



COMMENCEMENT 1965

MICHIGAN STATE UNIVERSITY



# COMMENCEMENT 1965

Sunday, March 14

University Auditorium, East Lansing

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



# ORDER OF CEREMONIES

## PROCESSIONAL

PRELUDE TO THE MASTERSINGERS — *Wagner*

Michigan State University Symphony Orchestra, Professor GOMER LL. JONES,  
*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 ev'ry mountain side  
Let freedom ring!

## INVOCATION

THE REVEREND GEORGE R. MYERS, Ph.D.

*College of Education, Michigan State University*

## ADDRESS

THE HONORABLE GERALD R. FORD, A.B., LL.B.

*United States Representative, Fifth District, Michigan*

## SPECIAL MUSIC

OVERTURE TO THE WASPS OF ARISTOPHANES — *Williams*

## CONFERRING OF DEGREES

JOHN A. HANNAH, D. Agr., LL.D., HH.D., L.H.D., D.Sc.

*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.

When from these scenes we wander  
And twilight shadows fade,  
Our mem'ry still will linger  
Where light and shadows played.  
In the evening oft we'll gather  
And pledge our faith anew,  
Sing our love for Alma Mater  
And thy praises, M.S.U.

## BENEDICTION

THE REVEREND GEORGE R. MYERS

## RECESSIONAL

VARIATIONS ON A THEME BY HANDEL — *Whitney*

The escorts for the procession are members of Mortar Board, the 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 eight elected members serve eight-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 Board has general supervision of the University and the control and direction of all expenditures of University funds.

THE HONORABLE WARREN M. HUFF, <i>Chairman</i>	<i>Plymouth</i>
THE HONORABLE FRANK MERRIMAN	<i>Deckerville</i>
THE HONORABLE C. ALLEN HARLAN	<i>Southfield</i>
THE HONORABLE CONNOR D. SMITH	<i>Pinconning</i>
THE HONORABLE STEPHEN S. NISBET	<i>Fremont</i>
THE HONORABLE DON STEVENS	<i>Okemos</i>
THE HONORABLE FRANK HARTMAN	<i>Flint</i>
THE HONORABLE CLAIR WHITE	<i>Bay City</i>

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JOHN A. HANNAH, <i>Ex Officio, President</i>	<i>East Lansing</i>
JACK BRESLIN, <i>Secretary</i>	<i>East Lansing</i>
PHILIP J. MAY, <i>Treasurer</i>	<i>East Lansing</i>

# 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 111th year, Michigan State has grown from three buildings and six faculty members to one of the ten largest universities in the nation. It has approximately 2,500 staff members engaged in teaching, research and public service, 429 buildings, and 4,900 acres of land, including 1,440 acres in the campus and housing area and 420 more in planned development.

Founded in 1855 to educate youth for the major occupation of that day — farming — MSU has broadened its offerings to meet the educational needs of young people today. Michigan State now has the School for Advanced Graduate Studies and 12 colleges — Agriculture, Arts and Letters, Business, Communication Arts, Education, Engineering, Home Economics, Human Medicine, Natural Science, Social Science, Veterinary Medicine and the University College — which offer basic courses for all freshmen and sophomores. Nearly 200 areas of specialization are available to undergraduates; approximately 300 are offered for graduate students.

The Honors College, which enables superior students to waive normal graduation requirements and undertake individual programs, attracts many of the nation's finest young scholars. The Merit Scholarship Program, of which Michigan State University is a prominent sponsor, enrolled 199 Merit Scholars in this year's freshman class. This figure represents approximately 12 per cent of the nation's total of this unusually select group.

One of the newest of many innovations in higher education made by Michigan State University is its coeducational-academic residence halls. Incorporation of classrooms and faculty offices with living, dining and recreational facilities has given these giant new dormitories a stimulating academic environment. Six of these residence halls are now occupied and one more is under construction. The academic-coeducational arrangement has worked so well that it is being carried one step further with four of the seven new residence-halls reserved primarily for upper classmen. Each of these halls is the center of curricular and noncurricular activities for a college, creating a "college within a college" atmosphere.

Today, more than 31,000 students attend the University at East Lansing. About 80 per cent are from Michigan, representing every section of the state. Students also come from every state in the nation and 84 foreign countries.

Looking to the future, Michigan State University is preparing for increasingly larger enrollments as the great number of children born after World War II reach college age. To meet this challenge, MSU is revising curriculums and developing new teaching techniques through its Educational Development Project.

# MICHIGAN STATE UNIVERSITY

(continued)

In the land-grant tradition it pioneered, Michigan State University is concerned with research and service as well as teaching.

All colleges and the Agricultural Experiment Station are engaged in a wide range of research. Some 1,700 individual projects are in progress. The University's research tools include the giant new Control Data 3600 Computer and a 50-million-volt cyclotron; which will begin operations this year. Facilities completed in 1964 include a \$6 million chemistry building, a \$5.2 million biochemistry laboratory, and an \$862,000 psychology research building. A \$4.7 million veterinary medicine building will be finished in 1965

Through an agreement with the Atomic Energy Commission, MSU will become a national center for basic research on plants and their reactions to radiation. Involved is construction of a \$2 million building, a staff of about 90 persons and an annual budget of about \$1 million when the program is fully underway.

Benefits of the University are brought to every county in Michigan by the Cooperative Extension Service and the Continuing Education Service. Their programs, on and off campus, provide a wide range of technical information and formal course work for hundreds of thousands of Michigan citizens. The Kellogg Center for Continuing Education, one of the finest conference centers in the nation, annually hosts nearly 50,000 adults who come to the campus for some 600 conferences and other educational meetings.

Michigan State University's land-grant concept of service is international. Supported by grants from the federal government and private foundations, Michigan State University maintains research and technical assistance projects at 15 educational institutions in Asia, Africa and Latin America. International projects have given many faculty members overseas experience, adding a new dimension to their teaching.

With more than a century of educational achievement behind it, Michigan State University continues to apply its academic and physical resources to the problems of today and the challenges of the future.



# HONORARY DEGREE

GERALD R. FORD

Your career as a lawyer and statesman has been one of unusual achievement. Your vigor and desire for excellence were evident early in your life, when you won recognition as an All-American football player. Later, because of your success as an attorney, your exemplary service as a naval officer in World War II, and your admirable record as U. S. Representative from Michigan's Fifth District, you were honored by the U. S. Junior Chamber of Commerce as one of the ten outstanding young men in America. During your years in Congress you have continued to acquit yourself as a statesman with a deep loyalty to the principles of democracy and party responsibility in government. Your efforts on behalf of the American people, both at home and in conferences abroad, have met with uncommon success. Your selection to serve as a member of the national commission to investigate the assassination of President Kennedy and the general acceptance of the commission's report are evidence of both your probity and the confidence reposed in you by the American people. Your recent elevation to a position of party leadership is indicative of the esteem in which you are held by your fellow Congressmen. Because of the outstanding contributions you have made to the political and social welfare of the people of Michigan and of the nation, Michigan State University confers upon you the degree of Doctor of Laws.

# THE CANDIDATES FOR DEGREES

## 1965 CLASS ROSTER

This includes the names of candidates for degrees for March, 1965.

Candidates are listed by School for Advanced Graduate Study and by colleges. The colleges are arranged in the order in which they were established.

# SCHOOL FOR ADVANCED GRADUATE STUDIES

MILTON E. MUELDER, DEAN

## CANDIDATES FOR THE DOCTORAL DEGREES

REX EUGENE BALLARD, Ph.D.

A.B., Western Michigan University; B.D., Northern Baptist Theological Seminary; S.T.M., Andover Newton Theological School.  
Education. Major Professor: J. E. Jordan, Associate Professor.  
Thesis: An Empirical Investigation of Viktor Frankl's Concept of the Search for Meaning: A Pilot Study with a Sample of Tuberculosis Patients.

KAY REED BENDIXSEN, Ph.D.

B.S., M.S., Utah State University.  
Animal Husbandry. Major Professor: W. T. Magee, Associate Professor.  
Thesis: A Comparison of Two Strains of Rats and the Crosses Between Them Under Two Environmental Conditions.

FREDERICK J. BOERSMA, Ph.D.

B.S., M.A., Western Michigan University.  
Education. Major Professor: B. Corman, Professor.  
Thesis: Effects of Delay of Information Feedback and Length of Postfeedback Interval on Linear Programed Learning.

RODNEY L. BOYES, D.B.A.

B.I.E., General Motors Institute; M.B.A., Michigan State University.  
Business Administration. Major Professor: J. H. Hoagland, Associate Professor.  
Thesis: Fluctuations in Steel Purchases and Inventories: 1953-1963.

ROBERT JOHN BRAKE, Ph.D.

B.A., North Dakota State University; M.A., State University of South Dakota.  
Speech. Major Professor: K. G. Hance, Professor.  
Thesis: Classical Conceptions of "Places": A Study in Invention.

KENNETH G. BRENGLE, Ph.D.

B.S., M.S., Oklahoma State University.  
Soil Science. Major Professor: A. E. Erickson, Professor.  
Thesis: The Behavior of Fatty Alcohol Applied to Soils.



## SCHOOL FOR ADVANCED GRADUATE STUDIES

### CANDIDATES FOR THE DOCTORAL DEGREES (Continued)

ANDRE RICHARD BRILLAUD, Ph.D.

A.B., M.A., Kansas University.  
Microbiology & Public Health. Major Professor: O. W. Kaufmann, Associate Professor.  
Thesis: The Development of *Clostridium botulinum* Types 62 A and B in Sterile Skimmilk.

NGUYEN HUU CHI, Ph.D.

Licence en droit, Saigon University.  
Political Science. Major Professor: F. A. Pinner, Professor.  
Thesis: Political Socialization and Political Change.

KIN LING CHOW, Ph.D.

B.A., Taiwan Normal University; M. Ed., Marquette University.  
Education. Major Professor: B. R. Corman, Professor.  
Thesis: The Relationship Between Anxiety and The Self Structure.

LUTHER PARMALEE CHRISTMAN, Ph.D.

B.S., Ed.M., Temple University.  
Sociology. Major Professor: W. E. Freeman, Professor.  
Thesis: The Selective Perceptions Resulting from Training for a Vertical Division of Labor and the Effect on Organization Cohesion.

KENNETH R. CLAY, Ph.D.

B.S., Millersville State Teachers College; M.A., Ball State Teachers College.  
Education. Major Professor: L. Borosage, Professor.  
Thesis: A Study of the Nature of Creative Behavior in Industrial Arts and the Indicated Encouragement of this Type of Behavior by Michigan Industrial Arts Teachers.

BENJAMIN GUMBU DENNIS, Ph.D.

B.A., Lincoln University; M.A., Fisk University.  
Sociology & Anthropolgy. Major Professor: J. A. Beegle, Professor.  
Thesis: The Level of Formal and Informal Integration of Negroes in the External Community of Lansing, Michigan.

RONALD E. EICK, Ph.D.

B.A., M.A., Michigan State University.  
Education. Major Professor: C. H. Gross, Professor.  
Thesis: Development of Schools in Two Arab States of North Africa, with Particular Attention to the Nature and Effect of French Influence.

W. BRUCE ERICKSON, Ph.D.

B.A., M.A., Michigan State University.  
Economics. Major Professor: R. F. Lanzillotti, Professor.  
Thesis: Price Fixing Under the Sherman Act: Case Studies in Conspiracy.

FRANKLIN RICHARD FRONEK, Ph.D.

B.S., Michigan State University.  
Botany & Plant Pathology. Major Professor: W. J. Hooker, Professor.  
Thesis: Verticillium Wilt Resistance in Potato.

## SCHOOL FOR ADVANCED GRADUATE STUDIES

### CANDIDATES FOR THE DOCTORAL DEGREES (Continued)

JOHN THOMAS GATTO, Ph.D.

B.S., Queens College.

Chemistry. Major Professor: K. G. Stone, Professor.

Thesis: Cerate Oxidimetry of Alpha-Hydroxy Acids and Related Molecules in Acetic Acid.

STEVE GOLDBERRY, Ph.D.

B.S., AM & N College; M.S., Michigan State University.

Anatomy. Major Professor: M. L. Calhoun, Professor.

Thesis: Histologic and Histochemical Studies of the Protective Apparatus of the Eyes in Hereford and Aberdeen Angus Cattle.

LLOYD SAMUEL GOYINGS, Ph.D.

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

Pathology. Major Professor: R. F. Langham, Professor.

Thesis: Mycobacteriosis of Cattle Inoculated with Group-III Organisms of Bovine Origin.

RICHARD GEOFFREY HAIRE, Ph.D.

B.A., North Central College.

Chemistry: Major Professor: A. Timmick, Associate Professor.

Thesis: A Study of the Decomposition of Potassium Ferrate (VI) in Aqueous Solution.

DELORES MABEL HARMS, Ph.D.

B.E., Wisconsin State College; M.A., Michigan State University.

Education. Major Professor: N. Kagan, Associate Professor.

Thesis: An Investigation of Social and Psychological Characteristics of Counselor Trainees.

CECIL VERNON HYNES, Ph.D.

B.A., M.B.A., Michigan State University.

Business Administration. Major Professor: J. L. Hazard, Professor.

Thesis: Analysis of Michigan and Ontario Trade and Transport Reciprocity.

WILLIAM J. KEARNEY, Ph.D.

B.S., Western Michigan University; M.A., Michigan State University.

Business Administration. Major Professor: R. H. Simonds, Professor.

Thesis: A Comparison of the Level of Career Advancement in Business Between Selected Liberal Arts and Science Graduates and Business Administration Graduates.

DOUGLAS CARLYLE KEISTER, Ph.D.

B.S., M.S., Cornell University.

Business Administration. Major Professor: R. H. Simonds, Professor.

Thesis: A Study of the Nature of the Ownership and Management of Selected Michigan Motels.

JAMES JOSEPH LePAGE, Ph.D.

B.S., M.S., Arizona State University.

Physics & Astronomy. Major Professor: F. J. Blatt, Professor.

Thesis: Magnetothermal Oscillations and the Fermi Surface of Beryllium.

## SCHOOL FOR ADVANCED GRADUATE STUDIES

### CANDIDATES FOR THE DOCTORAL DEGREES (Continued)

ALAN BRYCE LLOYD, Ph.D.

B.S., University of Otago; M.S., Michigan State University.  
Botany & Plant Pathology. Major Professor: J. L. Lockwood, Associate Professor.  
Thesis: Lysis of Fungal mycelium by Soil.

HUGH ELVIN LOCKHART, Ph.D.

B.S., M.S., Michigan State University.  
Packaging. Major Professor: H. J. Raphael, Associate Professor.  
Thesis: Design and Application of an Isostatic Permeability Test Method For the Study of Cellulosic and Plastics Barrier Materials, Packages and Closures.

ABRAHAM KWAN-YUEN LOH, Ph.D.

B.A.S., University of Toronto; M.S., Michigan State University.  
Civil Engineering. Major Professor: T. H. Wu, Professor.  
Thesis: Mechanism of Friction and Cohesion in Clays.

WILLIAM ALEXANDER LYNK, Ph.D.

B.A., Fisk University; M.S., University of Michigan.  
Education. Major Professor: H. J. Dillon, Professor.  
Thesis: A Study of the Relationships Between Socio-Economic Status and Reasons for Participating in Adult Education Programs in the City of Baltimore, Maryland.

CHARLES H. MCGINNIS, JR., Ph.D.

B.S., Rutgers University; M.S., Purdue University.  
Poultry Science. Major Professor: R. K. Ringer, Professor.  
Thesis: The Effects of Arterial Occlusion in the Chicken.

EGON MERMELSTEIN, Ph.D.

B.S., City College of New York; M.S., Yeshiva University.  
Education. Major Professor: L. S. Shulman, Assistant Professor.  
Thesis: The Effect of Lack of Formal Schooling on Number Development.

JOHN B. MURRAY, Ed.D.

B.A., Western Michigan University; M.A., University of Michigan.  
Education. Major Professor: W. H. Roe, Professor.  
Thesis: An Analysis of State Plans for Financing Pupil Transportation.

ROBERT OGBORN NOLAN, Ed.D.

B.S., Guilford College; M.A.D., Springfield College.  
Education. Major Professor: C. H. Gross, Professor.  
Thesis: A Comparative Study of the Teaching Effectiveness of the Multiple Car Off-Street Driving Range and the Aetna Drivotrainer.

CHARLES OKOLO OKAFOR, Ph.D.

B.S., Christ the King College; M.S., University College (Ibadan).  
Chemistry. Major Professor: R. Schuetz, Professor.  
Thesis: "Open" Sulfur Heterocyclic Analogs of the Phenothiazines and Related Phenylthienyl Systems.



## SCHOOL FOR ADVANCED GRADUATE STUDIES

### CANDIDATES FOR THE DOCTORAL DEGREES (Continued)

RICHARD PAUL OSBORNE, Ph.D.

B.A., M.S., University of Colorado.  
Mathematics. Major Professor: J. G. Hocking, Professor.  
Thesis: Embedding Cantor Sets in Manifolds.

DAVID WILLIAM PRICE, Ph.D.

B.S., M.S., Pennsylvania State University.  
Agricultural Economics. Major Professor: J. T. Bonnen, Associate Professor.  
Thesis: Age-Sex Equivalent Scales for United States Food Expenditures-  
Their Computation and Application.

ARTEMIO RIVERA-ARROYO, Ph.D.

A.B., M.A., University of Puerto Rico.  
Education. Major Professor: K. T. Hereford, Associate Professor.  
Thesis: Characteristics of Student Leaders and Non-Leaders in the University of San Carlos of Guatemala.

ROBERT RAYMOND SCHMATZ, Ed.D.

B.S., Fredonia State Teachers College; M.A., Southern Illinois University.  
Education. Major Professor: W. K. Durr, Professor.  
Thesis: A Comparison of Achievement and Attitudes of Sixth-Grade Students in Regular and Combination Grades.

GARY GORDON SERVOS, Ph.D.

B.S., Kansas State University.  
Geology. Major Professor: W. J. Hinze, Associate Professor.  
Thesis: A Gravitational Investigation of Niagaran Reefs in Southeastern Michigan.

GERALD N. SIMMONS, Ed.D.

B.S., Eastern Michigan University; M. Ed., Wayne University.  
Education. Major Professor: D. J. Leu, Professor.  
Thesis: A Study of the Role of Michigan Education Association Field Representative as Perceived by Selected Educators.

RAM DAS SINHA, Ph.D.

I.S., Science College; G.B.V.C., Bihar Veterinary College; M.S., Michigan State University.  
Anatomy. Major Professor: M. L. Calhoun, Professor.  
Thesis: A Gross, Histologic and Histochemical Study of the Eye Adnexa of Sheep and Goats.

VI MARIE TAYLOR, Ph.D.

B.A., North Texas State University; M.A., Texas Women's University.  
Education. Major Professor: C. A. Blackman, Associate Professor.  
Thesis: Creativity and Image Perception: Analysis of Responses to Two Types of Questions.

JOHN H. THURBER, Ph.D.

B.A., M.A., University of Nebraska.  
Speech. Major Professor: D. C. Ralph, Professor.  
Thesis: The Public Speaking of Zachariah Chandler.

## SCHOOL FOR ADVANCED GRADUATE STUDIES

### CANDIDATES FOR THE DOCTORAL DEGREES (Continued)

- ROLLO WINSLOW VAN PELT, JR., Ph.D.      B.A., D.V.M., Washington State University; M.S., Michigan State University.  
Veterinary Pathology. Major Professor: R. F. Langham, Professor.  
Thesis: Pathologic Alterations in the Synovial Fluid and Joints of Cattle.
- LIBOR JIRI VELINSKY, Ph.D.      B.A., Vanderbilt University.  
Physics & Astronomy. Major Professor: S. K. Haynes, Professor.  
Thesis: The Michigan State University Iron-Free Double Focusing Beta-Ray Spectrometer.
- DONALD EUGENE WAMPLER, Ph.D.      B.A., Bridgewater College; M.S., Michigan State University.  
Biochemistry. Major Professor: J. L. Fairley, Professor.  
Thesis: The Effect of Alpha-Aminobutyric Acid and Propionic Acid on the Synthesis of Pyrimidines and Arginine in *Neurospora crassa*.
- GEORGE STEPHEN WESTON, Ph.D.      B.A., Albion College; M.A., Michigan State University.  
Education. Major Professor: G. A. Miller, Associate Professor.  
Thesis: Fifth Grade Boy's Levels of Occupational Aspiration.
- WALTER GLENN WILLIAMS, JR., Ph.D.      B.A., M.A., University of Michigan.  
Education. Major Professor: C. A. Blackman, Associate Professor.  
Thesis: An Exploratory Study of Factors Influencing Selected Teachers to Become Interested and Involved in the Area of International Understanding.
- RONALD WAYNE WILSON, Ph.D.      B.S., Iowa State University.  
Botany & Plant Pathology. Major Professor: E. S. Beneke, Professor.  
Thesis: Factors Affecting the Germination of the Basidiospores of *Calvatia gigantea*.
- ROBERT PAUL WORRALL, Ph.D.      B.S., Ohio State University; M.S., University of Wisconsin.  
Education. Major Professor: H. J. Dillon, Professor.  
Thesis: The Use of Television for Instruction in Adult Education.

# SCHOOL FOR ADVANCED GRADUATE STUDIES

## DIPLOMA FOR ADVANCED GRADUATE STUDY

STEPHEN M. GLAZA

B.S., Michigan State University; M.S., University of Michigan.  
Education. Major Professor: C. M. Campbell, Professor.

CHARLES JOHN HAGENBERG

B.A., Union College; M.A., University of Nebraska.  
Education. Major Professor: G. A. Miller, Associate Professor.

JOHN MAJOR

B.S., Central Michigan University; M.A., Eastern Michigan University.  
Education. Major Professor: W. H. Roe, Professor.

LYMAN EDWARD McLOUTH

B.S., Michigan State University; M.S., University of Michigan.  
Education. Major Professor: J. H. Suehr, Assistant Professor.

PER ALFRED WICKSTROM

A.B., Western Michigan University; M.A., University of Michigan.  
Education. Major Professor: W. H. Roe, Professor.

VICTOR WIER

B.S., Western Michigan University; M.A., University of Michigan.  
Education. Major Professor: J. H. Suehr, Assistant Professor.



# COLLEGE OF AGRICULTURE

THOMAS K. COWDEN, DEAN

## DEGREE OF MASTER OF SCIENCE

*Agricultural Economics*  
Carlos Henrique Caraballo  
Duane Simon Girbach  
Donald W. Larson  
Suwan Traipol

*Agricultural Mechanics*  
Jose Alberto De La Garza

*Animal Husbandry*  
Robert Lee Hesselink  
Arthur Alwyn Owen

*Cooperative Extension  
Education*  
Maria Onyeuwalu Ahunanya

*Crop Science*  
Mohsen Abdel Fattah Younes

*Fisheries and Wildlife*  
Keith W. Harmon

*Food Science*  
Elton David Aberle  
Toshio H. Saga  
Soewarno Tjokrosoekarto

*Forest Products*  
Donald Edmund Kawal  
Thomas Herbert Nowack  
Kim Owen Wilkins

*Forestry*  
Julian James Kielbaso

*Horticulture*  
Bruce Daniel Beard

*Resource Development*  
Prawat Supaprawat  
James Joel Truncer

DEGREE RECOMMENDED  
JOINTLY WITH THE COLLEGE  
OF ENGINEERING

*Agricultural Engineering*  
Charles Carsten Mueller

Edward Mark Sussman  
Gerald Anthony Swaney

*Park Management*  
Gordon Herbert Archer  
James David Kent De Shane  
Laurence Alfred Schenk

*Pomology and Vegetable  
Production*  
Bruce Arthur Dowd  
Donald Wesley Nugent

*Residential Building*  
James C. Berg  
Dan L. Cook  
Allen E. Lamphere  
Glen Alan Mills  
Kenneth Ronald Minichiello

DEGREE RECOMMENDED  
JOINTLY WITH THE COLLEGE  
OF EDUCATION

*Agricultural Education*  
Terrence Riley Chesebro

## DEGREE OF BACHELOR OF SCIENCE

*Agricultural Communications*  
H\* Barbara Ann Wolfson

*Agricultural Economics*  
Leon C. Bleshenski  
\*Thomas Martin Irrer  
\*Joseph Kayode Olayemi  
\*Dale Lee Shaw

*Agricultural Mechanics*  
Kent Bruce Clark  
Jeffrey Wheeland Hastings  
\*Robert Leo Wahmhoff

*Animal Husbandry*  
John Victor Galazin

*Crop Science*  
H\*\* Onogbakere Leleji

*Dairy Production*  
Daniel Frank Kesselring  
Stanley Arthur Marks

*Fisheries and Wildlife*  
\*Gerald Carrol Brocker  
Thomas Francis Carlson  
John Carl Plume  
Donald Eugene Reynolds  
Nicholas Carl Steen  
James George Truchan

*Forestry*  
\*David Michael Baumgartner  
Gene Lee Dundas  
Lyle Frank Erbsch  
Louis Frederick Gildemeister  
Richard Leo Hamilton  
H\* Ronald Roy Humphrey  
Gerald Louis Yeiter

*Lumber and Building  
Materials Merchandising*  
Dana Richard Farden

*Packaging*  
Thomas Gar Bennett  
David Glenn Burns  
William George Fish  
Wayne Edward Freeman  
Walter Ned Gardner  
\*John Robert Hendee  
Maynard Allen Kenyon, Jr.  
Donald Dennis Ketcham  
Richard Jay Kinzler  
Ronald Alan Kratt  
Renaldo David LeButt  
Douglas Carl McKinnon  
Salustiano Segovia Mirasol,  
Jr.  
\*Timothy Louis Sak  
Gerald Brian Sitor  
D. Terr Stephens

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# COLLEGE OF ENGINEERING

JOHN D. RYDER, DEAN

DEGREE OF  
MASTER  
OF SCIENCE

*Civil Engineering*

James Leonard Drake  
Robert John Neukirchner  
Thakorbhai Chhotabhai Patel  
Charles Andrew Stoll  
David Lee Warder

*Electrical Engineering*

William Caine Ellsworth  
Charles Edward Newman, Jr.  
Alan C. Reiter  
Frank Stanley Reynolds  
Thomas Malcolm Steury

*Mechanical Engineering*

James Thomas Webster

DEGREE OF  
BACHELOR  
OF SCIENCE

*Chemical Engineering*

Lewis Eugene Clem

*Civil Engineering*

Carlo Poggi  
Larry Al Schultz

*Mechanical Engineering*

\*Edward Joseph Anderson  
\*Ali Erkan Engin  
Mansour Lavi  
Bruce Allen Webster  
Roy Douglas Willis

DEGREE RECOMMENDED  
JOINTLY WITH THE COLLEGE  
OF AGRICULTURE

*Agricultural Engineering*  
Ronald Dale Rogers

\* With Honor

# COLLEGE OF HOME ECONOMICS

JEANETTE A. LEE, DEAN

## DEGREE OF MASTER OF ARTS

*Home Management*  
Patricia Norris Ahern

*Textiles and Clothing*  
Lina Rowe Godfrey

## DEGREE OF MASTER OF SCIENCE

*Nutrition*  
Linda Ann Morris

## DEGREE OF BACHELOR OF SCIENCE

*Foods*  
Thelma Kay Smith

*General Clothing and Textiles*  
Jane Russell Gladney

*General Home Economics*  
Betty Joan Kesselring

*Interior Design*  
Kay Elizabeth Werner

*Retailing of Textiles and Clothing*  
Mary Carol-Len Aldrich  
\*Diane Mary Cavell

Lillian Dolores Greene  
Joy Ann Kratt  
Virginia Drew Kunath  
Judy Lee Maleitzke  
Valerie M. Wichowski

## DEGREE RECOMMENDED JOINTLY WITH THE COLLEGE OF EDUCATION

*Child Development and Teaching*  
Melanie Coy Eklund  
Anneli Korhonen Koets  
Martha A. Leeman

Alison S. Rose  
Barbara K. Steyer  
Diane Elizabeth Wurst

*Home Economics Teaching*  
Carol Ann Coates  
Marilyn Frost Harter  
Marja Helena Kadish  
Carolyn Clair LaRose  
\*Vivian Marie Pavlis  
Judith Kay Reif  
Barbara Shassberger Sleeper  
Carol Ann Steinhoff  
H\*\*Carole Vincent

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# COLLEGE OF VETERINARY MEDICINE

WILLIS W. ARMISTEAD, DEAN

## DEGREE OF DOCTOR OF VETERINARY MEDICINE

### *Veterinary Medicine*

Manny Olufolahan Adegbite  
Donald Wayne Alimenti  
Tommy Roger Aultman  
Vernon Budington Aultman  
William Joseph Bowman  
Walter Robert Brown, Jr.  
Vincent James Dilella  
Laurence Eli Green  
Judith Corinne Haefner

\*William Charles Haefner  
Frederick Paul Hamann  
Frank Gerald Harris  
Donald Robert Howard  
Turner Timinipre Isoun  
Ronald James Martens  
Eugene Joseph Palicke  
\*Dale Eugene Penegor  
John Kenneth Rooker  
C. Gene Sellers

Frederick Carl Shiery  
\*Gary Lee Sparschu  
Theodore Ernest Staley  
Joseph Svoboda, Jr.  
Philip Allan Teitel  
\*Ann Catherine Van Goethem  
\*Wayne Robert Weisner  
Raymond Wyn

## DEGREE OF MASTER OF SCIENCE

### *Surgery and Medicine*

James Benson Dalley

## DEGREE OF BACHELOR OF SCIENCE

### *Veterinary Medicine*

Julian Sandy Chestnut  
Ronald Kieth Disbrow  
Gerald John Kolaja

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# COLLEGE OF BUSINESS

ALFRED L. SEELYE, DEAN

## DEGREE OF MASTER OF ARTS

### *Economics*

Ernest John Irwin  
Alice Jacobson

Gerald Hammond Miller  
Benjamin P. Smith  
Zane Andre Spindler

## DEGREE OF MASTER OF BUSINESS ADMINISTRATION

### *Graduate School of Business Administration*

Guy de Alcovia Rego Agulha  
Donn Leonard Anderson  
Emil E. Bahnmaier  
Carlos Osmar Bertero  
John Wesley Blackwell  
Alan Charles Carlson  
William J. Cunningham  
John Bryn Davies

Burton Royce Eckhardt  
Gerald C. Erickson  
Tekin Ertan  
Gerard Paul Gray  
Geoffrey Fisk Hamilton  
Kay Wold Herbranson  
Peter Arthur Lans  
Conrad Arnold Larson  
Harijs Markevics  
Rodney Robert Miller, Jr.

Josef Emil Oppenheimer  
Anantkumar Chimanbhai  
Patel  
Anthony Charles Rogalski, III  
Fred George Sutton  
Aloysio Rios Trabuco  
Kenneth Dale Vander Ark  
Robert Henry Vandermolen  
George Louis Walsh  
James Stuart Westwater, Jr.

## DEGREE OF BACHELOR OF ARTS

### *Accounting*

Kenneth Eugene Bristow  
H\* Philip Richard Granger  
John Arthur Haga  
Gerald David Johnson  
Paul Mathew Kostamo  
H\*\* Harvey Allen Levin  
David Lawrence Mahoney  
Roger Lee Schwab  
Linda Kay Sell  
Ronald Sommers  
Thomas Lincoln Underwood  
Jon Charles Whiteman  
\*Robert R. Woods  
David Edward Young

### *Economics*

Winograd Marcos Altman  
William Francis Dowling  
Perrin Howard Durling  
Richard Gerry Elmendorf  
Merrill Emmett Hanauer  
Macgregor Bruce Hay  
David Mayes  
Wesley Leon McCrum

John Michael O'Hara  
Jon Edward Runquist

### *Executive Secretarial Administration*

Bethany Joanne Haas  
Jo Ann Marie Miller  
Barbara Allison Patton

### *Financial Administration*

H\*\* Michael William McCarthy

### *Food Marketing*

\*Richard Spencer Klegon  
Robert Allan Lamb  
Jay Russell Lerner  
Steve Joseph Rudoni  
Thomas Raymond Smego

### *General Business Administration*

George Aoki  
Kenneth Peter Badalament  
Robert Louis Baum  
Richard Sanford Bennett

Eugene Keith Bond  
James Allen Burrows  
John Edward Bussell  
James Anthony Culotta  
\*Dorothy Ann Ellis  
Robert Hart Gillam, Jr.  
Richard Arthur Hamilton  
Dennis Keith Harrison  
Thomas Phillip Henderson  
Howard James Hoffman  
Robert Donnelly Jacobs  
Donald Alvin Kaiser  
Jerald Elson Landry  
\*James Henry Leachman  
Timothy O'Connell Lester  
Gary Everett Lightfoot  
Richard Alan Madonia  
Robert Bruce McKenzie, Jr.  
Lyle Wayne Miller  
Michael Lambert Moran  
Joseph Richard Pierce, Jr.  
Ronald Lee Pryor  
Terrence Adrian Reiff  
Robert Thomas Riggie

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## COLLEGE OF BUSINESS

### DEGREE OF BACHELOR OF ARTS

Robert Peter Soodsma  
Gary Maynard Van Ornum

#### *General Marketing*

Lee Edward Burrows  
Terrence Raymond Clark  
James Sutherland Danhof  
Stephen Christopher

#### *Economy*

\*Gary Lynn Fay  
Richard Russell Gehringer  
Michael V. Georgopolis  
Robert Corwin Greenhalgh  
Richard Paul Haynes  
Edwin W. Hubbard

H\*\*John Sewell Kakalik  
Edward Donald Keys III  
Calvin Lynn Kuyers  
James Irwin Lietzke  
Ronald Peter Omtvedt  
Ronald Norman Rademacher  
Gordon Lee Rebresh  
Milton Clair Roskam  
Thomas Henri Sak  
John Morris Schoepke  
William Erwin Schuiling  
\*Sandra Elizabeth Schweitzer  
Marshall Richard Shaink  
Gailen Broadwell Smith  
William David Timmers  
William Joseph Veresh

#### *Hotel, Motel & Club Management*

George James Agas  
John Arnold Benus  
Joseph Stanley Bergaila  
Douglas Danziger  
Steven Elkovich  
George Charles Fetherston  
Thomas Harold Guthrie  
Jon Larry Kany  
Gerald Thomas Mezera  
Barry Rogers Miller  
John Robert Rachfal  
Lauris Peter Ritters  
A. Charles Scala  
Thomas Duane Sharp  
John William Stephenson  
Robert Edward Taylor  
Neil Steward Watts

#### *Industrial Administration*

Thomas Joseph Almus  
Ernest Robert Hedberg  
James David Ries  
Richard William Thomas  
Edward M. Thomas III

#### *Institutional & Hospital Management*

John William Cannady, Jr.  
\*Kenneth Lee Hawkins  
Melvin Arthur St. John

#### *Personnel Administration*

H\*\*Douglas John Austin  
William Doyle Clark  
Glenn Walton Erickson  
Michael Scott Long  
W. George Rosendale

#### *Production Administration*

Richard Albert Stein

#### *Restaurant Management*

Jon F. Ash  
H\*\*Warren Frederick Barnes  
Roger Sheldon Beebe  
Donald John Burgess II  
Dennis Allen Dobbstein  
Joseph Henry Gallante  
Mitchel J. Henderson  
Philip Taylor McGreevy  
Donald Arthur Payne

#### *Transportation Administration*

William J. Maroney  
Charles Hendrick Versteeg

DEGREE RECOMMENDED  
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#### *Business and Distributive Teacher Education*

Lenore Elaine Burman  
H\*\*Pamela Ann Lessiter  
Susan Barbara Zorn

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# COLLEGE OF EDUCATION

JOHN E. IVEY, JR., DEAN

## DEGREE OF MASTER OF ARTS

### *Education*

Malak H. Abou-Hargah  
John Carl Acton  
Barbara Mary Agocs  
Stanley Earle Alberda  
Gerald Jacob Alliton  
William David Arras  
Ernest Alvin Barnikow  
Louise Isabella Beebee  
Louise Joan Brastrom  
Willis Gene Byker  
Joe Roger Chapel  
Robert Lloyd Chapman  
Dominic John Costa  
Wanida Daengsubha  
Harriet Gladys DeBlaay  
Joseph William Devlin  
Marianne Crozier Dierkes  
Richard Michael Drenovsky  
Marjorie Ruth Edwards  
William Lawrence Eiker  
Jane Elaine Engel  
Cathryn Cronn Epp  
Patricia Beekman Evans  
Mary Katherine France

Delores Marie Griffin  
Samuel M. Hall, Jr.  
Charles Mead Hilt  
David W. Huey  
Maryann Bertha Jones  
Richard Vernon Jones  
Lee Jonas Kronenberg  
John Wayne Kulig  
Robert Bruce Lewis  
Larry Eugene Matejka  
Martha Elizabeth Stone  
Murray  
Thomas Leo Murrin  
Donald Joseph NeSmith  
John J. Niederer  
Kenneth Guy Nunnelly  
Ruth Doehr Orentas  
Doran Robert Osborne  
John J. Papajohn  
Marie Eleanor Pearson  
Thomas Robert Plough  
Marion Frances Radigan  
Sharon Marylyn Rapp  
Sharon Kathryn Reimus  
Byron Richard Rogers

Nancy Stuart Roleson  
Lawrence Rubeck, Jr.  
Martha Harkness Russell  
L'Bertha Visscher Rycenga  
Theodore Jay Rycenga  
Donald Albert Schiesswohl  
Jeanette Scott  
Elizabeth Croft Sheridan  
Floyd Dale Smith  
Elizabeth Brady St. John  
Theresa C. Staal  
Betty Jane Stasiak  
Richard Arlin Summers  
Naomia O. Thering  
Thomas E. Thompson  
Donald Herbert Thomson  
Suzanne Frances Toben  
Lillian Skadberg Upcraft  
Abel LeRoy Vander Woude  
Herbert Games Vaughan  
Elmer Veldheer  
Eleanor G. Warden  
Maxine Ruth Wolf  
Gordon Keith Young

## DEGREE OF BACHELOR OF ARTS

### *Elementary Education*

Gary L. Bence  
Sara Ellen Birdsall  
Joyce Joan Bucior  
\*Sharon Ann Buell  
Jeannette Ruth Burch  
Margaret Jeanne Bushnell  
Kay Diane Fulton Chapman  
Marilyn Ann Claydon  
\*Peggy Marie Clock  
Caren Anne Creamer  
Julianne Ruth Dahlberg  
Martha Louise Dahlinger  
\*Cynthia Lou Deason  
Cynthia Jean (Graham) Doty  
Judy Drysdale  
Lynne Ellen Eddy

H\*\*Nancy Ferrar Faulkner  
\*Sally Lucille Flagel  
Clarence Edwin Frost  
\*Lana LaForce Freeman  
\*Tanya Kay Gilmour  
Elinor Frances Glover  
Barbara Suzanne Goodrum  
Sandra Lou Govatos  
Donnajo Graham  
\*Diane Lee Grigg  
Jane Ellen Grove  
Patricia L. Hall  
Nancy Merrill Haring  
Sarah Jane Hawley  
Marie Elizabeth Hilbert  
\*Susan Lynne Holcomb  
\*Judith Ann Hollister

\*Leslie Huberman  
Barbara L. Hunt  
Laurence J. Jacobson  
Betty Cosgrove James  
\*Joan Viva Jennings  
Jill Louise Kauffman  
Barbara Rae Kenady  
Ann Terese Kirkwood  
Corwin Andrew Krugh  
Nancy Anne Kuebler  
Joyce L. Kushmaul  
Lillian A. Lockwood  
Dianne Helen Loeb  
Judith Gay Maiseloff  
Garnette Faith Marmion  
\*Barbara Doris Miller  
\*Valerie Anne Mosher

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## COLLEGE OF EDUCATION

### DEGREE OF BACHELOR OF ARTS

Margaret Anne Mummery  
Patricia Ann Needham  
\*Stergiani Papadopoulos  
Sharon E. Parman  
Karen Ruth Pearson  
Patricia Ann Pettengill  
Charles Jack Potts  
Barbara Cooper Prelesnik  
Lynn Diane Premo  
Joan Mary Prince  
Andrea Ganzhorn Rander  
\*Sherry Nevans Raynor  
Helen Catherine Reimann

Lynn Ann Rickenback  
\*Janice Elayne Robinson  
Linda Lois Schaeffer  
\*Cynthia Scott Scott  
Jane Cable Scrine  
George Silver  
Marjorie Violet Smith  
\*Leslie Carole Stevenson  
Diane Annette Stewart  
Sharon Alice Strong  
Karen Elaine Stuart  
Shirley Ann Suiter  
Paula Irene Teal

Joyce Richter Thomasma  
Dianne Marie Torr  
Marilyn Louise Treutler  
Mary Ellen Van Zanden  
\*Andrea Karen Walton  
Victor Linn Washburn  
B. Caryn Welter  
Mary Jo Whitfield  
Linda Carole Winters  
Anna Lou Yarrington  
Mary Lou Zoerman

### DEGREE OF BACHELOR OF SCIENCE

#### *Health, Physical Education and Recreation*

Jeffrey Lynn Abrecht  
Michael Dearden Atwood  
Jay Dan Bach  
Frank Paul Benavidez  
Sylvester Rahn Bentley  
Joyce Marie Blackmore

Russell Clark  
James Lee Downs  
Donald Joseph Ferrio  
Dorothy Susan Helderman  
Clifford Alvin Girard  
Judith Ann Hendy  
Mary Elizabeth Hunter  
Robert Payette McKnight

Frederick Gene Mushinski  
Marvin Keith Pulver  
H\*Martha Lide Robertson  
Ronald Ralph Rubick  
Albert Leo Sickles

#### *Industrial Arts*

Clare W. Hathaway  
\*Thomas Casmir Kubanek

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# COLLEGE OF COMMUNICATION ARTS

FRED S. SIEBERT, DEAN

DEGREE OF  
MASTER  
OF ARTS

*Communication*

H. Stuart Hawkins  
Mushtag Ahmed

*Journalism*

Stanley C. Fedewa  
Boyd Leroy Miller

*Speech*

James Caleb Carver

*Television and Radio*

Joel Benoni Fleming

DEGREE OF  
BACHELOR  
OF ARTS

*Advertising*

\*Nancy Sue Baumhardt  
James Brian Fowler  
Ronald Joseph Harcarik  
Rackeline Joan Perry  
Thomas Joseph Wolf

*Communication*

H\*\*Alexis Adams Panshin

*Journalism*

Thomas Earle DeWitt  
Barbara Bradley Drake  
Arthur Michael Dworken

*Speech*

Dennis G. Brownridge  
Vena Jane Hauser  
Patricia Lee Keklak  
Susan Zeck

*Television and Radio*

Jack William Hickey  
Harry Cooper Howard  
Carl Borge Olson  
Brian Carl Rublein  
Carol Elaine Wilmot

DEGREE RECOMMENDED  
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OF EDUCATION

*Speech*

Barbara Jean Buck  
\*Janet Louise Chew  
Susan Lenore Cross  
Rita Gail Kirstein  
\*Melanie Marie Munton  
Barbara Ann Noga  
Sharon Stokes Regan  
Sandra G. Wald

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# COLLEGE OF ARTS AND LETTERS

PAUL A. VARG, DEAN

DEGREE OF MASTER OF ARTS	<i>English</i> Jane Frank Allinson Winnifred Ann Daignault Dana Downing Hobert Charles Moore	<i>German</i> Linda Ann Landau Gerhard John Reimer	Donal James Sexton, Jr. Karon Edith von Chawes
	<i>French</i> Frank Charles Necci Nourissa N. Mouradian	<i>History</i> Elizabeth Wadsworth Arnold David Francis Carpenter Barry Lee Knight	<i>Philosophy</i> Jan Arden Smucker
DEGREE OF MASTER OF MUSIC	<i>Music Education</i> Ardith Joan Hunt		
DEGREE OF BACHELOR OF ARTS	<i>Art Practice</i> *Margarette Eldred Beckwith Bruce Janes Bedell Joel Douglas Brown John Bernard Bullinger, Jr. Sandra Kee-Shui Chow Emily Mae Lam Dong H*Gwendolyn Lee Gertz Ann Carol Nichols Paul A. Pfeiffer Robert John Simonsen Robert Carl Stange Roger Edward Swartz	<i>English</i> *Rosann Margaret Camill Nancy Ellen Dockery H*Donna Ann Dulfon *Howard Stephen Hopkins Anne Carol Kellermann Marilyn Ann Lipscomb Nina Holliday Walker  <i>Far Eastern and Russian Studies</i> James Mark Timmins  <i>French</i> John William Mooney Jane Chamberlain Sullivan  <i>German</i> *Kathleen Anne Kelly	<i>History</i> **Donna Klayer Carpenter James Richard Dunn H*Kathryn Ann Garrett Robert Joseph Loria William David Mathes John C. Papayani Charles Phillip Weiss Mary Springer Wilkinson  <i>Humanities</i> *Roger Moorey Brown H*Jane Ellen Fremouw Melvin Lowell Mathias  <i>Russian</i> Mykola Ponomarenko
	<i>Arts and Letters</i> Frederick Frank Hull Marilyn Sue Lucas Robert Lloyd Schaibly, Jr. William King Springett		

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# COLLEGE OF ARTS AND LETTERS

DEGREE OF BACHELOR OF ARTS	<i>Spanish</i> Mauricio Alberto Alegria Susan Jones Coon Carol Ann Gusman Salvino Lostuzzi	Nancy Ann Shreeves *Anne McNamara Turley	<i>Latin</i> Diana Jean Ferguson
	DEGREE RECOMMENDED JOINTLY WITH THE COLLEGE OF EDUCATION	<i>English</i> Carol Ann Costello Tom Douglas Dougherty *Phyllis Anne Huerstel Martha Anne Jamieson Margaret Frances McLeod Rachel Ann Nash *Barbara Edith Pring RuthAnn Tennant	<i>History</i> David Paul Bennett Daniel Hart Borgman Robert William Clark Thomas John Emery Linda Anne Hall Pamela C. Henkel Sheila Ann Landon Kenneth Buel McNeill Michael Frank Miles Lawrence Leo Murray III Allan Nowak *Alan Lewis Offen Frances Terese Redmond Ann Converse Shelly *Bryan Louis Simsa Dennis Craig Smith Peter Harold Solomon *Marsha Grace Wiltshire
	<i>Art Practice</i> Kristin Lynn Andren Joyce Ellen Carter Barbara Ellen Culling Carol Sue Doyle John Robertson Harris Linda Sue Hathaway Natalie J. Manoogian William Robert Mitchell Karen Kay Schultz	<i>French</i> H**Sally Lu Meyer Susan Radebaugh Paape	
DEGREE OF BACHELOR OF FINE ARTS	<i>Art</i> *James Lewis Albright Hans Peter Jorgenson	<i>German</i> Dorothy Mary Caggegi Karen Marie Dayne H**Elli Bonkowski Maas	
		DEGREE RECOMMENDED JOINTLY WITH THE COLLEGE OF EDUCATION	
DEGREE OF BACHELOR OF MUSIC	<i>Music Therapy</i> **Kenneth Peter Medema	<i>Art</i> *Frances Ruth Annich	
		DEGREE RECOMMENDED JOINTLY WITH THE COLLEGE OF EDUCATION	
		<i>School Music</i> Edward James Meissner Irene Frances Ross Marilyn Kaye Withey	

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# COLLEGE OF NATURAL SCIENCE

RICHARD U. BYERRUM, DEAN

## DEGREE OF MASTER OF ARTS

*Mathematics*  
Frank E. Higginbotham

## DEGREE OF MASTER OF ARTS FOR TEACHERS

*General Science*  
Mary Magdalene Padua

*Mathematics*  
Donald Wallace Benbow

*Physics and Astronomy*  
Donald George Campbell

## DEGREE OF MASTER OF SCIENCE

*Biological Sciences*  
Kaiser Aziz  
Charles Robert Bursey

*Chemistry*  
Keith Edward Dahlman  
Rebecca Moorhead Jacobs  
Kenneth Randolph Price  
Doris Ann Wambach

*Entomology*  
Jon Roger Maki

*Geology*  
Adnan Baqir Al-Naqash

William Clifton Bishop  
Christopher Paul Egan  
John Harold Puffer

*Mathematics*  
David Emanuel Galewski  
Max Gilbert Gruendl  
Richard Carl Miller  
Allan Andrew Petersen  
James Russell Weaver

*Microbiology and Public  
Health*

Richard Michael Kocan  
Josephine M. Magis  
Carl Lloyd Winley

*Physics and Astronomy*  
William Bacon Chaffee  
Robert Joseph Heck  
George Taylor Johnston, III  
Vincent Alan Rowe

*Statistics*  
Richard John Fox  
Charles Joseph Kowalski  
Kang Ling  
Jerry Lee Moreno  
Robert Leonard Perry  
Montha Puavilai

## DEGREE OF BACHELOR OF ARTS DEGREE

DEGREE RECOMMENDED  
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OF EDUCATION

*Mathematics*  
Virginia Kay Macklem  
Alessio Guerrino Pretto  
H\*Gail Marie Sharkey

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# COLLEGE OF NATURAL SCIENCE

## DEGREE OF BACHELOR OF SCIENCE

### *Biological Sciences*

John Rowland Gehring  
Barry Allan Kinske  
Malcolm Hugh McDonald

### *Botany and Plant Pathology*

Christina Grace Filban  
H\*\*Janice Rittenhouse Matthews  
Ronald Stephen Slesinski  
Harry Charles Tweedie

### *Chemistry*

\*Ann Louise Ulland

### *Geology*

Michael William Barratt  
Michael Martin Spurgat  
Gordon Alan Yettaw

### *Mathematics*

Gerald LaRue Anderson  
H\*\*Susan Jeane Bartels  
H\*\*Carolyn Ann Burk  
H\*\*John Kenneth Cooper, Jr.  
H\*\*Stephen Elliott Crick, Jr.  
\*David Lee Glore  
H\*\*Ernest Sanford Grush  
James Milton Hanna  
John Philip Holcomb  
\*Diane Marie Kaye  
H\*\*Charles Thomas Klinger  
Marilynn Rae Nowak

### *Microbiology and Public Health*

Andrew Robert Clark

Ronald Anton Heinrichs  
Thomas Francis Heinrichs

### *Nursing*

H\*\*Anna Mae Berg  
Hazel Marie Pray

### *Physical Sciences*

Clifford Dan Line  
Hugh Karl Linnemann  
David Hugh Monroe  
Basil Ike Onukogu

### *Physics and Astronomy*

H\*\*Thomas MacDonald Rice

### *Statistics*

Roger Louis Anderson

### *Zoology*

Stuart Lewis Balaban  
H\*\*Maurice Charles Barone  
Thomas Vern Borkowski  
John Marshall Burgess  
Kin Ming Ching  
\*Peter Lenn Dalby  
\*Andrew Steven Dworkis  
Howard Allan Foote  
Phyllis Merry Harris  
H\*\*Kathleen Ruth Hoddinott  
James Michael Houck  
John Jay Madonna  
John Douglas McEachran  
William Henry Peck  
Allen Shifman  
Edward Levere Williams, Jr.

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### *Biological Science*

\*\*Sarah Naomi Abbott  
Thom Charles Blanck  
Dennis Dean Bromley  
William Lewis Heath  
\*Ronald H. Hoffman  
Jan Dianne Kline

### *Mathematics*

Thomas Wesley Bailey  
Jack Woods Bryant  
H\*Lawrence Robert Cartwright  
Lary LaVerne Ervin  
Eugene Paul Hubert  
William Clarence Jacobs  
Edward Magnus Nystrom  
Verne Bernard Purdy  
John Swire  
Robert Prather Wells

### *Zoology*

H\*\*Jeri Lynn Bischof

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# COLLEGE OF SOCIAL SCIENCE

LOUIS L. McQUITTY, DEAN

## DEGREE OF MASTER OF ARTS

### *Geography*

David Gordon Bennett  
Schuyler John Cox  
Donald George Janelle  
Donald Harry Shaffner  
Gail Patricia Wuerfel

### *Political Science*

Casimir Alfred Bobinski  
Eric Henning Carlson

### *Albert Kaufman*

Bernard James McShane  
Umesh Pant  
Warren James Shadko

### *Psychology*

Norman J. Karl  
Miles Edward Simpson  
Harvey A. Tilker

### *Sociology*

Snit Smuckarn  
Ronald Dean Willis

## DEGREE OF MASTER OF PUBLIC ADMINISTRATION

Michael Anthony Conway  
Richard Edmond Miller

## DEGREE OF MASTER OF SCIENCE

### *Police Administration*

Esther Middleton Eastman  
Everett Paul Leek

Harold Robert Young

## DEGREE OF MASTER OF URBAN PLANNING

Richard Allen Maltby

## COLLEGE OF SOCIAL SCIENCE

### DEGREE OF BACHELOR OF ARTS

#### *Anthropology*

\*Anne Marie Tibbits

#### *Geography*

George John Mayer  
Duane Lee Riley

#### *Political Science*

Thomas Michael Boven  
George Richard Boyle  
David Lee Buchanan  
William Douglas Corneliuson  
Charles Darwin Dobias

\*\*Robert William Herr

H\*\*John Walter Keating  
Lawrence William Leck

H\*\*Kathleen Mary Simons

Forest Ainslee Walker

H\*\*Richard Stewart Wasserstrom  
Lee Williams

Michael Paul Wilson

\*Paul Joseph Zimmer

#### *Psychology*

H\*Dana Gail Corbin

Joseph Frank DiBucci

Barton Reed Friese

Daniel Goldstein

John Gaines Greenhill

Dale Richard Guldbrandsen

Nick Michael Kostopoulos

Richard David Lyons

Robert Lee Mills

\*William E. Proulx

Kathleen Rafferty

\*Joyce Mary Remondini

Elena Agnes Seuffert

H\*\*Michael Jeffery Stark

Cornelius VanderVeen

Lawrence Charles Widmayer,  
Jr.

\*Ross Amos Wotring

#### *Social Science*

Gordon Bruce Alexander

Alan Richard Benison

William Paul Bodwitch

Frank Anthony Borgon

Richard Desire Bruneau, Jr.

Christine Lois Burch

James Charles Chmielewski

John Terrance Connolly

Frederick Collin Crosby, Jr.

Daniel William Curry

Candace K. Ensign

\*Charles Lynn Fierz

Judith Severt Gazegian

Karyl Jean Goldberg

H\*\*Richard Edwin Guffey

Henry Barksdale Hagood

David Lawrence Hitzig

Jack Christopher Hutson

Claudine Gruber McIntosh

Ronald Wallace Metcalf

MaDan Matthew Pallick

Thomas Edward Patridge

Patrick Michael Prendergast

\*Richard Marshall Sawdey

Cecil Robert Sefton

Lawrence Howard Shanker

John Kalman Solosy II

Brooks Allen Solterman

James Lee Tuman

Charlene Lee Tyllas

R. Charles Ver Merris

Todd Rhoades Williams

Kathryn Mary Wolak

Karen Rumer Wollam

James Wilfred Zacklan

Steve Mark Zamler

#### *Social Work*

Elaine Neithofer Brake

Joanne Brundage Damman

Peggy Ann Meyer

Richard Morales

Alfred Wendell Pryor

#### *Sociology*

John R. Alexander

Judith Joyce Edgmand

H\*\*Robert Wayne Crossman

Charles Frederick Hartner

H\*\*Joyce Ann Ketlar

Andres Kivilaan

Nels Victor Marin, Jr.

Michael Gary Pasternak

DEGREE RECOMMENDED  
JOINTLY WITH THE COLLEGE  
OF EDUCATION

#### *Social Science*

Charles Michael Donahue

Larry Lynn Foster

Robert Earl Harburn, Jr.

Amory Marie Hingelberg

Barbara Jane Magioncalda

Laureen Louise Pinkerman

John Ray Reed

John Richard Sharer

### DEGREE OF BACHELOR OF SCIENCE

#### *Landscape Architecture*

Joseph Paul Figa, Jr.

\*Thomas Wayne Kehler

Robert Hugh Knowles

\*\*Timothy William Larsen

Lawrence Carl Miller

James Lewis Van Deusen

Ronald Alan Williamson

Harry Edward Woelzlein

Jurate Grazina Ziogas

#### *Police Administration and Public Safety*

Robert Charles Betchel

H\*\*Jerry George Burrow

Suzanne Jane Cianfarani

Lewis Moreau Doyle, Jr.

Gary Michael Drasin

H\*\*Robert Earl Enyeart

R. David Freriks

Mary-Kaye Goodman

David Michael Humphrey

Richard Grant Juster

Larry Allen Littlefield

Claude Eugene Long

Robert L. Parsons

Jerry Dennis Stemler

Loren Walter Tarnowski

\*Roy Stanford Van Sickle

James Edward Wells

#### *Psychology*

\*Wallace George Berger

\*Michael Cass

H\*Margaret J. Gibbs

Ronald Joseph Hurley

#### *Urban Planning*

Eric Jay Berry

H Honors College  
\* With Honor  
\*\* With High Honor



# RESERVE OFFICERS TRAINING CORPS

The following students have completed their ROTC Training at Michigan State University and have received their commissions as reserve officers of the United States Air Force or as officers of the United States Army in the branches indicated.

## AIR

James T. Delaney  
Charles D. Dobias  
\*Ronald A. Kratt

Hugh K. Linnemann  
William H. Peck  
William H. Stroven

\*Ross A. Wotring

## SCIENCE

## MILITARY

## SCIENCE

*Adjutant General's Corps*  
Thomas J. Emery

*Artillery*  
Stuart L. Balaban  
Ronald W. Metcalf  
William G. Rosendale

*Corps of Engineers*  
George Aoki

*Military Police Corps*  
John M. O'Hara

*Medical Service Corps*  
Thomas V. Borkowski  
John R. Rachfal

*Ordnance Corps*  
Lewis E. Clem  
Nicholas C. Steen  
Gary M. Van Ornum

*Quartermaster Corps*  
Barry R. Miller

\*Distinguished Graduates