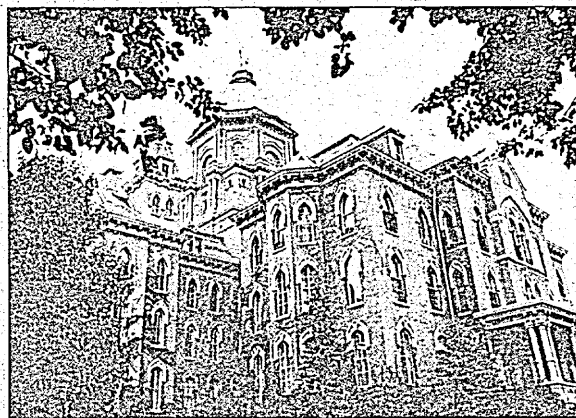


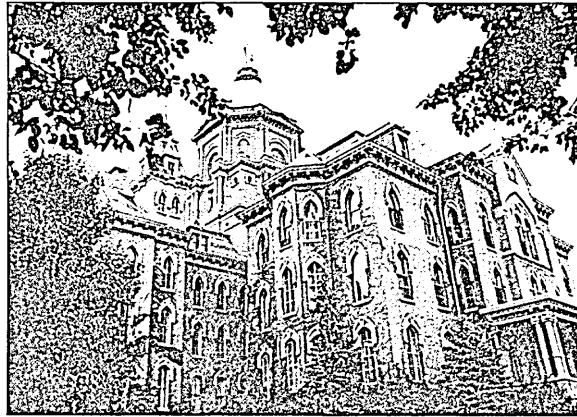
The  
University of  
Notre  
Dame  
1981



Commencement  
August 7

OFFICIAL

The  
University of  
Notre  
Dame  
1981



Commencement  
August 7

Events of the Day

## Events of the Day

*Friday, August 7, 1981*

### BACCALAUREATE MASS

8:35 a.m. Graduates assemble in Administration Building, Main Floor, for Academic Procession to Sacred Heart Church

8:50 a.m. Academic Procession departs for Sacred Heart Church

9:00 a.m. Concelebrated Baccalaureate Mass— Sacred Heart Church

Presiding Celebrant and Homilist:  
Rev. David T. Tyson, C.S.C.

#### Concelebrants:

Priests who will receive degrees at the August Commencement Exercises, priest members of the faculty, and priest members of the Congregation of Holy Cross

### COMMENCEMENT EXERCISES CONFERRAL OF DEGREES

10:30 a.m. Graduates assemble in Athletic and Convocation Center—Auxiliary Gym (located between Gates 1 and 2)

10:50 a.m. Academic Procession begins

11:00 a.m. Commencement Exercises — Conferral of Degrees — Athletic and Convocation Center, Concourse

#### Commencement Address:

Frederick J. Crosson, Ph.D.  
John Cardinal O'Hara Professor of Philosophy

(Guests are requested to please be seated on the Concourse in Athletic and Convocation Center no later than 10:50 a.m.)

# Baccalaureate Mass

Sacred Heart Church  
University of Notre Dame  
Notre Dame, Indiana  
at 9 a.m. (Eastern Standard Time)  
Friday, August 7, 1981

*Presiding Celebrant*  
Rev. David T. Tyson, C.S.C.

*Concelebrants*  
Priests who will receive degrees  
at the August Commencement Exercises,  
priest members of the faculty,  
priest members of the Congregation of Holy Cross

*MUSIC MINISTERS:*  
*Organist*  
Mr. Paul Skevington

*Cantor*  
Rev. Peter D. Rocca, C.S.C.

*The Elkhart Symphony Brass Quintet*  
Mr. Craig Heitger, trumpet  
Mr. Thomas Horein, trumpet  
Mrs. Peggy Horein, French Horn  
Mr. John Bencsics, trombone  
Mr. Sam Gnagey, tuba

# BACCALAUREATE MASS

## Opening Rites

### PRE-SERVICE MUSIC

*Quintett in B Moll*..... Ewald  
*Canzona Bergamasca*..... Scheidt  
*Contrapunctus I*..... Bach

### PROCESSIONAL

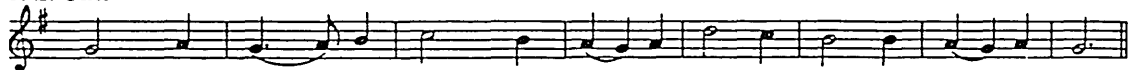
*Canzona Per Sonare No. II*..... Gabrielle  
*Two Ayres*..... Adson  
*Two Pieces*..... Holborne

### ENTRANCE HYMN

#### Praise the Lord, O Heavens

1,2: Foundling Hospital Collection  
3: E. Osler

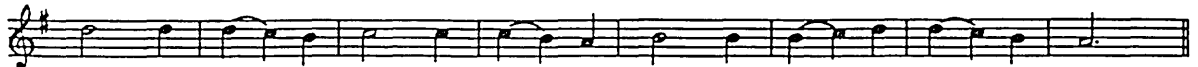
R. H. Prichard



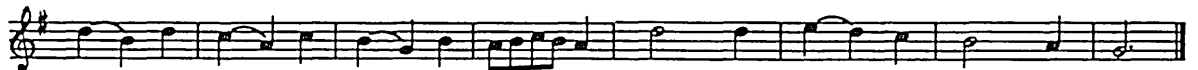
1. Praise the Lord, O heav'ns, a - dore him; Praise him, an - gels in the height;  
2. Praise the Lord, for he is glo - rious, Nev - er shall his prom - ise fail;  
3. Wor - ship, hon - or, glo - ry, bless - ing, Lord, we of - fer un - to thee;



1. Sun and moon, re - joice be - fore him; Praise him, all ye stars of light.  
2. God has made his saints vic - to - rious Sin and death shall not pre - vail.  
3. Young and old, thy praise ex - press - ing, In glad hom - age bend the knee.



1. Praise the Lord, for he has spo - ken; Worlds his might - y voice o - beyed;  
2. Praise the God of our sal - va - tion; Hosts on high, his power pro - claim;  
3. All the saints in heav'n a - dore thee, We would bow be - fore thy throne;



1. Laws which nev - er shall be bro - ken, For their guid - ance he has made.  
2. Heav'n and earth and all cre - a - tion, Praise and mag - ni - fy his name.  
3. As thine an - gels serve be - fore thee, So on earth thy will be done.

### GREETING + PENITENTIAL RITE

### OPENING PRAYER



## Liturgy of the Word

### FIRST READING

Dt. 4:32-40

*The Lord God loved your ancestors  
and chose their descendants after them.*

### RESPONSORIAL PSALM

Psalm 89

J. R. Carroll



### GOSPEL ACCLAMATION

D. C. Isele



### GOSPEL

Matthew 16:24-28

*What can a person give in  
exchange for his life?*

### HOMILY

### GENERAL INTERCESSIONS

*Response: Lord, hear our prayer*



# Liturgy of the Eucharist

## PREPARATION OF THE GIFTS

*Pavane* ..... Byrd  
*Fantasia* ..... Boyce

## PRAYER OVER THE GIFTS

### Eucharistic Prayer

#### PREFACE + SANCTUS

R. Proulx



Ho - ly, ho - ly, ho - ly Lord, God of pow-er and might.



Heav'n\_\_\_ and earth\_\_\_ are full\_\_\_ of your glo - ry. Ho -



san - na in the high - est, ho - san - na in the high - est.



Blest is he who comes\_ in the name\_ of the Lord. Ho -



san - na in the high - est, ho - san - na in the high - est.\_\_\_\_

#### MEMORIAL ACCLAMATION



When we eat this bread and drink this cup,



we pro-claim your death Lord Je-sus, un-til you come in glo-ry.

R. Proulx

## GREAT AMEN

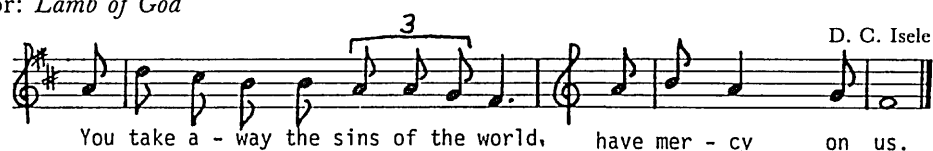


## Communion Rite

### LORD'S PRAYER + SIGN OF PEACE

### BREAKING OF THE BREAD + LAMB OF GOD

Cantor: *Lamb of God*



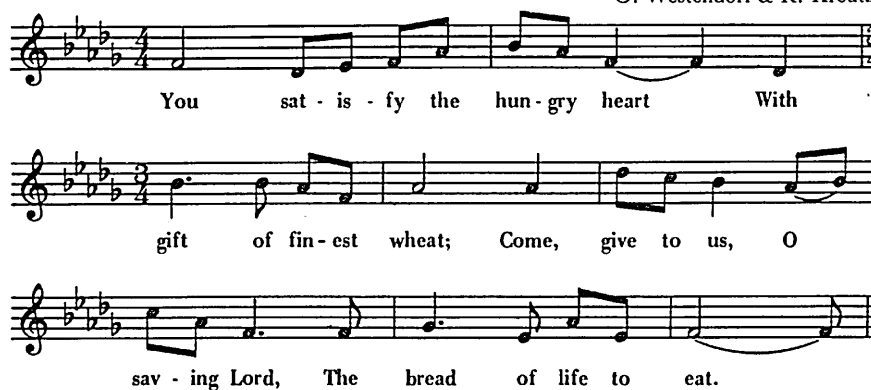
When the cantor and choir repeat Lamb of God . . . sins of the world, please sing:



## COMMUNION

### Gift of Finest Wheat

O. Westendorf & R. Kreutz



## POSTCOMMUNION PRAYER



# Closing Rite

## BLESSING + DISMISSAL

Notre Dame, Our Mother O'Donnell-Casasanta  
 Notre Dame, Our Mother, tender, strong and  
 true

Proudly in the heavens gleams thy gold and blue.  
 Glory's mantle cloaks thee, golden is thy fame  
 And our hearts forever praise thee, Notre Dame:  
 And our hearts forever love thee, Notre Dame.

## CLOSING HYMN

### All Creatures of Our God and King

text: Francis of Assisi  
 Tr. Wm. H. Draper  
 tune: Geistliche Kirchengesänge

1. All crea - tures of our God and King,  
 2. O rush - ing wind and breez - es soft

Lift up your voice with us and sing:  
 O clouds that ride the winds a - loft:

Al - le - lu - ia, Al - le - lu - ia!  
 Oh, praise Him! Al - le - lu - ia!

O burn - ing sun with gold - en beam  
 O ris - ing morn, in praise re - joice,

And sil - ver moon with soft - er gleam:  
 O lights of eve - ning, find a voice.

Refrain:

Oh, praise Him! Oh, praise Him! Al - le - lu - ia,  
 Al - le - lu - ia, Al - le - lu - ia!

- |   |   |
|---|---|
| <p>3. O flowing waters, pure and clear,<br/>             Make music for your Lord to hear.<br/>             Oh, . . . praise him! Alleluia!<br/>             O fire so masterful and bright,<br/>             Providing us with warmth and light,<br/>             Oh, praise him! Oh, praise him!<br/>             Alleluia, alleluia, alleluia,</p> | <p>4. Let all things their Creator bless<br/>             And worship God in humbleness.<br/>             Oh, praise him! Alleluia!<br/>             Oh, praise the Father, praise the Son,<br/>             And praise the Spirit, Three in One,<br/>             Oh, praise him! Oh, praise him!<br/>             Alleluia, alleluia, alleluia!</p> |
|---|---|

#### Copyright Information

G.I.A.: Psalm response, "Forever I will sing," from Worship II by J. R. Carroll;  
 Gospel acclamation from "The Notre Dame Mass" by D.C. Isele;  
 Sanctus from "The Community Mass" by R. Proulx;  
 Memorial acclamation and Great Amen from "A Festival Eucharist" by R. Proulx;  
 Agnus Dei from "The Holy Cross Mass" by D.C. Isele  
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 Eucharist Congress, Inc., Philadelphia, Pa., 1976

# One Hundred Thirty Sixth Commencement Exercises

The Graduate School  
The Law School  
The College of Arts and Letters  
The College of Science  
The College of Engineering  
The College of Business Administration

Athletic and Convocation Center  
(Concourse)

University of Notre Dame  
Notre Dame, Indiana

At 11 a.m. (Eastern Standard Time)  
Friday, August 7, 1981

## Order of the Exercises

### Processional

America, the Beautiful—

*O beautiful for spacious skies,  
For amber waves of grain  
For purple mountain majesties  
Above the fruited plain.  
America! America!  
God shed his grace on thee,  
And crown thy good with brotherhood  
From sea to shining sea.*

### Presentation of Candidates for Degrees

by Chau T. M. Le, Ph.D.  
Assistant Vice President for Advanced  
Studies: Instruction

by Isabel Charles, Ph.D.  
Dean of the College of Arts and Letters

by Daniel H. Winicur, Ph.D.  
Assistant Dean of the College of Science

by Roger A. Schmitz, Ph.D.  
Dean of the College of  
Engineering

by Edward R. Trubac, Ph.D.  
Director of Institutional  
Administration Program

### The Conferral of Degrees

by Robert E. Gordon, Ph.D.  
Vice President for Advanced Studies

### Commencement Address

Frederick J. Crosson, Ph.D.  
John Cardinal O'Hara  
Professor of Philosophy

### Closing Remarks

Vice President for Advanced Studies

### Notre Dame, Our Mother—

*O'Donnell-Casasanta  
Notre Dame, Our Mother, tender, strong  
and true,  
Proudly in the heavens gleams thy gold  
and blue  
Glory's mantle cloaks thee, golden is thy  
fame  
And our hearts forever praise thee, Notre  
Dame:  
And our hearts forever love thee, Notre  
Dame.*

### Recessional of the Platform Party

## In the Graduate School

THE UNIVERSITY OF NOTRE DAME  
CONFERS THE FOLLOWING DEGREES  
IN COURSE:

THE DEGREE OF DOCTOR OF  
PHILOSOPHY ON:

Michael Bjerknes Aune, Bucyrus, North Dakota

Major subject: Theology. Dissertation: Doctrine and Doxology: Toward a Creative Balance in American Lutheran Liturgical Theology and Practice, 1946-1976. Director: Dr. Edward Kilmartin, S.J.

Kenneth Frank Bartizal, Jr., North Riverside, Illinois

Major subject: Microbiology. Dissertation: The Gnotobiotic Gerbil as an Animal Model for Cholesterol and Bile Acid Metabolism. Director: Dr. Bernard S. Wostmann.

Kathryn Larsen Burgio, Northfield, Vermont

Major subject: Psychology. Dissertation: The Effects of Self-Focused Attention and Performance Expectancies on Social Interaction. Director: Dr. Thomas V. Merluzzi.

Carol Beth Finkel, Cherry Hill, New Jersey

Major subject: Psychology. Dissertation: Cognitive Processing of Affectively-Toned Adjectives in Depression. Director: Dr. Thomas V. Merluzzi.

Ghassan Mahmoud Fawzi Hamad, Riyad, Saudi Arabia

Major subject: Mechanical Engineering. Dissertation: Sound Generated in a Cascade of Airfoils by Three-Dimensional Disturbances Convected in a Subsonic Flow. Director: Dr. Hafiz Atassi.

Fun-Gau Ho, Taiwan, Republic of China

Major subject: Chemical Engineering. Dissertation: Diffusive Mass Transport in Porous Medium. Director: Dr. William C. Strieder.

Michaelleen Buczek Kelly, Grand Rapids, Michigan

Major subject: Philosophy. Dissertation: Moral Responsibility and Punishment. Director: Dr. James P. Sterba.

Phillip Gregory Mattingly, Louisville, Kentucky

Major subject: Chemistry. Dissertation: The Synthesis of 2-Azetidinones from O-Substituted Hydromates: A Synthesis of 3-Aminonocardinic Acid. Director: Dr. Marvin J. Miller

Michael James McGinniss, Wheaton, Maryland

Major subject: Theology. Dissertation: The Appropriation of New Theology by the Laity: A Pastoral-Theological Case Study of a Renewal Program in St. Victor Parish. Director: Dr. William Storey.

Michael F. McLean, Notre Dame, Indiana

Major subject: Philosophy. Dissertation: An Exposition and Defense of St. Thomas Aquinas' Account of the Rational Justification of Religious Belief. Director: Dr. Gary Gutting.

Graduate School

William Schaffner Miller, Claymont, Delaware  
Major subject: Government and International Studies. Dissertation: An Evaluation of the Legal Philosophies of Lon Fuller and Jerome Hall as Responses to Legal Positivism. Director: Dr. Gerhart Niemeyer.

Douglas Allen Norris, Jr., Bay Village, Ohio  
Major subject: Mathematics. Dissertation: Isometries Homotopic to the Identity on Manifolds of Negative Curvature. Director: Dr. Alan Howard.

Kathleen B. O'Gorman, Scranton, Pennsylvania  
Major subject: English. Dissertation: Phenomenology of Perception in the Early Poetry of Charles Tomlinson. Director: Dr. John E. Matthias.

Arun Keshav Pande, Yavatmal, India  
Major subject: Electrical Engineering. Dissertation: New Approach to Speech Digitization Combining Time Domain Harmonic Scaling and Adaptive Residual Coding. Director: Dr. James L. Melsa.

Kevin Michael Pernicano, Broomall, Pennsylvania  
Major subject: Psychology. Dissertation: Relationship of Sex and Complexity to Vocational Maturity Measures and Vocational Choice. Director: Dr. Willis E. Bartlett.

Pamela Lynn Plouhar, South Bend, Indiana  
Major subject: Chemistry. Dissertation: Modulation by Phospholipids of Dolichol Pyrophosphate N-acetylglucosamine Synthesis in Rat Lung Membranes. Director: Dr. Roger K. Bretthauer.

Stephen Rozak, Philadelphia, Pennsylvania  
Major subject: Physics. Dissertation: Recoil Distance Lifetime Measurements of the Nuclei  $^{146}\text{Sm}$  and  $^{147}\text{Eu}$ , Using (HI, xn $\gamma$ ) Reactions. Co-Directors: Dr. John W. Mihelich and Dr. Emerson G. Funk.

Georgia Theofan, Brooklyn, New York  
Major subject: Biology. Dissertation: The *In Vitro* Synthesis of Final Maturational Steroids by Ovaries of Brook Trout (*Salvelinus fontinalis*) and Yellow Perch (*Perca flavescens*). Director: Dr. Frederick W. Goetz.

Michael Warren Williams, Washington, D.C.  
Major subject: Sociology and Anthropology. Dissertation: The Relationship between Nkrumahism and Twentieth Century Leftist Thought in the African World. Director: Dr. Joseph W. Scott.

THE DEGREE OF MASTER  
OF MUSIC ON:

Jeanne E. Gnecco, Michigan City, Indiana

THE DEGREE OF MASTER OF ARTS ON:

- John Edward Ambrose, Mississauga, Ontario, Canada  
Major subject: Theology (Liturgy).
- Harry Lawrence Anderson, Duluth, Minnesota  
Major subject: Theology.
- Mary Jo Baldus, R.S.M., Cedar Rapids, Iowa  
Major subject: Theology (Liturgy).
- Arlene Bennett, R.S.M., Detroit, Michigan  
Major subject: Theology (Liturgy).
- Eleanor M. Bernstein, C.S.J., New Orleans, Louisiana  
Major subject: Theology (Liturgy).
- Nicholas George Brogno, Hazleton, Pennsylvania  
Major subject: Theology.
- Michael Anthony Brown, Laurel, Montana  
Major subject: Philosophy. Thesis: Contra the Metaphors of Semantical Contact and Rational Compulsion. Director: Dr. William David Solomon.
- William Kent Burtner, O.P., Santa Fe, New Mexico  
Major subject: Theology (Liturgy).
- Jean C. Campbell, O.S.H., New York, New York  
Major subject: Theology (Liturgy).
- Mark J. Cavanaugh, C.F.C., Rochester, New York  
Major subject: Sociology and Anthropology.
- Mark Timothy Chock, Glenview, Illinois  
Major subject: Counseling Psychology.
- Domenic Leo Cieri, Jr., Baltimore, Maryland  
Major subject: Theology (Liturgy).

- Charles Michael Comiskey, Connellsville, Pennsylvania  
Major subject: Economics.
- Richard Francis Cousins, C.S.C., Alexandria, Virginia  
Major subject: Theology.
- Paul Francis Covino, Shrewsbury, Massachusetts  
Major subject: Theology (Liturgy). Thesis: The Question of Infant Baptism in the American Catholic Church: 1965-1980. Director: Dr. Mark Searle.
- John Patrick Cruitt, Jersey City, New Jersey  
Major subject: English.
- Diane V. DesBois, Gardner, Massachusetts  
Major subject: Theology (Liturgy).
- Sister Christine DeVinne, O.S.U., Cleveland, Ohio  
Major subject: English.
- Michael Anthony Diaz, Amarillo, Texas  
Major subject: English.
- Mary K. Dutko, S.S.J., Chicopee, Massachusetts  
Major subject: Theology (Liturgy).
- Alicia Anne Finn, Lynbrook, New York  
Major subject: Psychology. Thesis: Learned Helplessness: An Extension. Director: Dr. Carroll W. Tateson.
- Sheila May Finnerty, Ottawa, Ontario, Canada  
Major subject: Theology (Liturgy).
- James Lloyd Gates, Jr., Apopka, Florida  
Major subject: Government and International Studies.

## Graduate School

- Rev. Robert Harrison Glass, C.S.B., Albuquerque,  
New Mexico  
Major subject: History.
- Sister Donna Graham, Cincinnati, Ohio  
Major subject: Theology.
- Jaculyn Collins Hanrahan, Stamford, Connecticut  
Major subject: Theology (Liturgy).
- Kenneth James Hedrick, New Orleans, Louisiana  
Major subject: Theology (Liturgy). Thesis:  
The Ordination Prayers of the *Apostolic Tradition*  
and of the Early Roman Sacramentaries:  
A Comparative Study. Director: Dr. Mark  
Searle.
- Scott Alan Hickey, South Bend, Indiana  
Major subject: Counseling Psychology.
- Michael Anthony Huck, Methuen, Massachusetts  
Major subject: English.
- Robert Martin Hutmacher, O.F.M., Chicago,  
Illinois  
Major subject: Theology (Liturgy).
- Sister Mary Therese Johnson, O.P., Chicago,  
Illinois  
Major subject: Theology (Liturgy).
- Charles P. Jumonville, Lafayette, Louisiana  
Major subject: Theology.
- Mary M. Kelley, S.S.J., Wilmington, Delaware  
Major subject: History.
- Jeffrey Michael Kemper, Cincinnati, Ohio  
Major subject: Theology (Liturgy).
- Thomas Peter King, C.S.C., Notre Dame,  
Indiana  
Major subject: History.
- Veronica Koperski, Detroit, Michigan  
Major subject: Theology.
- Theodore Alfred Kowar, Jr., Newington,  
Connecticut  
Major subject: Theology (Liturgy).
- John Andrew Kroncke, Berrien Springs, Michigan  
Major subject: Counseling Psychology.
- Scott Wesley Kunka, Monessen, Pennsylvania  
Major subject: Government and International  
Studies.
- Frank A. LaGrotta, Ellwood City, Pennsylvania  
Major subject: Communication Arts.
- Maureen P. Lambe, Weymouth,  
Massachusetts  
Major subject: Communication Arts.
- Edmund Oliver Lawler, Phoenix, Arizona  
Major subject: Government and International  
Studies.
- Barbara Christine Lonnquist, S.S.J., Bethlehem,  
Pennsylvania  
Major subject: English.
- Mary A. Lynch, S.S.J., High Point, North  
Carolina  
Major subject: Theology (Liturgy).
- Mary Ann Marguerite Maradik, Cudahy,  
Wisconsin  
Major subject: Theology (Liturgy).
- Agnes Marini, Pittsford, New York  
Major subject: Counseling Psychology.
- Timothy Charles McFadden, Medford, New  
Jersey  
Major subject: Counseling Psychology.
- Timothy Michael McKeogh, Chagrin Falls, Ohio  
Major subject: Communication Arts.
- Delouise Jane Menges, Cincinnati, Ohio  
Major subject: English.
- Marie A. Miller, South Bend, Indiana  
Major subject: English.
- Ronald Ralph Milligan, Dearborn, Michigan  
Major subject: Theology (Liturgy).
- Margaret Ann Mitchell, Cincinnati, Ohio  
Major subject: English.

Carlos Enrique Moreno M, Colombia, South America  
Major subject: Economics.

Robert Matthew Mundy, Tamaqua, Pennsylvania  
Major subject: Government and International Studies.

Martha Anne Munsell, Waterford, Connecticut  
Major subject: English.

Helen Elizabeth Naylor, Seaford, Delaware  
Major subject: Counseling Psychology.

Rev. Raymond Joseph Novak, Oak Park, Illinois  
Major subject: English.

John F. O'Connor, Chapel Hill, North Carolina  
Major subject: Theology (Liturgy).

Marianne O'Malley, S.S.J., Washington, D.C.  
Major subject: English.

Susan Ann O'Rourke, Somerset, Massachusetts  
Major subject: English.

James Raymond Osendorf, Camarillo, California  
Major subject: Theology (Liturgy).

S. Maria Goretti Pino, S.S.J., Philadelphia, Pennsylvania  
Major subject: Theology (Liturgy).

Fidelis E. Portuondo, O.S.B., Saint Leo, Florida  
Major subject: Theology (Liturgy).

Sister Patricia Rinn, Chicago, Illinois  
Major subject: Theology (Liturgy).

Jacquelyn Jean Rivas, McLean, Virginia  
Major subject: Economics.

Timothy John Roemer, Mishawaka, Indiana  
Major subject: Government and International Studies.

Constance Mary Rousseau, Westport, Massachusetts  
Major subject: History.

Ricardo Arturo Samaniego, El Paso, Texas  
Major subject: Economics.

Thomas Allen Saporito, Warren, Pennsylvania  
Major subject: History.

John Benten Scarano, Mountaintop, Pennsylvania  
Major subject: Theology.

Karen Anne Schwarz, Burlingame, California  
Major subject: Counseling Psychology.

Sister Sheila Shea, Sylvania, Ohio  
Major subject: Communication Arts.

Kathy Melinda Shellogg, Poland, Ohio  
Major subject: Counseling Psychology.

Thomas Gerald Simons, Grand Rapids, Michigan  
Major subject: Theology (Liturgy).

Karen Sue Smith, Phoenix, Arizona  
Major subject: Theology (Liturgy).

Rev. David Alexander Stachurski, Rensselaer, New York  
Major subject: Theology (Liturgy).

Laura Ann Stanko, Oxford, Connecticut  
Major subject: Theology.

Sister Patricia J. Thomas, O.P., Columbus, Ohio  
Major subject: English.

Paul Joseph Tracey, Janesville, Wisconsin  
Major subject: Theology.

John Michael Ulrich, Atlanta, Georgia  
Major subject: Theology.

Cynthia Elizabeth Urda, Stamford, Connecticut  
Major subject: Government and International Studies.

Alice Marie Vargas, Kansas City, Missouri  
Major subject: Psychology. Thesis: The Effects of Physical Attractiveness and Counseling Skills on Therapy. Director: Dr. John G. Borkowski.

John Earl Wagner, Tinley Park, Illinois  
Major subject: English.

Tim Joseph Watts, Chanute, Kansas  
Major subject: History.

Renée Louise Wauters, Wheeling, Illinois  
Major subject: Communication Arts.

Judith Ann Zielinski, O.S.F., Sylvania, Ohio  
Major subject: Communication Arts.



THE DEGREE OF MASTER  
OF SCIENCE ON:

Peter Francis Heid, Erie, Pennsylvania

Major subject: Chemistry. Thesis: A Study of the Chemoselectivities and Relative Reactivities in the Cycloaddition Reactions of Allenes with N-Phenylmaleimide and Tetraphenylcyclopentadienone. Director: Dr. Daniel J. Pasto.

Francis Joseph Timmers, Kaukauna, Wisconsin

Major subject: Chemistry. Thesis: The Reactions of Biscyclopentadienyl Niobium and Tantalum Trihydrides with Manganese Carbonyl Compounds. Director: Dr. Jay A. Labinger.

Albert Paul Tomchaney, Glenwood, Illinois

Major subject: Biology. Thesis: The Purification and Characterization of a Thermal Hysteresis Protein from the Larva of *Tenebrio molitor*. Director: Dr. John G. Duman.

THE DEGREE OF MASTER OF SCIENCE  
IN AEROSPACE ENGINEERING ON:

Francis Michael Payne, Montclair, New Jersey

Thesis: An Experimental Investigation of the Influence of Vertical Wind Shear on the Aerodynamic Characteristics of an Airfoil. Director: Dr. Robert C. Nelson.

THE DEGREE OF MASTER OF SCIENCE  
IN CHEMICAL ENGINEERING ON:

Luis Alberto Amestica, San Vicente De Tagua Tagua, Chile

Mayank Raman Patel, Bombay, India

David Lee Ramsey, Rantoul, Illinois

Luis Frias Razon, Manila, Philippines

THE DEGREE OF MASTER OF SCIENCE  
IN CIVIL ENGINEERING ON:

Jin-Gio Chang, Kaohsiung, Taiwan, R.O.C.

Thesis: Minor Axis Behavior of Partially Restrained Nonsway Imperfect Steel Columns. Director: Dr. Zia Razzaq.

THE DEGREE OF MASTER OF SCIENCE  
IN ELECTRICAL ENGINEERING ON:

Shekhar Yeshwant Borkar, Andheri, Bombay, India

Thesis: Microcomputer Control of the Raman Spectrometer. Director: Dr. Eugene W. Henry.

THE DEGREE OF MASTER OF SCIENCE  
IN ENVIRONMENTAL HEALTH  
ENGINEERING ON:

Mary Anne Pleasants Lowndes, Middleton, Wisconsin

Thesis: The Use of a Glucose-Fed Sequencing Batch Reactor as a Research Tool. Director: Dr. Robert L. Irvine.

Lawrence Eugene Padgett, Loogootee, Indiana

Thesis: Factors Affecting the Concentration of Heavy Metals in Municipal Sludge Ash Leachate. Director: Dr. Thomas L. Theis.

Carl Joseph Wierdak, Chicago, Illinois

Thesis: CASBRA—A Computer Program for Sequencing Batch Reactor Wastewater Treatment Facilities Analysis. Director: Dr. Robert L. Irvine.

THE DEGREE OF MASTER OF SCIENCE  
IN MECHANICAL ENGINEERING ON:

James Cahir, Mahwah, New Jersey

Thesis: Vaporization of Liquid Fuel Spheres with and without Diffusional Combustion under Free Convective and Radiative Heating. Director: Dr. A. Murty Kanury.

THE DEGREE OF MASTER OF SCIENCE  
IN METALLURGICAL ENGINEERING  
AND MATERIALS SCIENCE ON:

James Lee Hoffman, Granger, Indiana

THE DEGREE OF MASTER OF SCIENCE  
IN ADMINISTRATION ON:

Martha Ann Abshire, Lafayette, Louisiana  
Michael Richard Apa, Ithaca, New York  
Sister Catherine Marie Austin, Bayonne, New Jersey  
Gaither Emmanuel Bailey, South Bend, Indiana  
Richard Bishop, Lynn, Massachusetts  
Sister Martinelle Bonnell, Clinton, Iowa  
Walter Duane Bowman, South Bend, Indiana  
Robert Norris Cathcart, Portland, Michigan  
James J. Close, Chicago, Illinois  
Sister Lisbeth Cruz, O.S.B., Bristow, Virginia  
Mary Colleen Drews, Knox, Indiana  
Brother William Francisco Drury, C.S.C., Portland, Oregon  
Sister M. Sylvia Egan, Tulsa, Oklahoma  
Sister Eleanor Marie Ellis, Buffalo, New York  
Kenneth Robert Emery, Elmira, New York  
Sister Juanita Marie Gonzales, Mount St. Joseph, Ohio  
Dorothy M. Harkin, Philadelphia, Pennsylvania  
Ann Patrice Helmen, South Bend, Indiana  
Sister Margaret Horney, O.S.F., Oldenburg, Indiana  
Elizabeth M. Horton, Hebron, Connecticut  
Lois E. Jackson, Birmingham, Michigan

Sister Susan Knutson, O.S.F., Little Falls, Minnesota  
Sister Marianna Kosior, O.S.F., Springfield, Illinois  
Sister Joan Krajewski, O.P., Adrian, Michigan  
Sister Dorothy Marie Langlois, C.S.C., South Bend, Indiana  
Sister Therese E. LeGros, Littleton, New Hampshire  
Rosalie L. Martin, El Paso, Texas  
G. James Miller, Cumberland, Maryland  
Sister M. Bonaventure Moschenross, Colorado Springs, Colorado  
Sister Eileen Bridget Murphy, S.S.J., Holyoke, Massachusetts  
Carol Idilia Nelson-Douglas, South Bend, Indiana  
Curtis J. Nielsen, Brainerd, Minnesota  
Sister Marilyn Oliver, O.S.F., Mishawaka, Indiana  
Sister Josephine Paolinelli, S.P., Chicago, Illinois  
Sister Regina Pellegrini, Washington, D.C.  
Howard H. Peterson, Tulsa, Oklahoma  
Rev. Dane Joseph Radecki, O. Praem., Green Bay, Wisconsin  
Blaine B. Rader, Battle Creek, Michigan  
Vera Roberts, Frobisher Bay, Northwest Territories, Canada  
Danny Ray Setliff, Danville, Virginia  
Charlene P. Smydra, Notre Dame, Indiana  
Sister M. Raphael Stewart, Yoakum, Texas  
Sister Danielle Sullivan, S.P., Quincy, Massachusetts  
Ellen L. Syburg, Evanston, Illinois  
Stuart James Thomas, Elkhart, Indiana  
Sister Beatrice Tom, Honolulu, Hawaii  
Sister Anne Patricia Toner, S.S.J., Winston-Salem, North Carolina  
Roy Carleton Tufts, Jr., South Bend, Indiana  
Brother Richard Charles Villa, S.M., Fort Worth, Texas  
Sister Patricia Anne Weldon, O.S.F., Clinton, Iowa  
Sister Helen Jane Winterson, R.S.M., Omaha, Nebraska

## The Law School

THE DEGREE OF JURIS DOCTOR ON:  
James Carl Polk, Los Angeles, California

## The College of Arts And Letters

THE DEGREE OF BACHELOR OF  
ARTS ON:

Thomas P. Bland, South Bend, Indiana  
Thomas Alexander Byszewski, South Bend,  
Indiana  
Brian Joseph Corrigan, Westlake, Ohio  
Rocco Joseph deGrasse, Park Ridge, Illinois  
Debbie Ann Donnelly, Red Bank, New Jersey  
Christopher John Groll, Freehold, New Jersey  
Robert Allen Hanes, Charlotte, North Carolina  
Richard William Lamping, Pittsburgh,  
Pennsylvania  
Paul Barry Mullaney, Highland, Indiana  
Ronald Newrones, Jr., Cleveland, Ohio  
Thomas Gerard Reitz, Wantagh, New York  
Brian Joseph Reynolds, Chicago, Illinois  
Mark E. Rust, Greensburg, Indiana  
James Theodore Szumski, South Bend, Indiana  
John David Thurston, Fairfield, Connecticut  
Arthur Stephen Tobin, Quincy, Massachusetts  
Andrew James Zwerneman, South Bend, Indiana

## The College of Science

THE DEGREE OF BACHELOR OF  
SCIENCE ON:

Joel Anthony Annable, South Bend, Indiana  
Timothy Michael Shannon, Youngstown, Ohio  
Leo Brian Skrypkun, Evergreen Park, Illinois  
Michael Joseph Tuohy, Bloomington, Minnesota  
M. Robin Yaeckel, Webster, New York

## The College of Engineering

THE DEGREE OF BACHELOR  
OF ARCHITECTURE ON:

Mark Joseph Kitchen, South Charleston, Ohio  
Joseph Charles LaVigne, Rochester, New York  
Donald Laurence Leone, Jr., Riverside, Illinois  
Michael Anthony MacDonald, Medfield,  
Massachusetts  
S. Allan Morris, Grand Prairie, Texas  
Edward Guy Ouellette, Lexington, Kentucky  
Brendan Bartholomew Taylor, Cumberland,  
Maryland

THE DEGREE OF BACHELOR OF SCIENCE  
IN CIVIL ENGINEERING ON:

William Gerard Cunniff, Quincy, Massachusetts

# The College of Business Administration

THE DEGREE OF BACHELOR OF  
BUSINESS ADMINISTRATION ON:

James Henry Castellini, Cincinnati, Ohio

Michael James Courey, Sioux City, Iowa

Brian John Delaney, White Bear Lake,  
Minnesota

Kevin Scott Humphreys, Green Bay, Wisconsin

John Patrick Komora, South Bend, Indiana

Richard A. Latta, *With High Honors*, Wauwa-  
tosa, Wisconsin

Karen Rene Noakes, Marlow Heights, Maryland

Gregory Simon Ramah, St. Petersburg, Florida

Jeffrey Brian Stieglitz, *With Honors*, South Bend,  
Indiana

## Academic Costume Code

### The Academic Costume Code

The history of academic dress reaches far back into the early days of the oldest universities. Academic dress finds its source chiefly in ecclesiastical wear, although mediaeval scholars tended to adopt a collegiate costume. A statute of 1321 required that all "Doctors, Licentiates and Bachelors" of the University of Coimbra (Portugal) wear gowns. Beginning with the second half of the 14th century, civilian collegiate costume was specified in various regulations of the universities. European institutions continue to show great diversity in their specifications of academic wear.

In American colleges and universities, the academic costume is prescribed by the American Council of Education, and its present form was adopted in 1932. The first suggestion for a uniform code was made in May, 1895, following an educational conference at Columbia University. In 1902, the Intercollegiate Bureau of Academic Costumes was created. It codified the 1895 rules and its legal firm serves as a clearinghouse and "repository" for official university and college colors, costumes and insignia.

The present academic dress consists of gown, hood and cap with the pattern and trimmings listed below. Exceptions have been granted to specific universities upon request.

**GOWNS:** Black cotton with long pointed sleeves for the Bachelor's Degree, long closed sleeves (with a slit for the arms) for the Master's Degree, and bell-shaped open sleeves for the Doctor's Degree. The Bachelor's and Master's gowns do not have trimmings. The Doctor's gown is faced down the front with black velvet and there are three bars of velvet across the sleeves.

**HOODS:** Black in all cases. For the Master's it is three and one-half feet long and closed at the end. The Doctor's hood is four feet long with panels at the sides. All hoods are lined with the official color or colors of the college or university which conferred the highest degree. The edging of the hood is velvet and three inches and five inches in width for the Master's and Doctor's degrees, respectively, while its color is distinctive of the subject field.

**CAPS:** Black cotton and stiffened into the so-called mortarboard style. Each cap has a long tassel fastened to the middle point of the top of the cap. The tassel color denotes the subject field. The Doctor's cap may have a tassel of gold thread. University administrators may also have a tassel of gold thread.

### Subject Field Colors Used on Hoods and Caps

Arts and Letters .....	White
Business Administration and Accountancy .....	Drab
Economics .....	Copper
Education .....	Light Blue
Engineering .....	Orange
Fine Arts, including Architecture .....	Brown
Law .....	Purple
Library Science .....	Lemon Yellow
Music .....	Pink
Philosophy .....	Dark Blue
Physical Education .....	Sage Green
Science .....	Golden Yellow
Theology .....	Scarlet
Humanities .....	Crimson

*Old Gold and Royal Blue in Hood Denotes  
a Notre Dame Degree*

