Dean  Production Administration
Roger Louis Diegel  Banking Administration
William E. Durell, Jr.  Personnel Administration
William Charles Ealy  Accounting
Gorton Morgan Evans II  General Marketing
John Preston Fleser  General Business Administration
Gerald Thomas Forton  Restaurant Management
Phillip John Fowler  Accounting
Michael John Fritz  Economics
Donald Scott Fuller  Transportation Administration
Raymond Joseph Gerdes  Accounting

†With High Honor

Harry Freeman Jr.  Econ
Edmund G. Dyal
DEGREE OF BACHELOR OF ARTS (Continued)

Bruce Edward Gilmore Economics
- William Elmer Haas Purchasing Administration
- Richard Curtis Halseth General Marketing
- Richard L. D. Hammond General Business Administration
- Edward Reuben Hancock Economics
- Robert Henry Harr Restaurant Management
- Roger Ferris Hathaway, Jr. Accounting
- John M. Horne Political Science
- Donald Henry Huber General Marketing
- James Edward Hunter General Marketing
  Eugene Joseph Iacomini Restaurant Management
- Daniel Lawrence Jacob General Business Administration
- James Roland Kearns Hotel and Club Management
- Rex David Keister, Jr. Political Science
- David Michael Kelly Economics
- Daniel Allen Kempf Economics
  Bill Leroy Kennedy General Business Administration
- Ronald Basil Kennedy Production Administration
  Gerald Gene Kettring General Business Administration
- Carol Anne King Restaurant Management
- Robert Ernest LaChapelle General Business Administration
  - Joseph Thomas Langlais, Jr. Hotel and Club Management
  - Paul Lewis Lantz Economics
  - Phillip David Leach Production Administration
  - Richard Lew Lotz Hotel and Club Management
  - Wayne Albert Magnan Personnel Administration
  - Robert Neil McGivern General Marketing
  - Michael Edward McGowan Food Distribution Administration
  - John Edward McNeelley Economics
  - Wendell Charles Mellberg Personnel Administration
  - Oscar Bernard Michael Food Distribution Administration
  - Robert Bartholic Miller Personnel Administration
  - Stephen Harr Miller General Marketing
  - John Michael Mills Economics
  - Ronald Arthur Minth General Business Administration
  - Harold Theodore Mohrlok Accounting
  - James A. Monroe Accounting
  - Gale Thomas Moore Transportation Administration
  - Richard Gowans Morrison General Business Administration
  - Levant Mulnix III Economics

*With Honor
†With High Honor
DEGREE OF BACHELOR OF ARTS (Continued)

- Gerald James Murawski  
  Accounting

- Robert Larry Newsome  
  General Marketing

- Wanda Lee Nickerson  
  Institutional and Hospital Management

- Wayne Edward Olsen  
  General Business Administration

- Peter Onderchain  
  Economics

- John Watters Oosting  
  Economics

- George Edward Pawlanta, Jr.  
  Accounting

- John Wilber Poyhonen  
  Personnel Administration

- Thomas Anthony Raguso  
  Economics

- Thomas William Riley  
  Accounting

- Jon Howard Robb  
  Personnel Administration

- Theodore K. Robinson  
  Economics

- Richard Frederick Ruhl  
  General Marketing

- Louis Henry Schimmel, Jr.  
  Financial Administration

- Bruce Arthur Schuman  
  General Marketing

- Frederick James Schwab  
  Accounting

- Stewart Peter Sigourney  
  Accounting

- Walter William Squire  
  General Marketing

- Franz Willison Stevens  
  Production Administration

- William Raymond Stewart  
  General Marketing

- Alvin Jay Stiefel  
  Food Distribution Administration

- Norman Terry Swayne  
  Accounting

- Alfred Arden Tanck  
  Food Distribution Administration

- James Frederick Thiede  
  General Business Administration

- John Peter Trinklein  
  Economics

- David Andrew Turner  
  General Business Administration

- John Anthony Vanna  
  Accounting

- Timothy John Vellmure  
  Restaurant Management

- James Francis Verplank  
  Production Administration

- Harry Thomas Voige  
  Political Science

- William Albert Waggoner  
  Purchasing Administration

- Allan George Wallace  
  Hotel and Club Administration

- James Arthur Weirauch  
  Economics

- John William Wheeler  
  General Marketing

- Francis George Wickstrom  
  General Marketing

- Glenn Carter Wideman  
  Political Science

- David Dale Willey  
  Personnel Administration

- Charles Lawrence Young, Jr.  
  Restaurant Management

- William Arthur Young  
  Economics

- Joseph Arthur Zambrano  
  Political Science

*With Honor
COLLEGE OF BUSINESS AND PUBLIC SERVICE
DEGREES RECOMMENDED JOINTLY WITH THE COLLEGE OF EDUCATION

BACHELOR OF ARTS

- Vivian Blanche Bloom  Business Education
- Sandra Lee Bristol  Business Education
- Joanna Hileman Coultes  Business Education
- Gordon Burdette Freeman  Business Education
- Naomi Ruth Lande  Business Education
- Gerald Gordon Potter  Business Education
- Margery Ann Ward  Business Education
- Joyce Arlene Wilson  Business Education

DEGREE OF BACHELOR OF SCIENCE

- Thomas Everett Borton  Urban Planning
- Gwendolyn Gail Bourassa  Police Administration and Public Safety
- Jeremy Ward Chapman  Police Administration and Public Safety
- Robert Ervin Dittman  Police Administration and Public Safety
- Wayne Lee Ensing  Police Administration and Public Safety
- Robert Charles Fager  Landscape Architecture
- William Ian Ferrier  Police Administration and Public Safety
- Leslie Pyewell Flounders, Jr.  Police Administration and Public Safety
- Axel Ingvar Franzon  Police Administration and Public Safety
- Mohammed Jamil Hanifi  Police Administration and Public Safety
- Edward John Hansen  Police Administration and Public Safety
- John P. Hopkins  Police Administration and Public Safety
- Robert John Horan  Police Administration and Public Safety
- Cheryl Dee Hurd  Police Administration and Public Safety
- Donald Bernard Johnson  Police Administration and Public Safety
- Walter Ralph Johnson  Police Administration and Public Safety
- Richard Arlen Kilby  Urban Planning
- James Wilford Kitchen  Police Administration and Public Safety
- Brian Edward Langley  Police Administration and Public Safety
- Leroy Kenneth Lehner  Landscape Architecture
- William W. Lovett  Police Administration and Public Safety
- John Vernon Momberg  Police Administration and Public Safety
- James Ronald Opperman  Police Administration and Public Safety
- Robert Frederick Piatt  Police Administration and Public Safety

*With Honor
COLLEGE OF BUSINESS AND PUBLIC SERVICE

DEGREE OF BACHELOR OF SCIENCE (Continued)

- Stephen Richard Ripps  
  *Police Administration and Public Safety*

- Alice Annette Skranz  
  *Police Administration and Public Safety*

- Werner George Weitzel  
  *Police Administration and Public Safety*

- Roger Calvin Wilson  
  *Police Administration and Public Safety*

- Charles Frank Young  
  *Police Administration and Public Safety*

DEGREE OF MASTER OF ARTS

- Charles A. Baker  
  *Business Administration*

- Emory Scott Derr  
  *Business Administration*

- James McAlden Kelly  
  *Hotel, Restaurant and Institutional Management*

- Darrell Koon  
  *Business Education*

- Oral Eugene Parks  
  *Political Science*

- William Hamilton Parks  
  *Financial Administration*

- James Michael Rhadigan  
  *Economics*

- David Robinette Shelby  
  *Food Distribution*

- Harry Kenneth Show  
  *Business Administration*

- Thomas Norman Tarby  
  *Economics*

- David I. Verway  
  *Economics*

DEGREE OF MASTER OF BUSINESS ADMINISTRATION

- Otto Walther R. Beiser  
  *Business Administration*  
  *Marketing*

- Klaus Otto Brudemeier  
  *Accounting*

- Donald Regis Connelly  
  *Accounting*

- Salvatore Dominic Costella  
  *Accounting*

- Burton Royce Eckhardt  
  *Accounting*

- William Joseph Gilbert  
  *Accounting*

- Gene Lewis Knapp  
  *Personnel and Human Relations*

- Theodore Bruce Martin  
  *Transportation*

- Alcidio do Sousa Prado  
  *Personnel and Human Relations*

- Lawrence Silverman  
  *Marketing*
The candidates will be presented by DEAN CLIFFORD E. ERICKSON

DEGREE OF BACHELOR OF ARTS—Elementary Education

-*Martha Gilchrist Andrews  *Carolyn Mae Marolf
Elizabeth Ann Aubertin  *Charles Morden McEachin
Geraldine Margaret Bales  Nancy Diane McKenzie
Sally Wilson Berry  *Jean Ward McKinnon
Lois Merrilee Brown  Joan Ann Elizabeth Messner
Sheldon Grey Butson  *Audrey Elizabeth Miller
*Donna Mary Carrigan  Susan Jane Overmyer
Constance Lee Coe  Jean Ruth Wolfe Owen
Alice Anne Davis  *Marcia Ann Petrie
Jeannine Madeleine Day  Janet Agnes Porter
Suzanne A. DeJong  Joyce Meta Prange
Saundra Sargent Donahue  Clyde Beiber Rue
Susan A. Flathau  *Yolanda Zupko Shemely
Nicholyn Marie Folsom  Sandra Anne Stahl
Christine Messmore Gilling  Deanna Sue Strolle
Sharon Ann Hohman  Mary Anna Summers
Nancy Carole Horsley  Barbara Bancroft Symanski
Eleanor D. Howland  Marjorie Ann Townsend
Susan Kellogg  Marilyn Robb Vyverberg
Mary Beth Larson  Donald L. Ware
Janet Philip Little  Jeanne Elise Warner
*Georgiann Marks  *Anne Woodworth

DEGREE OF BACHELOR OF SCIENCE

- Patricia Allworth  Physical Education  David Kenneth Clum  Industrial Arts
- A. Roger Belter  Industrial Arts  *Sandra Jean Currie  Physical Education
- Michael Bruce Brown  Physical Education  Raymond Harry Durant  Industrial Arts
DEGREE OF BACHELOR OF SCIENCE (Continued)

<table>
<thead>
<tr>
<th>Name</th>
<th>Major</th>
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<th>Major</th>
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<tbody>
<tr>
<td>D. Bruce Galland</td>
<td><em>Industrial Arts</em></td>
<td>Sandra Hoover Parks</td>
<td><em>Physical Education</em></td>
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<tr>
<td>Jack Arthur Geary</td>
<td><em>Physical Education</em></td>
<td>Robert E. Pierson</td>
<td><em>Industrial Arts</em></td>
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<td>John Gelmisi</td>
<td><em>Physical Education</em></td>
<td>Richard Raymond Radatz</td>
<td><em>Physical Education</em></td>
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<tr>
<td>Douglas Lee Hansen</td>
<td><em>Industrial Arts</em></td>
<td>Harvey Louis Shultz</td>
<td><em>Community Recreation</em></td>
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<td>Cecil B. G. Heron</td>
<td><em>Physical Education</em></td>
<td>Richard Boyd Smith</td>
<td><em>Physical Education</em></td>
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<tr>
<td>Irving Henry Kananen</td>
<td><em>Physical Education</em></td>
<td>Donald Thomas Thornton</td>
<td><em>Physical Education</em></td>
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<td>Frank Jr. Maddalozzo</td>
<td><em>Physical Education</em></td>
<td>Harry Wayne Turak</td>
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<tr>
<td>Stanley Frank Myk</td>
<td><em>Industrial Arts</em></td>
<td>Jon Nicholas Whorley</td>
<td><em>Industrial Arts</em></td>
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</tbody>
</table>

DEGREE OF MASTER OF ARTS—Education

<table>
<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Donald Van Adams</td>
<td>Marian Esther Daniel</td>
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<td>David Joel Anderson</td>
<td>Lawrence Raymond Daniels</td>
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<td>Dorothy Eileen Bell</td>
<td>Nancy Ann Doneth</td>
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<td>Bonnie Nitz Boldt</td>
<td>Roy Douglas Doonan</td>
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<td>Marcia Joan Bottomley</td>
<td>Verdon R. Dunckel</td>
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<td>Robert Bower</td>
<td>John Phillip Fekete</td>
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<td>John Brissaud</td>
<td>Robert Clark Ferguson</td>
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<td>Robert Windsor Brown</td>
<td>Robert Raymond Frye</td>
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<td>Helen Blanche Burns</td>
<td>Lamoine Lovisa Gardner</td>
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<td>Frances Zelma Caldwell</td>
<td>Helen Frances Garn</td>
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<td>John Grunow Call</td>
<td>Carolyn Jean Gibfried</td>
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<td>Richard Earl Claflin</td>
<td>Vera Gierman</td>
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<td>Vera Maude Clark</td>
<td>Jeanne Adelaide Greer</td>
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<td>Marie Elizabeth Colando</td>
<td>Floyd Bernard Haremski</td>
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<td>Robert Lyman Colestock</td>
<td>Horace Joseph Harte</td>
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<td>Constance Elaine Collins</td>
<td>Mary Good Heuvelhorst</td>
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<td>Dorothy Brown Copeland</td>
<td>Robert Wendell Hills</td>
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<tr>
<td>Lewis D'Alessio</td>
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</tr>
</tbody>
</table>

*With Honor
†With High Honor
COLLEGE OF EDUCATION

DEGREE OF MASTER OF ARTS—Education (Continued)

- John Richard Hudson
- Robert Lewis Kaminskis
- Herald A. Kiekover
- Marie Riley Kish
- James Donald Knotts
- William Martin Larkin
- Jean Carolyn Leach
- Jerrie Bascome McGill
- Elizabeth Dickson Miller
- Janice Bedford Nagele
- Merritt Chandler Nauts, Jr.
- Ann Pappas
- Hi Kyung Park
- Aubrey Radcliffe
- James William Rice

- Rosetta S. Sanders
- Asuncion Adevoso Santiago
- Richard Bland Smith
- Robert Wayne Stace
- Roger David Stouffer
- Margaret Greer Swift
- Walter Lee Thomas
- Margaretta Tuttle
- Mel Leroy Vaara
- Anneatha Erlene Wade
- Phillip A. Wall
- George Robert Weaver
- Jack L. Westover
- Joan Jean Wight
- Carol B. Covert Zelmer
The candidates will be presented by FRED S. SIEBERT

DEGREE OF BACHELOR OF ARTS

Donald Robert Adlam
  Television, Radio and Film

Arnold Angert
  General Communication Arts

William Charles Callahan, Jr.
  Journalism

Arthur Bernard Dowd, Jr.
  Advertising

†Theodore R. Ervin
  Journalism

Albert Alfred Ferdi
  Advertising

John David Fish
  Television, Radio and Film

Robert Ervin Franklin
  Television, Radio and Film

Susan Freeman
  Speech

Grant Brian Keefer
  Television, Radio and Film

Joseph G. Kiss
  Television, Radio and Film

William Henry McIntosh
  General Communication Arts

Joseph Malcolm McNeil
  Advertising

Larry Paul Miller
  Journalism

Gregory James Neiswonder
  Television, Radio and Film

Sidney Louis Scutt
  Television, Radio and Film

Roger Fowler Sherman
  Advertising

Joan Louise Shook
  Television, Radio and Film

James Russell Turner
  Advertising

†Janet Piper Voss
  Journalism

Robert Dale Walsh
  Journalism

Kay Mary Zemke
  Television, Radio and Film

DEGREES RECOMMENDED JOINTLY WITH THE COLLEGE OF EDUCATION

BACHELOR OF ARTS

Margaret Cecile DiPiazza
  Speech

Garwood Philip Hansen
  Speech

Marilyn Ann Steegstra
  Speech

Jacqueline Dell Strandberg
  Speech

*Cynthia Ann Sweet
  Speech

DEGREE OF MASTER OF ARTS

William Lewis Broecker
  Television, Radio and Film

Eleanor Harger Burgess
  Speech

C. Milan Gruehr
  Speech

Robert Louis Hammond
  Speech

Chosei Kiyoshi Kabira
  Television, Radio and Film

*Walter Alexander Littlefield
  Speech

*With Honor
†With High Honor
The candidates will be presented by DEAN MILTON E. MUELDER

DIPLOMA FOR ADVANCED GRADUATE STUDY

- Kenneth Truman Beagle
  B.A., Western Michigan University; M.A., University of Michigan.
  Education. **Major Professor:** W. H. Roe, Professor.

- David Lloyd Lawton
  B.A., Hiram College; M.A., Western Reserve University.
  English. **Major Professor:** W. Heist, Associate Professor.

- Donald Medley Topping
  A.B., M.A., University of Kentucky.
  English. **Major Professor:** A. H. Jaffe, Associate Professor.

DEGREE OF DOCTOR OF PHILOSOPHY

- John Frances Alexander
  B.S., M.A., Notre Dame.
  Education. **Major Professor:** W. D. VanHuss, Professor.
  **Thesis:** An Evaluation of Thirteen Brands of Football Helmets on the Basis of Certain Impact Measures.

- Bruce Herbert Barnes
  B.S., M.S., Michigan State University.
  Mathematics. **Major Professor:** G. P. Weeg, Associate Professor.
  **Thesis:** Structure of Automata.

- Charles Richard Barr
  B.A., North Central College; M.S., Michigan State University.
  Chemistry. **Major Professor:** R. U. Byerrum, Professor.
  **Thesis:** The Synthesis and Biological Activity of Some Allyl, Acetic Acid and Ethyl Acetate Ethers of Fluorene and Fluorenone.

- Frank Henry Blackington, III
  B.Ed., Keene Teachers College; M.A., Boston University.
  Education. **Major Professor:** Z. G. Barnett, Associate Professor.
  **Thesis:** A Philosophical Analysis of the Construct "Life Adjustment" and Its Implications for Education.
SCHOOL FOR ADVANCED GRADUATE STUDIES

DEGREE OF DOCTOR OF PHILOSOPHY (Continued)

- Donald John Bowersox
  B.A., M.A., Michigan State University.
  Business Administration. Major Professor: D. A. Taylor, Professor.
  Thesis: Evaluation of Alternative Solutions to the Food Distribution Center Location Problem.

- Glenn Stuart Bulmer
  B.S., Michigan State University.
  Botany and Plant Pathology. Major Professor: E. S. Beneke, Professor.

- Francisco A. Cardenas
  Ingeniero Agronomo, Escuela Superior de Agricultura “Antonio Narro” Mexico; M.S., Colorado A. & M. College.
  Farm Crops. Major Professor: M. W. Adams, Associate Professor.
  Thesis: Genetic Septems for Reaction in Beans (Phaseolus Vulgaris) to Infection by Three Races of Colletotrichum Lindemuthianum.

- Raymond Joseph Clausman
  B.A., Butler University; M.A., University of Louisville.
  Psychology. Major Professor: A. I. Rabin, Professor.

- Irwin Howard Cohen
  A.B., Brooklyn College; M.A., City College of New York.
  Psychology. Major Professor: M. Rokeach, Professor.
  Thesis: Adaptive Regression, Dogmatism, and Creativity.

- John Thomas Conlon
  B.B.A., University of Massachusetts; M.A., University of Connecticut.
  Economics. Major Professor: C. Killingsworth, Professor.

- Walter Dale DeVries
  B.A., Hope College; M.A., Michigan State University.
  Political Science. Major Professor: L. C. Ferguson, Professor.
SCHOOL FOR ADVANCED GRADUATE STUDIES

DEGREE OF DOCTOR OF PHILOSOPHY (Continued)

Charlotte Marie Dienhart  
B.S., College of St. Catherine; M.S., State University of Iowa.  
Anatomy. Major Professor: J. Bell, Associate Professor.  
Thesis: Morphological Effects of Dietary-Induced Hyperparathyroidism on the Parathyroids, Kidneys and Tibias of Rats.

Roland Hinkley Ebel  
A.B., Wheaton College; M.A., Northwestern University.  
Political Science. Major Professor: J. LaPalombara, Professor.  
Thesis: The Role of the Professional Staff in American Political Parties.

Husein M. Elmosa  
B.S., Kansas State College; M.S.C., University of Nebraska.  
Entomology. Major Professor: H. L. King, Professor.  
Thesis: Toxicological Investigations of the Onion Maggot Hylemya antiqua (Meig.).

Richard Wayne Fish  
B.S., Iowa State College.  
Chemistry. Major Professor: H. Hart, Professor.  

Desmond Ford  
B.A., Pacific Union College; M.A., Potomac University.  
Speech. Major Professor: K. G. Hance, Professor.  

Wesley Lamar Harris  
B.S., M.S., University of Georgia.  
Agricultural Engineering. Major Professor: W. F. Buchele, Associate Professor.  
Thesis: Relationship of Mean Stress and Volumetric Strain in the Soil Under Dynamic Loading.

L. James Harvey  
B.A., Hope College; M.A., Michigan State University.  
Education. Major Professor: J. Jordan, Assistant Professor.  
Thesis: A Study of the Guidance Resources of Students in High Schools Affiliated with the National Union of Christian Schools in Michigan and Illinois.
SCHOOL FOR ADVANCED GRADUATE STUDIES

DEGREE OF DOCTOR OF PHILOSOPHY (Continued)

- Dean Lawrence Haynes
  B.S., M.S., Michigan State University.
  Entomology. *Major Professor:* J. W. Butcher, Associate Professor.

- Theodore Matthew Hoersch
  B.S., M.S., Michigan State University.
  Thesis: The Effect of Environmental Light and Temperature on the Thyroid Secretion Rate and Other Physiological Processes in Sheep.

- William Frank Hunter
  B.S., M.A., Ball State Teachers College.
  Education. *Major Professor:* J. Jordan, Assistant Professor.
  Thesis: An Exploratory Analysis of Space Perception in Congenitally Blind and Sighted Individuals.

- A. K. M. Nural Islam
  B.S., Rajshahi Government College, E. Pakistan; M.S., Dacca University, E. Pakistan.
  Botany and Plant Pathology. *Major Professor:* G. W. Prescott, Professor.

- David Joseph Karl
  B.S., Providence College.
  Chemistry. *Major Professor:* J. L. Dye, Associate Professor.

- Kundan Lall Kinra
  B.A., Bihar Agricultural College; M.S., Michigan State University.
  Soil Science. *Major Professor:* H. D. Foth, Professor.
  Thesis: Effects of Seeding Rate, Row Spacing, Rates and Methods of Application of Fertilizer Materials and Soil Moisture on Small Grain Performance.
DEGREE OF DOCTOR OF PHILOSOPHY (Continued)

Robert E. Kittredge

B.A., New York State College for Teachers; M.A., Michigan State University.

Education. Major Professor: B. Steffire, Professor.

Thesis: Investigation of Differences in Occupational Preferences, Stereotypic Thinking, and Psychological Needs Among Undergraduate Women Students in Selected Curricular Areas.

Lowell Nelson Lewis

B.S., Pennsylvania State University; M.S., Michigan State University.

Horticulture. Major Professor: A. L. Kenworthy, Professor.

Thesis: Studies on the Nutrition of Bartlett Pear Trees (Pyrus Communis L.) and Fire Blight (Erwinia Amylovora, Burr.).

Ulric Svante Lindholm

B.S., M.S., Michigan State University.

Applied Mechanics. Major Professor: C. A. Tatro, Associate Professor.

Thesis: An Experimental Determination of the Stress-Strain Rate Relations of Several Metals.

James Charles Lingoes

A.B., University of California.

Psychology. Major Professor: L. L. McQuitty, Professor.


Mahmoug Makarechian

D.V.M., University of Teheran; M.S., Michigan State University.

Animal Husbandry. Major Professor: W. T. Magee, Associate Professor.

Thesis: Factors Affecting the Yearling Productive Traits in Beef Cattle.

Yasuo Masai

B.A., Tokyo Higher Normal School; M.S., Tokyo Bunrika University.

Geography. Major Professor: A. K. Philbrick, Associate Professor.


Allen J. Matherne

B.A., S.E. Louisiana College; M.B.A. Indiana University.

Education. Major Professor: H. Dillon, Professor.

Thesis: An Analysis and Evaluation of an Experimental Program Designed to Increase the Level of Economic Understanding Among Adults.
DEGREE OF DOCTOR OF PHILOSOPHY (Continued)

~ Charles G. Mead
B.A., University of Minnesota; M.S., Michigan State University.
Agricultural Chemistry. Major Professor: A. S. Fox, Associate Professor.
Thesis: Isolation and Characterization of Drosophila Melanogaster
Deoxyribonucleic Acid.

~ Raman Gopinath Menon
B.S., Poona University, India; M.S., Michigan State University.
Soil Science. Major Professor: K. Lawton, Professor.

~ Rudolph Charles Muska
B.A., M.A., University of Minnesota.
Philosophy. Major Professor: L. K. Zerby, Professor.
Thesis: A Comparison of Antithetical Religious Conceptions in Kirkegaard
and Spinoza.

~ Earl Abraham Myers
B.S., M.S., Pennsylvania State University.
Agricultural Engineering. Major Professor: E. H. Kidder, Associate Pro-
fessor.
Thesis: Hydrologic Analysis of a Small Agricultural Watershed.

~ Richard Carroll Nelson
B.S., St. Olaf College; M.A., University of Houston.
Education. Major Professor: H. J. Montoye, Professor.
Thesis: An Investigation of Various Measures Used in Football Helmet
Evaluation.

~ Mansour Nicknejad
B.S., Teheran University; M.S., Michigan State University.
Farm Crops. Major Professor: F. C. Elliot, Professor.
Thesis: Cytogenetic Evaluation of Rye Germ-Plasm for Forage Improve-
ment.

~ David Richard Pratt
B.S., M.S., Southwest Texas State College.
Animal Husbandry. Major Professor: W. T. Magee, Associate Professor.
Thesis: A Comparison of Mass Selection with Inbred Lines and Line
Crosses in the Laboratory Rat.
SCHOOL FOR ADVANCED GRADUATE STUDIES

DEGREE OF DOCTOR OF PHILOSOPHY (Continued)

Robert J. Reilly
M.A., Ph.B., University of Detroit.
English. Major Professor: B. Duffey, Professor.

Clifford Elroy Samuels
B.S., University of California (Berkley); M.S., Michigan State University.
Food Science. Major Professor: C. L. Bedford, Professor.

Gordon Jay Sterken
B.A., Hope College.
Chemistry. Major Professor: R. M. Herbst, Professor.
Thesis: Synthesis of Tetrazoles as Amino Acid Analogs.

David Denis Sutton
B.S., M.S., Michigan State University.
Animal Husbandry. Major Professor: J. E. Nellor, Associate Professor.

Marvin Paul Thompson
B.S., M.S., Kansas State College.
Food Science. Major Professor: J. R. Brunner, Professor.
Thesis: The Structure of the Milk Fat-Globule Membrane.

Burton Howard Wayne
B.S., M.S., Michigan State University.
Electrical Engineering. Major Professor: H. E. Koenig, Professor.

David Richard Wilken
B.A., Blackburn College; M.S., University of Illinois.
Agricultural Chemistry. Major Professor: R. G. Hansen, Professor.
Thesis: A Nucleotide-Peptide Isolated from Bovine Liver.
SCHOOL FOR ADVANCED GRADUATE STUDIES

DEGREE OF DOCTOR OF EDUCATION

- Melvin Clarence Buschman  
  B.S., M.A., Michigan State University.  
  Education. Major Professor: W. H. Roe, Professor.  

- John Robert Kimball  
  B.S., Alma College; M.A., Michigan State University.  
  Education. Major Professor: K. Hereford, Associate Professor.  
  Thesis: Analysis of Institutional Objectives in Community Colleges.

- Rolf Edward Moeckel  
  B.S., M.A., Michigan State University.  
  Education. Major Professor: H. M. Byram, Professor.  
  Thesis: The Effectiveness of Practices of Individual On-Farm Instruction Used by Teachers of Adult-Farmer Courses in Michigan.

- Earl Maurice Pernert  
  B.S., Central Michigan University; M.A., Michigan State University.  
  Education. Major Professor: C. Campbell, Professor.  
  Thesis: A Study of Certain Aspects of Communication Programs in Selected Class C Public Schools in Michigan.

- Ellwood A. Voller  
  B.S., Western Michigan College; M.A., Michigan State University.  
  Education. Major Professor: W. F. Johnson, Professor.  

GRADUATES AS OF SEPTEMBER 2, 1960

DEGREE OF DOCTOR OF PHILOSOPHY

- Madan B. L. Bharadwaj  
  G.B.V.C., Bihar Veterinary College, Patna, India; M.S., Michigan State University.  
  Anatomy. Major Professor: M. L. Calhoun, Professor.  
Edwin Cohen

B.S., DePaul University; M.A., Michigan State University.
Business Administration. Major Professor: J. D. Edwards, Professor.

Ramchandra G. Desai

B.A., University of Bombay; M.A., Wayne State University.
Social Science. Major Professor: I. Ishino, Associate Professor.

Clive Wellington Donoho, Jr.

B.S., University of Kentucky; M.S., North Carolina State College.
Horticulture. Major Professor: A. E. Mitchell, Professor.
Thesis: The Absorption, Translocation, and Enzymatic Distraction of $^{14}$C-Labeled Growth Regulators When Used as Chemical Thinning Agents for the Peach (Prunus Persica, Sieb, Zucc.) and the Apple (Malus Domestica, Bork.).

Ralph W. Gilchrist

B.S., Tri-State College: M.S.E., University of Michigan.
Electrical Engineering. Major Professor: H. E. Koenig, Professor.

Robert Hillery Hamilton

B.S., University of Illinois; M.S., Rutgers University.
Botany and Plant Pathology. Major Professor: R. S. Bandurski, Professor.

David Paul Heaney

B.S., M.S., Montana State College.
Thesis: Effects of a Marginal Vitamin A Intake During Gestation in Swine.

John Alva Jaynes

B.S., Sam Houston State Teachers College; B.S., M.S., Texas Technological College.
Dairy. Major Professor: L. G. Harmon, Professor.
SCHOOL FOR ADVANCED GRADUATE STUDIES

DEGREE OF DOCTOR OF PHILOSOPHY (Continued)

Perry Brooke Johnson  
B.S., University of Maryland; M.S., Pennsylvania State University.  
Health, Physical Education and Recreation. Major Professor: H. J. Montoye, Professor.  

William Howard Johnson  
B.S., M.S., Ohio State University.  
Agricultural Engineering. Major Professor: W. F. Buchele, Associate Professor.  

Martin G. Keeney  
B.S., M.S., Iowa State College.  
Electrical Engineering. Major Professor: G. P. Weeg, Associate Professor.  
Thesis: Recursive Functions and Finite Automata.

Bernard Klamer  
B.A., Calvin College.  
Zoology. Major Professor: R. A. Fennell, Professor.  
Thesis: A Chemical and Cytochemical Investigation of Acid Phosphatases of Tetrahymena Pyriformis W.

Robert Karl Knapp  
B.A., M.A., Kent State University.  
Psychology. Major Professor: M. R. Denny, Professor.  

Lawrence Dale Koehler  
B.S., Otterbein College.  
Zoology. Major Professor: R. A. Fennell, Professor.  
Thesis: A Histochemical and Biochemical Investigation of the Polysaccharides, Esterases, and Dehydrogenases of Tetrahymena Pyriformis (Strain W).
SCHOOL FOR ADVANCED GRADUATE STUDIES

DEGREE OF DOCTOR OF PHILOSOPHY (Continued)

Frank James Kosier
B.S., M.S., Michigan State University.
Mathematics. Major Professor: R. H. Oehmke, Associate Professor.
Thesis: On a Class of Non-Flexible Algebras.

Bung-Chung Lee
B.S., National Taiwan University; M.S., Georgia Institute of Technology.
Mechanical Engineering. Major Professor: J. E. Lay, Professor.

Kyu Yawp Lee
B.A., B.S., M.S., Michigan State University.
Poultry Husbandry. Major Professor: J. A. Davidson, Professor.

Virginia Harvey Mallmann
B.S., M.S., Michigan State University.

Joseph John Mancuso
B.A., Carleton College; M.S., University of Wisconsin.
Geology. Major Professor: J. Zinn, Professor.
Thesis: Stratigraphy and Structure of the McCaslin District, Wisconsin.

Roger Henry Marz
B.A., Illinois Institute of Technology; M.S., Michigan State University.
Political Science. Major Professor: F. A. Pinner, Associate Professor.

Raymond L. Morter
B.S., Iowa State College; M.S., Michigan State University; D.V.M., Iowa State College.
Microbiology and Public Health. Major Professor: L. C. Ferguson, Dean.
DEGREE OF DOCTOR OF PHILOSOPHY (Continued)

Willis Calvin Owens  
B.A., David Lipscomb College; M.S., George Peabody College.  
Zoology. Major Professor: J. R. Shaver, Professor.  
Thesis: The Effects of Adult Tissue Homogenates, and of Antisera Against Adult Tissues, on Embryonic Development in the Frog.

George Edward Philips  
B.A., Montana State University; M.S., St. Louis University.  
Business Administration. Major Professor: C. J. Gaa, Professor.  
Thesis: Integration of Corporate and Individual Income Taxation.

Robert Arthur Pierson  
B.S., M.S., Illinois State Normal University.  
Education. Major Professor: B. Steffire, Professor.  

James Franke Price  
B.S., University of Tennessee; M.S., Michigan State University.  

Richard Warren Rice  
B.S., M.S., University of Nebraska.  
Thesis: The Relation of Certain End Products of Rumen Fermentation to Forage Feeding Value.

Mary Ellen Roach  
A.B., University of Kansas; M.S., Iowa State College.  
Sociology and Anthropology. Major Professor: W. B. Brookover, Professor.  

Vito Joseph Sarli  
B.S., M.S., Worcester Polytechnic Institute.  
Chemical Engineering. Major Professor: C. M. Cooper, Professor.  
SCHOOL FOR ADVANCED GRADUATE STUDIES

DEGREE OF DOCTOR OF PHILOSOPHY (Continued)

Warren Louis Sauer
B.A., Wayne University; M.A., Michigan State University.
Sociology and Anthropology. Major Professor: W. H. Form, Professor.
Thesis: Labor and Business Images of Community Power Structure: Convergences and Divergences.

Robert Wayne Seerley
B.S., Purdue University; M.S., Michigan State University.

John Paul Sibilio
B.S., Boston University; Ed.M., Harvard University.
Psychology. Major Professor: D. M. Johnson, Professor.
Thesis: The Effect of Perphenazine on Focus of Attention in Schizophrenia.

John Bernard Sjo
B.S., M.S., Kansas State University.
Agricultural Economics. Major Professor: L. W. Witt, Professor.

K. M. Srinivasan
M.S., Annomaloi University, India.
Horticulture. Major Professor: C. Hamner, Professor.
Thesis: Some Modifications in the Behavior of Lycopersicum Esculentum As a Result of Foliar Sprays of Maleic Hydrazide.

Shashkikala Sukhatme
B.S., Fergusson College; B.S., M.S., University of Poona.
Statistics. Major Professor: I. Olkin, Associate Professor.

Aina Valdmanis
Pharmacist Degree, University of Erlangen, Germany; M.S., Michigan State University.
Microbiology and Public Health. Major Professor: W. N. Mack, Professor.
DEGREE OF DOCTOR OF PHILOSOPHY (Continued)

Dallas Gene Waddill
B.S., Arkansas State College; M.S., Michigan State University.
*Thesis:* Hematology of the Fetal and Newborn Pig. 1. Cellular Populations and Serum Protein Concentrations.

Streighton Arthur Watts
A.B., M.A., Pennsylvania State University.
Political Science. *Major Professor:* J. LaPalombara, Professor.

Philip Eugene Wigen
B.A., Pacific Lutheran College.
Physics and Astronomy. *Major Professor:* J. A. Cowen, Assistant Professor.

James Alfred Williams
B.S., M.S., D.V.M., Michigan State University.
Veterinary Pathology. *Major Professor:* C. C. Morrill, Professor.
*Thesis:* The Clinicopathologic Effects of Thyroidectomy on Reproductive and Other Body Functions in the Male Goat.

Donald Gray Williamson
A.B., M.A., Wayne State University.
Speech. *Major Professor:* M. N. Nelson, Associate Professor.
*Thesis:* An Investigation into Abbreviated Clinical Procedures for Hearing Aid Evaluations.

Walter Bruce Zimmerman
B.A., Emmanuel Missionary College.
Physics and Astronomy. *Major Professor:* D. J. Montgomery, Professor.
*Thesis:* Infrared Absorption Spectra of Isotopically Enriched Lithium Hydride.
SCHOOL FOR ADVANCED GRADUATE STUDIES

DEGREE OF DOCTOR OF EDUCATION

Otis J. Aggertt
B.E., Western Illinois State College; M.A., University of Illinois.
Teacher Education. Major Professor: M. Muntyan, Professor.

Ferris Nathan Crawford
A.B., Central Michigan College; A.M., University of Michigan.
Administrative and Educational Services. Major Professor: S. E. Hecker, Associate Professor.

Nye Lee Labaw
B.S., M.S., University of Illinois.
Health, Physical Education and Recreation. Major Professor: K. J. Mc-Cristal, Professor

Alfred Otto Niemi
B.S., M.S., Michigan State University.
Teacher Education. Major Professor: H. M. Byram, Professor
Thesis: Instruction in Forest Practice in Michigan Public Schools with Implications for Teacher Education.

Rex Beach Smith
A.B., Western Michigan University; M.A., University of Michigan.
Administrative and Educational Services. Major Professor: C. M. Campbell, Professor.

Wayne Dean Woodby
A.B., Central Michigan University; M.A., Michigan State University.
Administrative and Educational Services. Major Professor: W. H. Roe, Professor.