Accreditation and Affirmative Action Statement

Notre Dame College is accredited by The Higher Learning Commission of the North Central Association of Colleges and Schools (www.ncahigherlearningcommission.org) as a degree-granting institution. Other college accreditation, program approvals and affiliations include:

- The American Association of Colleges for Teacher Education
- Registration for State Teachers’ Licenses by The State of Ohio Department of Education
- Association of Catholic Colleges & Universities (ACCU)
- Association of Independent Colleges and Universities of Ohio (AICUO)
- College Entrance Examination Board (The College Board)
- College and University Personnel Association (CUPA)
- Council of Independent Colleges (CIC)
- Council of Independent Colleges Tuition Exchange Programs
- Global Issues Resource Center
- National Association of Independent Colleges and Universities (NAICU)
- National Council for Accreditation of Teacher Education (NCATE)
- Northeast Ohio Council on Higher Education (NOCHE)
- Ohio College Association (OCA)
- Ohio Council of Teacher Education Organizations (OCTEO)
- Ohio Foundation of Independent Colleges (OFIC)
- Ohio Minority Recruitment Consortium
- Pax Christi

Notre Dame College upholds the policy that there shall be no discrimination against any student, faculty or staff because of race, color, religion, national origin, age or disability. The fees, programs, and requirements contained in this catalog are effective with the 2009 Fall Semester. They are necessarily subject to change without notice at the discretion of Notre Dame College. It is the student’s responsibility to know and follow current requirements and procedures.
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## SPRING SEMESTER 2010

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<tr>
<td>January 15</td>
<td>Last Day Spring 2010 Registration</td>
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## WEEKEND COLLEGE (WECO) CALENDAR 2009-2010

### TERM I
- August 14 – Preassignments
- August 28-29
- September 11-12
- September 18-19
- October 2-3
- October 9-10
- October 16-17

### TERM II
- October 16 – Preassignments
- October 30-31
- November 6-7
- November 13-14
- December 4-5
- December 11-12
- December 18-19

### TERM III
- January 2, 2010 – Preassignments
- January 15-16
- January 22-23
- January 29-30
- February 12-13
- February 19-20
- February 26-27

### TERM IV
- February 22 – Preassignments
- March 12-13
- March 19-20
- March 26-27
- April 9-10
- April 16-17
- April 23-24
See our Home Page at www.NotreDameCollege.edu

Send email to: admissions@ndc.edu

Our mailing address is:
Notre Dame College
4545 College Road
Cleveland, Ohio 44121-4293

Phone:
216.381.1680

Toll Free: 877.NDC.OHIO (877.632.6446) ext. 5355

Fax: 216.381.3802

Admissions information, campus tours, transfer students and continuing education:
Office of Admissions, First Floor, Main Administration Building
216.373.5355; toll free: 877.632.6446 ext. 5355 admissions@ndc.edu

Office of Adult Admissions, 2120 South Green Road
216.373.5173; toll free: 877.632.6466 ext. 5173 adultadmissions@ndc.edu

Registration, class schedules and acceptance of credits:
Office of Student Records, First Floor, Main Administration Building
216.373.5287 jwindham@ndc.edu

Financial aid, scholarship and loan inquiries:
Office of Financial Aid, First Floor, Main Administration Building
216.373.5331 finaid@ndc.edu

Housing inquiries:
Office of Residence Life, Harks Hall Lobby
216.373.5274 rwiafe@ndc.edu

Athletics inquiries:
Office of Intercollegiate Athletics, Keller Center
216.373.5138 shlavacek@ndc.edu

Academic advising:
Advising Center, First Floor, Main Administration Building
216.373.5283 mlcurrivan@ndc.edu

Career development, cooperative education, employment assistance:
Career Services Center, Connelly Center
216.373.5290 klane@ndc.edu
Mission statement
Notre Dame College, a Catholic institution in the tradition of the Sisters of Notre Dame, educates a diverse population in the liberal arts for personal, professional and global responsibility.

Statements of purpose
Notre Dame College engages students, staff, and the wider community in the educational experience. Those who choose a Notre Dame education are encouraged to develop these values and skills:

• Thinking logically, analytically, and creatively
• Communicating effectively in speech and in writing
• Demonstrating mastery of an academic discipline
• Choosing wisely for health and well-being
• Appreciating the fine arts
• Integrating Judaeo-Christian values into their lives
• Pursuing their personal spiritual development
• Sharing talents and gifts in the spirit of friendship and compassion
• Engaging in the lifelong search for truth, beauty, and justice.

Catholic identity statement
Given the saving death and resurrection of Jesus, Notre Dame College sees itself as having a mission within the Church to extend Christ’s loving, saving activity in the world. The Gospel serves as guide and goal.

• We give evidence of Christian inspiration and commitment as individuals and as a college community by daily celebration of liturgy, active participation in Christian and ecumenical prayer, and through the renewal and refurbishing of our worship space, Christ the King Chapel.
• In both formal and informal settings, faculty and students conduct their academic work and reflection in light of the Catholic Faith “with due regard for academic freedom and the conscience of every individual.” All undergraduates are required to take a scripture class, a social justice class, and an ethics class in order to graduate.
• Students and faculty are committed to the ideals, principles, and teachings of the Catholic Church. Students, staff, and faculty are expected to develop and live a personal moral and ethical code that reflects the values of the Catholic tradition.
• The mission of Notre Dame College calls faculty, staff, and students to service of others through personal, professional, and global responsibility. Students are involved in annual outreach including: Habitat for Humanity, Stretch Your Heart, and summer service projects. Both faculty and students make individual commitments to some local or national service project.

As a Catholic College, Notre Dame College was founded upon and continues to teach in light of our rich Catholic tradition and Catholic principles.

• Relying on our expansive intellectual heritage. Catholic intellectual life relies on a breath-taking body of works and treatises stretching “from Justin to Augustine to Lonergan, from Origen to Anselm to Teilhard, from Aquinas to Newman to Küng.”
• Affirming the sacramental principle that the natural world as well as human culture can serve to mediate God’s grace. This principle, as well as those that undergird our responsibility to educate for justice, reminds us of our call to participate in the transformation of the world in light of the human dignity of all persons.
• Prizing pluralism. The Catholic faith consistently confirms its universality and catholicity as it embraces all people: young or old, believer or non-believer, from very nationality or social class with special gifts of specific challenges.

Notre Dame College understands the unique role a Catholic College plays in the 21st century American culture. Committed to our Catholic faith tradition of belief in God’s creating, saving, and sustaining love, we strive to daily live out the distinctive characteristics of a Catholic University identified by John Paul II.¹

² ECE, II Art 2 4-5.
Notre Dame College is located in South Euclid, Ohio, a suburb less than 30 minutes east of downtown Cleveland. Cleveland, a center of commerce and industry, is home to many leading national and multinational corporations. Local businesses, schools, hospitals and civic organizations provide opportunities for cooperative education experiences for Notre Dame students. These experiences enhance the student employment opportunities following graduation.

Cleveland, located on Lake Erie, offers a variety of cultural and recreational activities, from professional and amateur theater productions to professional sports. Notre Dame College is 15 minutes from University Circle, a center of cultural, educational, medical, religious and social service institutions. The Cleveland Museum of Art, the Museum of Natural History, the Cleveland Institute of Art, the Cleveland Institute of Music, the Cleveland Botanical Gardens and Severance Hall, home of the world-famous Cleveland Orchestra, are all located in the Circle. The Cleveland Play House, the oldest repertory company in the nation, operates three theaters in a major complex only 20 minutes from Notre Dame College. Downtown is home to Playhouse Square, a cluster of four restored theaters with a combined capacity larger than Lincoln Center. Playhouse Square has been meticulously refurbished to house Opera Cleveland, the Great Lakes Theater Festival and top Broadway road companies. Cleveland has the beauty of the North Coast and the waters of Lake Erie for water sports. The Metro Parks system is Cleveland’s Emerald Necklace, providing more than 100 miles of park drive, picnic areas, ponds, and hiking and biking trails. The College is located within walking distance of the Euclid Creek Reservation. In the winter, three area ski resorts located within a short drive of the city offer downhill and cross-country skiing. Cleveland also hosts a variety of professional sports teams for the enthusiastic spectator. Enjoy Browns football, Indians baseball and Cavs basketball.

THE ADMINISTRATION BUILDING
The College sits on a wooded 53-acre campus. The Tudor Gothic Administration Building houses most of the classrooms and offices, a Science Research Center, the Dwyer Learning Center, computer and multi-media labs, the Performing Arts Center, and the Little Theater. Constructed in 1928, the Administration Building is listed on the National Register of Historic Places by the U.S. Department of the Interior.

THE DWYER LEARNING CENTER
The Dwyer Learning Center consists of an electronic classroom, a student computer lab, a writing lab, and a tutoring room. This area provides students with access to multimedia computers, printers, scanning devices, the latest productivity software, course-related software, the Internet, and email. All computers in the Learning Center are connected to the campus-wide network. Tutors and lab assistants are available to assist students in using these tools in the learning process.

The writing lab and tutoring room are available for students to work one-on-one with tutors in specific subject areas. Peer tutors, many of whom are education majors, are recommended by faculty. Additional networked computers are located in this area.

CLARA FRITZSCHE LIBRARY
The Clara Fritzshe Library, dedicated in 1971, houses a collection of more than 95,000 volumes. Located next to the Keller Center and adjacent to the Administration Building, the two-story structure contains a general collection supporting all areas of the curriculum with a special emphasis on theology, education, literature, art and nursing. In addition, the Library maintains a comprehensive juvenile collection, and a Curriculum Library which provides a wealth of resource materials for prospective teachers.

In an effort to provide timely information for all disciplines, the Clara Fritzshe Library is a member of OhioLINK, a network of 89 academic libraries that provides access to over 48 million books and audiovisual materials and 140 databases containing thousands of journal titles and full text articles. In addition to these resources, the Library receives more than 250 periodicals in print form. Current issues are housed on the first floor and back issues are located on the ground floor. A microform reader/printer is available for viewing and duplicating periodicals kept on microfiche and
microfilm. In addition to periodical holdings, business students have access to an extensive collection of annual reports. Computers on both floors allow access to our electronic catalog, the Internet and numerous online services such as EBSCO, ERIC, MEDLINE, PsychINFO and Education Full Text.

The Library provides a variety of facilities conveniently located on the first floor. The Computer Room is a popular place for students to congregate. It contains six additional computer work-stations that may be used for research, searching the Internet, email and word processing. The Seminar Room may be scheduled for meetings, quiet study, or video/DVD viewing. The Library also features an award-winning art gallery that may be booked for showings by local artists. The Falcon Café, conveniently located at the east entrance of the Library, offers an array of hot and cold drinks, breakfast items, salads, sandwiches, soups, snacks and desserts. The Technology Classroom, located on the Library’s second floor, is a state-of-the-art 40-seat classroom, equipped with two Smart Boards and laptops for each student. Smart technology enables instructors to use a more interactive approach to teaching and to integrate graphics, PowerPoint slides, DVDs and videos seamlessly into their presentations. The Technology Classroom is already a popular place for classes, workshops, and meetings by faculty and staff trained in the use of the new technology available. Six additional classrooms are located on the second floor. One of these classrooms houses 20 computer workstations and functions as an additional computer lab at times when classes are not scheduled there.

The Clara Fritzsche Library also houses two special collections. The Tolerance Resource Center, located on the second floor of the library, houses a collection of books, videos, journals and posters relating to the Holocaust, diversity and anti-bias issues. The Eastern Church Resource Center, located on the first floor, houses a unique collection of books, videos, and audio tapes relating to the Eastern Church and ecumenism. These rooms may also be reserved for meetings or quiet study.

The Library offers a spacious environment for research and study and is handicap accessible. Lounge areas are located on the first and second floors. Carrels are scattered throughout the library and provide additional work areas for students.

The Clara Fritzsche Library is committed to being a “user-oriented” facility. A helpful and informed staff is available to provide assistance to all patrons. The Library offers bibliographic and information technology instruction programs throughout the year. These include a general orientation, subject specific instruction and individual instruction upon request. Interlibrary loan is provided if the items patrons are seeking are not in the Library’s collection. Through OhioLINK, students may request items themselves using their college I.D. barcode number. Materials not available through OhioLINK may be interlibrary loaned from Cleveland Public Library and other libraries throughout the country and will be provided in an efficient and timely manner. Library materials are loaned for a three-week period upon presentation of a current Notre Dame I.D. card. Library patrons may also use their I.D. to receive borrowing privileges at over eighty academic libraries throughout Ohio, including John Carroll University, Ursuline College, and St. Mary Seminary.

JOSEPH H. KELLER CENTER

Built in 1987, the Joseph H. Keller Center is an indoor recreational facility available for student, staff, faculty and community use. A renovation project completed in 2003 updated the weight room with Cybex machines, free weights and cardiovascular equipment for users to monitor their fitness levels or undergo intense workouts. Located within the facility is Mellen Pool, a 25-yard, six-lane pool used for competitive and open swimming. Murphy Gymnasium, also located within the Keller Center, houses a regulation sized basketball court.

While the Keller Center supports the educational mission of the College to educate and form the complete person, it is also used for intercollegiate athletic competition.
UNDERGRADUATE ADMISSION TO NOTRE DAME COLLEGE
To fulfill its mission, Notre Dame College encourages students of diverse religious, racial, educational and socioeconomic backgrounds to apply. Undergraduate admission decisions are based on a broad range of criteria. A prospective student may apply for admission up to a year prior to the semester, summer session or Weekend College term for which admission is desired.

CAMPUS VISIT
Notre Dame College welcomes and strongly encourages every prospective student to take the opportunity to visit its campus. A campus visit can be arranged by contacting the Office of Admissions at 216.381.1680 ext. 5355 or toll-free 877.NDC.OHIO (877.632.6446) ext. 5355.

ADMISSION REQUIREMENTS
Notre Dame College admits students who demonstrate potential for academic success. The credentials of each applicant are individually evaluated with consideration given to a combination of previous academic records, standardized test scores, and evidence of potential to succeed in college. The College has a very fair and generous policy on the transfer of academic credit earned at regionally accredited colleges or universities. Course work completed more than five years ago at a regionally accredited college or university is evaluated on a course-by-course basis. Notre Dame College reserves the right to deny admission to any applicant who does not meet its admission standards.

Recognizing that the needs of a diverse student body are equally diverse, Notre Dame College has established alternative admission requirements for traditional, traditional transfer, adult, Weekend College, and international degree-seeking and certificate-seeking students.

TRADITIONAL STUDENTS
Traditional students are those students who have graduated from high school within four years of their first term of enrollment. A student planning to attend Notre Dame College should take the strongest possible college preparatory program available. The following distribution of courses is recommended.

**College Preparatory English** 4 units

**Mathematics** 3 units to include Algebra I, Geometry and Algebra II

**Science** 3 units with laboratory experience

**Social Studies** 3 units

**Foreign Language** 2 units of the same language

**Fine Arts** 1 unit

Notre Dame College requires the following credentials from each traditional student seeking admission:

1. Application for Undergraduate Admission accompanied by the non-refundable $30 application fee,*
2. Official high school transcript stating date of graduation, and
3. Official ACT or SAT I score report.

* You may also apply online free of charge.

Academic transcripts must be submitted directly to the Office of Admissions by the issuing high school in order to be considered official.

Upon receipt of all necessary credentials, one of the following admission decisions will be made.

FULL ADMISSION
Ordinarily, a student will be granted Full Admission when the following conditions have been met.

- 2.5 cumulative grade point average on a 4.0 scale, and
- Minimum ACT score of 19/ SAT score of 900, and
- Evidence of the potential for academic success as profiled on the academic transcripts and in a personal interview.
PROVISIONAL ADMISSION
A student will be granted Provisional Admission when the cumulative grade point average or standardized entrance examination performance falls below those standards necessary for Full Admission. A student admitted on a provisional basis will be limited to registering for no more than thirteen (13) credit hours during the first term of enrollment and will be required to use the services of the Dwyer Learning Center regularly. The student will meet with the Director of the Learning Center to develop an action plan in order to afford the greatest possibility for academic success. A student admitted provisionally is expected to achieve a 2.0 grade point average upon completion of the first term of enrollment.

ADULT STUDENTS
Adult students are those students 23 years of age and older who have graduated from high school five or more years prior to their first term of enrollment, or who have earned a General Education Diploma (GED). Notre Dame College requires the following credentials from each adult student seeking admission.

1. Application for Undergraduate Admission accompanied by the non-refundable $30 application fee
2. Official high school transcript stating date of graduation, or official GED certificate
3. Official academic transcripts from each college or university previously attended and a
4. Personal interview with an Admissions Counselor.

Academic transcripts must be submitted directly to the Office of Adult Admissions by the issuing high school or post-secondary institution in order to be considered official.

Upon receipt of all necessary credentials, one of the following admission decisions will be made.

FULL ADMISSION
Ordinarily, a transfer student will be granted Full Admission when the following conditions have been met.

• 2.5 cumulative grade point average on a 4.0 scale (most recent academic work) and
• Evidence of the potential for academic success as profiled on the academic transcript and in the personal interview.
PROVISIONAL ADMISSION
A student will be granted Provisional Admission when his/her cumulative grade point average falls below those standards necessary for Full Admission. A student admitted on a provisional basis may be limited to registering for no more than thirteen (13) credit hours during the first term of enrollment. A student admitted provisionally will be expected to achieve a 2.0 grade point average upon completion of the first term of enrollment.

WEEKEND COLLEGE (WECO) STUDENTS
Weekend College students are those who have graduated from high school two or more years prior to their first term of enrollment or who have earned a General Education Diploma (GED), who have worked full-time for at least two years, and who wish to complete course work primarily through Weekend College. Notre Dame College requires the following credentials from each WECO student seeking admission.

1. Application for Undergraduate Admission accompanied by the non-refundable $30 application fee
2. Official high school transcript stating date of graduation or official GED certificate, and
3. Personal interview with an Admissions Counselor.

WECO transfer students will also be required to submit official academic transcripts from each college or university previously attended. Academic transcripts must be submitted directly to the Office of Adult Admissions by the issuing high school or post secondary institution in order to be considered official.

Upon receipt of all necessary credentials, one of the following admission decisions will be made.

FULL ADMISSION
Ordinarily, a student will be granted Full Admission when the following conditions have been met.

- 2.5 cumulative grade point average on a 4.0 scale (most recent academic work)
- Evidence of scholarship and the potential for academic success as profiled on the academic transcript and in the personal interview.

INTERNATIONAL STUDENTS
International students are those who legally reside in a country other than the United States. Notre Dame College requires the following credentials from each international student seeking admission:

1. Application for Undergraduate Admission for international students accompanied by the non-refundable $30 application fee,
2. Official academic transcripts of all secondary and post-secondary education. (If the academic transcripts are in a language other than English, the original transcripts must be submitted along with notarized/certified English translations),
3. Competency in English – (see below – applicable only to non-native English speakers who graduated or will graduate from a secondary school outside the USA),
4. Declaration and Certification of Financial Support form,
5. International Student Financial Aid Form,
6. Verification of Country of Birth and Citizenship form, and
7. Admissions Essay (recommended, but not required).

For International Transfer Students ONLY:
• Verification of F-1 Status form
• College credit may be offered for completion of coursework at a “C” level or better, at a regionally accredited college or university.

For International Athletes ONLY:
ATHLETES must achieve two of the three documented standards:
• Graduate in top half of class (confirmation from head master/guidance counselor)
• Earned a minimum of 2.00 GPA
• Obtain official results of the ACT/SAT test.
According to Immigration and Naturalization Service regulations, a completed Declaration and Certification of Financial Support is necessary to prove that the student has financial resources available for the cost of tuition, fees, room and board, supplies, personal expenses and transportation while enrolled at Notre Dame College for the first academic year and to give a reasonable guarantee that financial resources will be available at approximately the same rate for the remaining academic years.

Upon receipt of all necessary credentials, one of the following admission decisions will be made.

**FULL ADMISSION**

A student will be granted Full Admission when the following conditions have been met.

- Competence in the English language as evidenced by one of the following:
  - TOEFL (Test of English as a Second Language) – a minimum score of 550 PB (paper-based)/213 CB (computer-based) (www.toefl.org)
  - IELTS (International English Language Testing System) – minimum score of 6.0 (www.ceii.org)
  - CAE (Cambridge Certificate of Advanced English) minimum score of C (pass)
  - ELS Language Centers - level 112 Proficiency Examination (www.els.com)
  - General Certificate of Education – minimum score of C (pass) on either O (ordinary) or A (advanced) level. Scores must be no more than 2 years old.
  - 2.5 cumulative grade point average on a 4.0 scale (most recent academic work)

Form I-20, Certificate of Eligibility for Nonimmigrant F-1 Student Status, is issued by the Office of Admissions upon receipt of a signed Confirmation of Attendance form. Bureau of Citizenship and Immigration Services (BCIS, formerly the Immigration and Naturalization Service [INS]) regulations require foreign students on a student visa to carry a full course of study during each term of enrollment at Notre Dame College in order to maintain F-1 student status while in the United States.

**READMISSION**

Students who have been absent from the College for one calendar year or longer must reapply for admission. For the purpose of readmission, one calendar year is defined as any consecutive combination of a Fall Semester, Spring Semester and Summer Session, or any consecutive combination of four Weekend College terms. The Director of Admissions determines the official length of academic absence. Students seeking readmission are expected to follow the same admission process as those prospective students who will be attending Notre Dame College for the first time.

Students readmitted to the College must follow the Catalog requirements and academic policies in effect at the time of readmission regardless of the number of credits earned under a previous Catalog.
Student Financial Aid

Financial assistance means freedom to choose a college based on academic programs rather than on cost. Notre Dame College believes in the philosophy that all qualified students should have the opportunity to attend regardless of personal financial situation. A student and his/her family, of course, are expected to contribute to the cost of education to the extent that they are able.

Notre Dame College’s student financial assistance program is designed to help bridge the gap between direct cost and a student’s ability to pay. We offer both need-based and merit-based aid to our students. All financial assistance is awarded according to the eligibility requirements set forth for each type of aid. Eligibility requirements vary considerably from fund to fund and are established by the funding agency or source.

All financial assistance can be divided into two broad groups: grants or scholarships and self-help. Grants or scholarships are forms of financial assistance that do not have to be repaid and that are generally based on need, academic achievement or other special attribute. Self-help aid must be either repaid with interest or earned through on-campus employment. Within the context of these two broad groups, Notre Dame College awards student financial assistance from three general sources: federal programs, state programs and private aid.

Notre Dame College requires the Free Application for Federal Student Aid (FAFSA). This need analysis report must be completed to determine a student’s need. To qualify for federal financial aid, a student must be a United States citizen, a permanent resident, or other resident alien. Additionally, a student must be enrolled at least halftime in a degree seeking program and maintain satisfactory academic progress.

Sources of Financial Aid

Federal Financial Assistance Programs
- Federal Pell Grant
- Federal Subsidized Stafford Student Loan
- Federal Unsubsidized Stafford Student Loan
- Federal Parent Loan for Undergraduate Students (PLUS)
- Federal Supplemental Educational Opportunity Grant (FSEOG)
- Federal Perkins Loan
- Federal Work Study (FWS)
- Federal Academic Competitiveness Grant
- Federal Smart Grant
- Federal Teach Grant

State Financial Assistance Programs
- Ohio Instructional Grant (OIG)
- Ohio Choice Grant
- Ohio Academic Scholarship
- Ohio War Orphans Scholarship

Private Financial Assistance Programs
- Valedictorian / Salutatorian Scholarship
- Presidential Honors Scholarship
- Family Plan Scholarship
- The John Huntington Fund for Education
- The Cleveland Foundation
- Ohio Foundation of Independent Colleges
- Laub Foundation
- Tuesday Study Club
- Cleveland Diocese
- Hille-Sposet
- Raymond Hills Charitable Remainder Unitrust
- Sisters of Notre Dame
- Buenrostro Scholarship
- Black Professional Association

Endowed Awards
- Joseph M. and Aldemira Alfonso Award
- Notre Dame College Alumni Scholarship
- Arthur S. Armstrong Scholarship Fund
- Christopher Foundation Scholarship Fund
- Sister Mary Aquinas & Sister Mary Clotilda Award
- Daniel S. Connelly Scholarship
- Edward J. and Stella Gunn Corbett Award
- Sister Mary Cordilia Award
- Helen Adeline Corrigan and Marie Corrigan Scholarship Fund
- Sister Jeanmarie DeChant Award
- Helen Schaffer DeGulis Scholarship Fund
- Anne L. Deming International Student Fund
Eleanor Durica Filak Endowment
Sister Mary LeRoy Finn Scholarship
Flynn Family Scholarship Fund
GAR Foundation Scholarship
Carl and Dorothy Harig English and Communication Award
Sister Mary Patricia Hlivak Award
Rev. Henry Hofer Award
Elizabeth Cantillon Hruby Scholarship
Jean G. and Joseph H. Keller Scholarship
Fred A. Lennon Scholarship
Joseph and Eleanore Loehr Scholarship
Alice J. and Patricia A. McCann Endowment
The Helen and Michael Earl McCloskey Award
McHugh Award
Catherine and F. Jerome Mckeever Scholarship
Ruth A. and Loretta E. Mersy Scholarship
Joseph and Caroline Mersy Scholarship
Dorothy and Eugene J. Murray Scholarship
Frances A. Noetzel Endowed Scholarship Fund
Sisters of Notre Dame Freshman Award
Grace K. O'Donnell Scholarship
Corinne O'Neill Scholarship
H.M. O'Neill Scholarship
O'Neill Science Scholarship
Pauline Palub Endowment
Bishop Anthony M. Pilla Scholarship Fund
Thomas Quinlan Award
Quinlivan/Burke Award
Dr. Robert & Rosemary Racek Scholarship Fund
Regis and Leona Reinhard Award
Sister Mary Marthe Reinhard Scholarship
Stanley I. Roediger Award
Gertrude Schaefer Award
Marie M. Schoonmaker Scholarship
Ruth M. Seegert Award
Josephine Smutko Seymour Endowed Scholarship
Frank J. & Helena M. Smith Award
Mary Strassmeyer Scholarship
Marianne Artino Taylor Scholarship
John and Alma Tercek Award
Monsignor Angelo J. Trivisonno Award
Elizabeth Unkefer Award and Scholarship
John C. and Florence M. Wasmer Foundation Award
Timothy & Marie Welch Award
Jeanne Ann Woessner Award
Stella Scarano Zannoni Endowed Scholarship
Edward Brandon Scholarship Fund
James C. Sennett Endowment Fund
Charles Schell Foundation Scholarship
F.J. Cole Scholarship
F.J. O'Neill Scholarship

Sister Mary Margaret Harig Endowed Internship in Campus Ministry
Eleanor Malburg
Hoover-Takacs
Naomi Dempsey
Bernice Krumhansl
Sister Dolories Abood Scholarship

EMPLOYER REIMBURSEMENT
Many students who are employed full-time receive tuition reimbursement from their employer. The benefits vary from company to company. It is the student’s responsibility to inquire about his/her company’s benefit program.

CONFIRMATION AND ROOM DEPOSITS
Upon acceptance by Notre Dame College, incoming fulltime students are required to make a confirmation deposit of $125. The deposit is credited to the student’s first semester charges and is not refundable after May 1.

If housing is desired, an additional $200 room/key/damage deposit is required, more information can be found in the housing agreement.

PAYMENT
It is the policy of Notre Dame College that tuition and fees for a given term are to be paid or acceptable arrangements made by August 1 for Fall Semester and January 3 for Spring Semester. Students who register after that deadline are expected to have acceptable payment arrangements in place at the time of registration. Pending financial aid is not an acceptable payment arrangement. Payments for WECO and online terms are due prior to the first day of classes.

REFUNDS

Tuition:
If a student withdraws from Notre Dame College during the semester, no refunds except those indicated here will be made, and any unpaid balance covering the period of enrollment will become due. For students who withdraw within the first four weeks of a given semester, refunds will be made after written notification of withdrawal is filed with, and approved by, the Office of Student Records. The amount of refund will be figured from the date appearing on the official Change of Schedule form:
• before the end of the first week of classes, 100%;
• before the end of two weeks, 80%;
• before the end of three weeks, 60%;
• before the end of four weeks, 40%;
• and after the fourth week, NO REFUND.
• For courses that meet once a week, one class equals one week.
Refunds on non-credit courses will be made on the percentage basis listed above. Refunds will be made approximately one month after the date of withdrawal.

A student who withdraws from a course must give written notification to the Office of Student Records. **Non-attendance and/or non-payment DO NOT constitute official withdrawal from a course.** If a student fails to withdraw officially, he/she will be responsible for all tuition and fee charges.

**Room and Board:**
If it is necessary for resident students to withdraw from classes and from the residence hall, a refund of the charges for room and board for the semester will be made on the percentage basis listed above. No refund will be made after the fourth week of class.

**Federal Refund Policy:**
A federal refund policy applies to students meeting all of the following criteria:

1. Students who receive federally supported financial aid or loans
2. Students who are in their first term
3. Students who are completely withdrawing from school during the first 60% of their first term.

**STANDARDS OF SATISFACTORY ACADEMIC PROGRESS* FOR FINANCIAL AID APPLICANTS**

Federal regulations (HEA Sec. 484(a),34 CFR 668.16(e), 668.32(f),668.34) require that Notre Dame College review the academic progress of all students who apply and/or receive federal financial assistance. This regulation applies to each financial aid applicant, whether a previous recipient or not. A student’s entire academic record is included in the measurement. The measurement consists of three areas: Credit Hour, Grade Point Average, and Maximum Time Frame for eligibility.

**A. Credit Hour Requirement**
First year undergraduate students (0-31 hours attempted) must complete successfully a minimum of 60% of the number of credit hours attempted in each award year (or part thereof). An award year includes any terms beginning with Summer through the Spring semester. All other undergraduate students must complete successfully a minimum of 75% of the total number of attempted credits each academic year (or part thereof) at Notre Dame College. Students attending only one semester or WECO term will be evaluated on that term’s work. Students who leave the college for an awarding year (or years) will be evaluated on their performance during the most recent year of attendance at Notre Dame College.

Graduate Students and post-baccalaureate students must complete successfully a minimum of 75% of the total number of hours attempted each academic year (or part thereof) at Notre Dame College.

Successfully completing a course requires a grade of A, A-, B+, B, B-, C+, C, C-, D or P. All other grades including N, W, F, and I are considered unsatisfactory and are unacceptable.

**B. Grade Point Average (GPA Requirement)**
All students who have attempted 62 credit hours must maintain an accumulative grade point average of 2.0. Students will be measured at the end of each term of enrollment. Graduate Students must maintain a 3.00 GPA at all times.

**C. Maximum Time Frame for Eligibility**

**Undergraduate Students**
Undergraduate Students may continue to be considered eligible for assistance as long as they have not attempted (or registered for) more than 160 credit hours and/or have not completed more than 140 undergraduate credit hours. Transfer hours will be counted in the number of attempted/earned hours. Additionally, remedial and/or repeated course work will also be included in the maximum permissible number of hours attempted and earned.

**Graduate Students**
Graduate Students may continue to be considered eligible for assistance as long as they have not attempted (or registered for) more than 60 graduate credit hours and/or have not completed (earned) more than 48 graduate credit hours. Transfer hours will be counted in the number of attempted/earned hours. Additionally, remedial and/or repeated course work will also be included in the maximum permissible number of hours attempted and earned.

* Please note that this policy is referred to on the back of the Financial Aid Award Letter.
Post baccalaureate students may continue to be considered eligible for assistance as long as they have not attempted (or registered for) more than 36 graduate credit hours and/or have not completed (earned) more than 48 graduate credit hours. Transfer hours will be counted in the number of attempted/earned hours. Additionally, remedial and/or repeated course work will also be included in the maximum permissible number of hours attempted and earned.

Please note that this policy is referred to in the Notre Dame College Catalog, and on the back of the Financial Aid Award Letter.

**Transfer Students**
Transfer Students will not be measured against the Credit Hour Requirement or GPA Requirement until the end of the academic year in which they start.

Transfer Students will be measured against maximum time frame for eligibility based on hours transferred. (See appeal process.)

**Monitoring**
Satisfactory academic progress will be measured at the end of each academic year. However, in some instances, an evaluation will be conducted after each semester.

EX: Students with 62 attempted hours will need a 2.00 GPA at the end of each term of enrollment.

Evaluation will be done in a timely manner, however, the next term may be in progress at the time we are able to notify students of their ineligibility. Should the student be concerned that he/she may not have met the requirements, he/she may contact the Office of Student Financial Assistance during normal business hours.

Students will be notified via their student mailbox if they have failed the measurement. Students may appeal the decision.

**APPEALS**
Students may appeal their denial of assistance by completing the Appeal Form. The student and his/her advisor must sign the form. An appeal form will be mailed to students not meeting the requirement or may be obtained from the Office of Student Financial Assistance.

Financial Aid appeals must be based on undue hardship caused by the death of a relative, personal injury, illness, or other special circumstance supported with appropriate documentation.

A plan as to how the student will improve academic performance must be included in the appeal. An academic advisor must sign all appeals.

Appeals must be presented to the Office of Student Financial Assistance within 10 working days after the receipt of the denial letter. The appeal will be reviewed within 10 working days and written notification will be in writing.
Student Affairs

The Division of Student Affairs provides leadership and coordination for the co-curricular programs and services for Notre Dame College students. These programs are designed to enhance the academic environment and promote student learning. The Associate Dean for Student Affairs is responsible for supervising and coordinating the activities of the following units.

CAMPUS ACTIVITIES
Part of the Division of Student Affairs, the Campus Activities Office (CAO) strives to meet the various needs of the campus community. In addition to social programs, the CAO offers cultural events, holiday programs, and service projects in order to enhance the holistic development of the students. The CAO works closely with Undergraduate Student Government (USG) in planning various campus events. The office is responsible for the authorization and coordination of student-sponsored extracurricular programming held on campus.

Campus activities are strongly encouraged and supported at Notre Dame College. Various activities are designed to include and to meet the needs of all types of students: residents and commuters, traditional and adult. The Office of Campus Activities along with the Undergraduate Student Senate sponsors many programs on and off campus including comedians, interactive entertainment, dances, speakers, Little Sibs & Kids Weekend and many more.

The College maintains a schedule of off-campus events that takes advantage of the many wonderful cultural resources of the Greater Cleveland area. These include performances by the Cleveland Orchestra, Cleveland Ballet, Cleveland Playhouse, and the Ohio Chamber Orchestra. With a grant from the Kulas foundation, the Notre Dame College community may purchase tickets at greatly reduced rates.

CAMPUS MINISTRY
Campus Ministry promotes the spiritual growth of the Notre Dame College community. Through the Catholic identity of the institution and the charism of the Sisters of Notre Dame, Campus Ministry seeks to foster personal and spiritual growth through which each person grows in their understanding of themselves, God, and the world.

This is accomplished through service to the community around us, worship and prayerful experiences, meaningful activities, and community building.

The Campus Ministry program facilitates service in the community, retreats, liturgy and more. There are regular Eucharistic celebrations and prayer services on campus. Each year Campus Ministry holds a number of retreats both on and off campus. Campus Ministry frequently organizes opportunities for service in the community, such as building projects, working at hunger shelters, and interacting with young people. Throughout the year Campus Ministry also provides opportunities for students to gather in small groups, holds discussions, and more. There are also many opportunities for leadership, student employment, and internships.

While recognizing the diversity within the Notre Dame College community and the wide spectrum of religious backgrounds therein, Campus Ministry encourages all people to pursue their own spiritual development. Campus Ministry is fundamentally committed to being welcoming and hospitable to all people regardless of their faith tradition, in our events, liturgies, and activities.

CAREER SERVICES CENTER
The Career Services Center can help students choose a career focus, research employers, put together a resume and practice for job interviews. No matter what educational track or program one’s in – Undergraduate, Weekend College (WECO), or Teacher Evening Education Licensure (TEEL®) – the Career Services Center is here to assist. Students are encouraged to begin using the Career Services Center during their first year at NDC to start their career planning.

Free career assessments, a resource center, an online job board, workshops and individual counseling are available to all students and alumni. A schedule of all events and programs is available on the Career Services Center’s website at: www.NotreDameCollege.edu/careers.

COOPERATIVE EDUCATION
Cooperative Education and internships assist students in determining career direction, gaining on-the-job training and experience, observing professionals and providing lessons in human relations, and earning money. Applying classroom learning to actual work experience provides students an opportunity to test their knowledge in specific areas while exploring career opportunities.
This work experience is either major or career-related, can last one semester or longer and can be paid or unpaid. A student may earn a maximum of six credit hours toward graduation with each credit hour requiring 45 hours of work. Tuition is the same as for all other courses. Co-op is required of all Bachelor of Arts candidates; however, all students are encouraged to participate in this program. Specific information about the Co-op/Internship program may be found at the Notre Dame College web address: www.NotreDameCollege.edu/careers and click on “Cooperative Education.” All of the requirements and forms necessary for the class are located at this website. Students must still register for the class just like all other classes in addition to filling out the required forms for the Co-op/Internship class itself.

COUNSELING CENTER
Counseling is a process through which a student can discuss any problems or concerns with a licensed professional counselor. This process may be voluntarily initiated by the student or as a result of referral by a faculty member, family member, friend, or professional in the community who may already be working with the student.

The choice to begin, continue, or terminate counseling is left to the student. Counseling services are free for all full and part-time students. The counseling relationship is protected by law and is strictly confidential. Referrals will be made to students who may require a special area of counseling or psychiatric care.

Counseling services include individual and group counseling, personal growth workshops, and education about mental health topics.

HEALTH SERVICES
Students needing health services may go to:
Dr. Senders and Associates located at:
2054 South Green Road
South Euclid, Ohio 44121
216.291.9210

Emergency Room services are provided for all students by an area hospital. Students who are absent from classes because of illness or accident are expected to contact their professors to make up work missed. A student’s medical record is confidential and, except in an emergency, information from it is released only with the student’s permission.

Each residence hall student is required to complete a medical history form and submit an immunization record before attending classes. Residence hall students are required to have medical insurance. A student’s medical record is confidential and, except in an emergency, information from it is released only with the student’s permission.

Immunizations must be brought up to date; measles – mumps – rubella (MMR) second injections are mandatory for resident students.

RESIDENCE LIFE
The Residence Life program at Notre Dame College is an integral part of the education of a student. The program is committed to facilitating and enhancing the academic, social, and personal growth of students. Residential life affords opportunities for growth and development outside of the classroom. Living on campus provides innumerable opportunities to live with others who are different from yourself, to become a leader, to communicate well, to manage conflicts successfully, to make sound decisions, and to broaden your perspective on the world. Student health records are kept in the Office of Residence Life.

ACADEMIC SUPPORT CENTER
Located in the Clara Fritzsche Library, the Academic Support Center is designed to support students with documented learning disabilities such as attention deficit disorder (ADD), attention deficit hyperactivity disorder (ADHD), and dyslexia. Services offered by the Center are voluntary and comprehensive, created to develop independence and self-advocacy.

In the ASC, Transfer to Action groups help students keep up academic momentum through goal setting. Instructional Advisors help students hone study and organizational skills. The ASC provides adaptive equipment and books on tape. The ASC’s goal is to provided skills, support, services and strategies.

THE DWYER LEARNING CENTER
The Dwyer Learning Center offers a program to assist students in achieving their academic ambitions and goals. The program provides extra academic support in the form of tutorial assistance for course-related problems. The Director and student tutors perform the tutorial services and communicate regularly with the students’ instructors.
The Dwyer Learning Center assists with the coordination of Notre Dame College’s placement testing in English, math and computer skills. The tests are given at scheduled dates during the summer and at the new student orientation each semester. Failure to take these tests at the earliest opportunity can delay a student’s enrollment for specific classes. (See page 5 for more information.)

STUDENT DISABILITY SERVICES
Eligibility for Services: A qualified college student with a disability may request academic support services from the Director of the Dwyer Learning Center. Once the student is admitted to Notre Dame College, to receive academic accommodations:

1. The student is responsible for identifying himself/herself as a person with a documented disability. Therefore, the student is required to make an “intake” appointment with the Director of the Dwyer Learning Center. This should be done within the first two weeks of the semester.
2. The student will meet with the Director of the Dwyer Learning Center, provide the required documentation and discuss possible reasonable academic accommodations.
3. Once the student has provided appropriate documentation to the Director of the Dwyer Learning Center, an accommodation letter will be developed.
4. The student is responsible for picking up the accommodation letter(s) from the Director of the Dwyer Learning Center for each class every semester. A faculty member is not required to provide academic accommodations until he or she has receive the accommodation letter from the student.

Students who are a part of the Academic Support Center may request academic accommodations from the Director of the Academic Support Center.

FYI
The First Year Institute continues the student’s orientation to Notre Dame College during the first semester with a unique, small-group experience. In this seminar students meet regularly with faculty and staff mentors and work toward the common goals of achieving academic success and developing a sense of community.

WHO’S WHO
Each fall Notre Dame College selects from the current graduating class for membership in Who’s Who Among American Universities and Colleges. Who’s Who is a nationally respected honors program that spotlights students who have excelled in the areas of scholarship, leadership, service, and have the potential for future success. Applications are made to the Associate Dean for Student Affairs who chairs the selection committee.

CLUBS AND ORGANIZATIONS
Accounting Club
Art Club
BACCHUS
Biology Club
Black Scholars
Bowling Club
Business Club
Campus Activities Board
Chemistry Club
Education Council
Environmental Club
Falcon F.A.N.A.T.I.C.S.
Masquers (dramatics)
Multicultural Club
Notre Dame News
Phi Alpha Theta (history honorary)
Pivot (literary magazine)
Poetry
Pre-law
Psychology Club
SIFE (Students in Free Enterprise)
Student Nurse Association
Undergraduate Student Government
Vocal Ensemble

Information regarding these organizations may be secured from the Director of Campus Activities and members of the Student Government.

UNDERGRADUATE STUDENT GOVERNMENT
Notre Dame College recognizes that students are entitled to participate in the formulation of rules, regulations and policies directly affecting Student Life. Participation shall be provided through the Undergraduate Student Government and through student participation on College committees and councils.
The Undergraduate Student Government shall have primary responsibility for recognizing student organizations, enforcing Student Government rules, regulations and legislative actions, and budgeting and administering College funds allocated to it.

**INTERNATIONAL EDUCATIONAL TRAVEL**
Opportunities are provided for students to travel abroad and earn college credit. Educational travel experiences guided by full-time college faculty are open to all students. Members of the NDC community have traveled to Italy, Greece, France, Germany, the Czech Republic, Slovakia, Austria, Spain, and the British Isles.

**TRADITIONS**
Notre Dame College is a campus rich with traditions. Attendance at college-wide events is an integral part of the learning experience.

**All College Honors/Closing Convocation** – This awards ceremony is held at the end of spring semester.

**Christmas Celebration and Lighting Ceremony** – Near the close of fall semester, entertainment and a worship service are organized for Notre Dame College personnel, students, and their families to celebrate the holiday season.

**Club of the Year** – This award is given to the campus organization that works most successfully to improve the quality of student life.

**Earth Day** – The Notre Dame College community joins forces during spring semester to focus on environmental issues and to beautify the campus landscape.

**Easter Dinner** – During the Easter season, a family style dinner is served by faculty and staff to the students in the Connelly Center Dining Hall.

**Founders’ Day** – A celebration of the spirit of the founders of Notre Dame College, the Sisters of Notre Dame.

**Senior Farewell Event** – As a tribute to all graduating seniors, a reception is held in the spring.

**Thanksgiving Dinner** – During the Thanksgiving season, a family style dinner is served by faculty and staff to the students in the Connelly Center Dining Hall.

**INTERCOLLEGIATE ATHLETICS**
Notre Dame College sponsors the following intercollegiate athletic teams:

**Women**
- Basketball
- Bowling
- Cross Country
- Golf
- Lacrosse
- Soccer
- Softball
- Swimming & Diving
- Track & Field
- Volleyball

**Men**
- Baseball
- Basketball
- Bowling
- Cross Country
- Football
- Golf
- Soccer
- Swimming & Diving
- Tennis
- Track & Field
- Wrestling

Notre Dame is currently affiliated as a National Association of Intercollegiate Athletics (NAIA) institution and is a member of the American Midwest Conference (AMC), which is comprised of colleges and universities in Ohio, New York and Pennsylvania. In the summer of 2009, NDC applied for NCAA Division II membership and had their application approved. The College began the 2009-10 academic year as a Candidacy Year-One institution in the NCAA Division II membership process.

Competitive events, as well as training opportunities, are available to student athletes within the Joseph H. Keller Center and its surrounding athletic fields, in addition to several local facilities. The intercollegiate athletic program at Notre Dame College grows naturally from the mission of the College.

The program supports the student athlete who achieves on the court or field, as well as in the classroom. A focus of each student athlete’s program is solid academic preparation and academic achievement. Because of its size and its commitment to a full collegiate experience, the College affords student athletes of varying abilities the opportunity for participation that might not be available to them at other institutions.

**INTRAMURALS AND RECREATION**
The intramurals and recreation program consists of individual and team activities for students of all skill level. Activities are determined according to interest and facility availability.
LIBERAL ARTS EDUCATION
As a liberal arts college, Notre Dame strongly affirms its belief in the value of the liberal and fine arts as the learning foundation for both academic and professional pursuits. The General Education Requirements serve as a basis for students to share a common tradition of learning while pursuing an academic major. These courses provide the means for understanding the intersection between God and humankind.

The General Education Requirements also lead students to address and develop the specific insights and competencies needed in our contemporary society.

One of the objectives of the General Education Requirements is to provide students with learning experiences in disciplines other than their academic major. However, if a course is used to complete a section of the General Education Requirements and it is also part of the student’s major, it will usually fulfill both requirements. The credit hours, however, may be counted only once toward fulfilling the degree requirement of 128 semester credits for a baccalaureate degree or 64 semester credit hours for an associate degree.

GENERAL EDUCATION REQUIREMENTS (GERs)
The following courses fulfill the 42-43 credit General Education Requirements for a Bachelor of Arts or a Bachelor of Science Degree. A course may be used only once to fulfill a General Education Requirement, although these requirements may overlap with requirements for major or minor areas of study. Equivalent courses from other institutions may fulfill the General Education Requirements pending approval of the Registrar. Selected Topics courses that fulfill the core requirements will be listed in the Schedule of Courses. (See pages 20 and 21.)

GRADUATION REQUIREMENTS
Students are personally responsible for meeting all academic requirements for their chosen major and degree. Questions should be referred to the Office of Academic Affairs or the Registrar.

A candidate for a BACHELOR’S degree must meet the requirements listed below. The student shall

- have earned 128 semester hours of credit. (A semester hour is defined as one weekly, fifty-minute class period for a semester of fifteen weeks. Two or three hours of laboratory work are equivalent to one class/lecture period. The Weekend College Terms are semester equivalents, and the credit unit is a semester credit.)
- have successfully completed courses fulfilling the General Education Requirements and those in the chosen major field of study.
- have earned a minimum overall cumulative GPA of 2.0.
- have earned the minimum cumulative GPA required by their major. See specific programs for the GPA requirement.
- have attended Notre Dame College for at least one year, preferably the senior year, and shall have completed a minimum of thirty-two (32) semester credits of course work at Notre Dame College.
- have at least 45 credits of upper-biennium (300-400) courses.

A candidate for an ASSOCIATE’S degree must meet the requirements listed below. The student shall

- have earned 64 semester hours of credit.
- have successfully completed the Associate Degree General Education Requirements and those in the chosen major field of study.
- have attained a grade point average of at least 2.0 by the end of the first year of study.
- have maintained a minimum 2.0 average in the major field.
- have attended Notre Dame College for at least one semester and have completed a minimum of sixteen (16) semester credits of course work at Notre Dame College.
<table>
<thead>
<tr>
<th>Area</th>
<th>Credits</th>
<th>Courses Satisfying Requirement</th>
<th>Notre Dame College Course Options</th>
<th>Prerequisite or Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Written Composition</td>
<td>3</td>
<td>An English composition and writing course</td>
<td>EN 110 or EN 100/101</td>
<td>Placement at initial enrollment</td>
</tr>
<tr>
<td>Oral Communication</td>
<td>3</td>
<td>A Public Speaking course</td>
<td>CA 100</td>
<td></td>
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<tr>
<td>Information Systems</td>
<td>3</td>
<td>An introductory Computer course</td>
<td>IS 220</td>
<td>IS 120 or Placement</td>
</tr>
</tbody>
</table>
| Fine Arts                   | 3       | • Art or Music History course  
• Art or Music Appreciation course  
• Selected Art Studio courses          | AR 101, AR 209, AR 221, AR 223, AR 280, AR 311, AR 312, AR 313, AR 314, AR 316, AR 377, MU 160, MU 211, MU 213, MU 320, MU 106* | *MU 106 must be taken two times to fulfill requirement |
<p>| Literature                  | 3       | A literature course (not Children's Literature)                                              | EN 255, EN 256, EN 261, EN 262, EN 281 or any literature course numbered EN 331 or above |                                                                                        |
| Scripture-Inclusive Theology| 2 or 3  | A Theology course that includes the study of Scripture                                        | TH 150, TH 321, TH 322, TH 325, TH 371, TH 373, TH 374, TH 381, TH 382, TH 383 | TH 150 is the recommended introductory course. TH 150 is not a prerequisite for other TH courses. |
|                             |         | A Pastoral Theology and Ministry Scripture course                                            | PM 104, PM 105, PM 324, PM 327   |                                                                                        |
|                             | 3       | Social Justice: Issues and Action                                                            | TH 450                            | TH 450 must be taken at Notre Dame.                                                    |
| Philosophy                  | 3       | A Philosophy course                                                                         | Any PH course                     | PH 180 is the recommended introductory course. PH 180 is not a prerequisite for other PH courses. |
|                             | 3       | Current Ethical Problems                                                                    | PH 480                            | PH 480 must be taken at Notre Dame.                                                    |</p>
<table>
<thead>
<tr>
<th>Area</th>
<th>Credits</th>
<th>Courses Satisfying Requirement</th>
<th>Notre Dame College Course Options</th>
<th>Prerequisite or Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cross Cultural - International Studies</td>
<td>3</td>
<td>• A Modern Language course</td>
<td>See the annual schedule of course offerings for currently available cross-cultural courses.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• A cross cultural or international Anthropology, Business, Literature, Social Science or Theology course</td>
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<td></td>
<td></td>
<td>• A course associated with travel abroad</td>
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</tr>
<tr>
<td>Science</td>
<td>4</td>
<td>A Biology, Chemistry, or Physics course with lab</td>
<td>BI 105/106, BI 110/111, BI 112/113, BI 200/201, BI 204/205, BI 230/231, BI 240/241, CH 100/101, CH 106/107, CH 111/113, CH 116/117, CH 220/221, CH 225/226, PS 150/151, PS 180/181, PS 200/201</td>
<td>Recommended courses for non-science majors are BI 105/106, BI 200/201, BI 230/231, CH 220/221, CH 225/226</td>
</tr>
<tr>
<td>Mathematics</td>
<td>3</td>
<td>A Math course appropriate to the major and beyond the developmental level</td>
<td>MA 120, MA 130, MA 131, MA 175, MA 220, MA 221</td>
<td>Placement</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>3</td>
<td>A course in Economics, Geography, History, Political Science, Psychology or Sociology</td>
<td>Any EC, GO, HI, PO, PY or SO course</td>
<td></td>
</tr>
<tr>
<td>Health and Wellness</td>
<td>3</td>
<td>A Health and Wellness course</td>
<td>HP 110 (traditional students)</td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td>HP 112 (adult students)</td>
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<td></td>
<td>NR 200 (BSN students)</td>
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</tbody>
</table>
ASSOCIATE DEGREE PROGRAMS
The following General Education Requirements form the foundation for all associate in arts degree programs.

English Composition 1 course
Literature 1 course
Fine Arts 1 course
Health Education 1 course
Science 1 course
Mathematics or Social Science 1 course
Oral Communication 1 course
Philosophy 1 course
Theology 1 course

MAJOR FIELDS OF STUDY
The academic major deepens the student’s knowledge in a particular field while meeting intellectual and career interests. Therefore, all Notre Dame students must choose a major area of study.

Degree candidates are encouraged to choose a major by the end of the sophomore year. In order to fulfill all requirements in four years, some majors require enrollment in major courses during the freshman year. This situation is particularly true in the natural sciences, mathematics, accounting, and education.

Some programs have both entrance and graduation requirements of a specific grade point average during the time of study. See specific programs for entrance and continuation GPA requirements.

DEGREE COMPLETION TIME FRAMES
Degree requirements must be completed within 10 years of the date from which the student first matriculated at Notre Dame College. Earned credits over 10 years old will only apply to a degree if the grade for that credit is C (2.0) or better and when accepted as applicable by the Vice President for Academic Affairs.

MINOR FIELDS OF STUDY
Notre Dame College provides a wide variety of disciplinary minors. Minors allow students to have a meaningful concentration of courses in areas that may be of value in support of the major. Carefully chosen minors can be an asset in obtaining employment and in facilitating career change.

Requirements for minors generally range from 18-24 credit hours.

DOUBLE MAJOR
Some students may wish to complete two majors while at Notre Dame College. The student completes all the requirements in effect in the catalog for each major. If the two majors are listed under different degrees in this catalog, the student chooses to receive either a Bachelor of Arts (BA) or a Bachelor of Science (BS) degree. Only one degree will be granted to any student at the time of graduation.

The student must be aware that it may not be possible to complete two majors in only four years.

PROGRAMS OF STUDY
Majors, minors, and areas of certification are listed here. See the indicated discipline’s section of the catalog for specific requirements.

DEGREE PROGRAMS
A Bachelor of Arts (BA) degree is available with these majors:
Accounting (Business Administration)
Biology
Chemistry
Communication
Education
English
Graphic Design (Art)
History/Environmental Science
Human Resource Management
   (Business Administration)
Management Information Systems
   (Business Administration)
Management (Business Administration)
Marketing (Business Administration)
Mathematics
Political Science
Psychology
Sport Management (Business Administration)
Studio Art
Theology
Interdisciplinary Majors (Bachelor of Arts degree)
- Graphic Communication (Art/Communication)
- Public Administration (History/Political Science)
- Public Relations (Communication/Business)

Individually Designed Majors (Bachelor of Arts degree) and Minors
The Individually Designed Major (IDM) or Minor is multi-disciplinary in nature and is available only to exceptional students (minimum 3.0 GPA) whose interests and career goals are not met by current majors or minors. A student wishing to design an IDM must work with two full-time faculty members to develop a unique curriculum that does not duplicate substantial portions of existing programs.

With faculty endorsement, approval of the curriculum must be granted by the Office of Academic Affairs. This approval is required by the end of the sophomore year. Forms for Application are available in the Office of Student Records.

A Bachelor of Science (BS) degree is available in these majors:
- Biology
- Chemistry
- Mathematics

A Bachelor of Science in Nursing (BSN) is available in the Nursing major.

An Associate in Arts (AA) degree is available with a major in Pastoral Ministry.

An Associate in Science is available with a major in Health Sciences.

Minors are available in these areas:
- Accounting
- Art
- Art History (Art)
- Biblical Studies (Theology)
- Biology
- Chemistry
- Coaching (Health/Physical Education)
- Communication
- Economics
- Education: Adolescent/Young Adult (7 - 12)
- English
- Entrepreneurship (Business Administration)
- Financial Services Management (Business Administration)
- Fine Arts
- Graphic Communication (Art, Communication)
- Health Education
- History
- International Business (Business Administration)
- Management (Business Administration)
- Management Information Systems (Business Administration)
- Marketing (Business Administration)
- Mathematics
- Multimedia (Art, Information Systems)
- Philosophy
- Programming (Business Administration)
- Psychology
- Sociology
- Spanish (Modern Languages)
- Theater
- Theology
- Women’s Studies
- Writing (English)
- Youth Ministry (Theology)

Licensure Areas

Early Childhood Education (Pre-K - Gr. 3)

Middle Childhood Education (Gr. 4 - 9)
Areas of Concentration—choose two
- Mathematics
- Reading and Language Arts
- Science
- Social Studies

Adolescent/Young Adult Education (Gr. 7 - 12)

Majors:
- Integrated Language Arts
- Integrated Mathematics
- Integrated Social Studies
- Life Sciences
- Life Sciences and Chemistry

Multi-Age Education (Pre-K - 12)
- Mild/Moderate Intervention Specialist
- Spanish
- Visual Arts
GRADUATE PROGRAMS
Graduate programs are offered in education. For further information, please contact the Office of Adult and Graduate Admissions at 216.373.5173 for a copy of the graduate bulletin, or logon to www.notredamecollege.edu/academics/graduatePrograms.html.

ALTERNATIVE METHODS OF LEARNING ASSESSMENT
Notre Dame College acknowledges the fact that learning acquired outside the traditional classroom setting can be equivalent to college-level learning. Upon careful review, and appropriate documentation, academic course credit may be granted by the College.

The number of credits earned through alternate methods of learning assessment may not exceed 32 semester hours. Credits earned through this process must be requested before the beginning of the academic year in which the degree is to be granted. Credits granted in this manner will be listed as part of the student’s official academic record only after all appropriate fees have been paid. All credits will be subject to the approval of the division chairperson and the Vice President for Academic Affairs.

Experiential Learning Credits
Those who have acquired academic knowledge or skills through direct experience, in-service training or non-credit classes may have it validated for college credit. Students apply for such credits through a process called portfolio assessment. Portfolio assessment may not be accepted for credit in certain disciplines or for certain courses. A student should contact the appropriate division chairperson for more information prior to preparing the portfolio.

Proficiency Examinations
Examinations to demonstrate subject matter competency may be taken for credit or non-credit validation for a small fee. Such examinations may not be used to raise an existing grade. A grade of “C” is the minimum acceptable level for credits earned through examination. A student should contact the appropriate division chairperson for more information. All credits received through the Proficiency Examination will appear as PASS on the transcript.

College Level Examination Program (CLEP)
Nationally-normed CLEP examinations are accepted at Notre Dame College to validate knowledge of both general and specific subject areas. CLEP exams may not be taken in areas already successfully completed for course credits. A student should contact the Office of Student Records for more information.

Independent Study and Laboratory Research
To foster independent learning, Notre Dame College encourages talented students to pursue Independent Study Projects and Laboratory Research Projects.

A student with senior standing and a minimum grade point average of 3.0 both in his/her general studies and in the major field of study may qualify for these options.

For Independent Study, a student works with a faculty member who helps him/her define the project, and develop the learning objectives and the method of presentation for the project. A student who wishes to pursue a laboratory research project follows the same procedure and may choose to work with a faculty member who is carrying out a large research project.

The grade and credits earned for the project may be included in the academic major and general degree requirements for graduation. Such consideration must be addressed prior to enrollment.
Cross-Registration
Full-time students can broaden the scope of their educational opportunities through a system of cross-registration. Each term or semester, students in good academic standing may enroll in one undergraduate course at any of the participating colleges and universities in Greater Cleveland. There is no additional tuition charge, but cross registrants are responsible for their own transportation and any laboratory or special course fees required for the host institution's course. First-year students are not encouraged to cross-register. For further information, students should contact the Office of Student Records.

Center for Professional Development
Professional Development
The Center for Professional Development at Notre Dame College provides ongoing professional development for nurses, teachers, athletic coaches, social workers, human services workers and business and intelligence personnel. Flexibly-scheduled courses cover a broad range of topics in nursing, education, mental retardation/developmental disabilities, business, leadership, technology, and athletic coaching.

Certificate Programs:
Certificate programs are offered in Intelligence Analysis, Competitive Intelligence, and Athletic Coaching. Most offerings can be taken for continuing education, undergraduate credit, or graduate credit.

Continuing Education:
• Notre Dame College is an approved provider of continuing education credits by the Ohio Medical Board and Ohio Board of Nursing. Notre Dame College is an approved provider of Social Worker Continuing Professional Education (CPE) by the Ohio State Social Worker and Counseling Board.
• Notre Dame College is an approved provider for Counselor Continuing Professional Education (CPE) by the State of Ohio Counselor and Social Worker Board.
• Notre Dame College is an approved provider of continuing education credits (CEC) for adult services, case management, and early intervention by the Ohio Department of Mental Retardation/Developmental Disabilities (ODMRDD).
• Educators needing Continuing Education Units (CEU) must seek approval from their Local Professional Development Committee (LPDC).
• Notre Dame College is an approved provider of Ohio Department of Education, Pupil Activity First Aid Program.

Senior Citizens:
Notre Dame College invites men and women sixty years of age and older to participate in our Senior Growth program. You may register for undergraduate or Center for Professional Development courses on a space-available basis.

For more information contact the Center for Professional Development at 216.373.5219 or visit our Website at www.notredamecollege.edu, and click on professional development.

Other Policies and Procedures
Classification of Students
A DEGREE-SEEKING STUDENT is one who follows a planned program of studies at Notre Dame College leading to a degree. Minimum credit requirements for class standing are as follows:

- Sophomores 28 semester credits
- Juniors 62 semester credits
- Seniors 92 semester credits

A FULL-TIME STUDENT is one who carries twelve (12) or more credits per semester. A student with a high scholastic average may, with the permission of the Vice President for Academic Affairs, carry more than nineteen (19) semester credits during a given semester.

A PART-TIME STUDENT is one who is registered for fewer than twelve (12) semester credits per semester.

AN AUDITOR is a student permitted to attend classes on a non-credit basis. Requirements to be met by auditors are set by individual instructors. See Advising Center staff for registration information.
ACADEMIC DISHONESTY
Academic dishonesty includes but is not limited to the following: 1) the completion or attempted completion of any academic work by means other than those permitted; and 2) the alteration of a document relating to the grading process, including changing an instructor’s grade book or changing answers on a test after the time to complete the test is over.

Examples of academic dishonesty include but are not limited to: unauthorized collaboration; copying another student’s answers; unauthorized aids on a test; using purchased or pre-made term papers; plagiarism; and destroying another student’s work.

Plagiarism occurs when an individual presents the ideas, thoughts, or words of another as his or her own. Plagiarism includes, but is not limited to: using phrases, sentences, or ideas from a published source, including the Internet, without citing that source; representing another’s unpublished work as your own; rewriting or paraphrasing the work of another without giving credit to that person by citation; and submitting a paper that has been copied, in whole or part, from another’s work as one’s own work.

Generally, the faculty decides upon sanctions for acts of Academic Dishonesty. Thus, Academic Dishonesty may carry specific penalties carried out by the faculty outside of the Judicial Procedure. Those penalties include but are not limited to: failure on the specific assignment, failure of the course, and/or a letter detailing the offense which is kept in the Office of Academic Affairs. Note that although deference is given to the faculty to handle matters of Academic Dishonesty, such action does not preclude further disciplinary action under the College Judicial Procedures.

TRANSFER STUDENTS/TRANSFER CREDITS
Students wishing to transfer from a regionally accredited college or university will be admitted to advanced standing upon presentation of satisfactory evidence of scholarship and character. Generally, a 2.5 GPA on a 4.0 scale is required.

Credits will be given for courses which:
• Are reasonably equivalent in content and subject matter to existing courses
• The applicant received a grade of C or better
• Are from regionally accredited institutions
• Are not considered remedial

Transferred courses carry the credit hours earned only; letter grades and cumulative averages do not transfer. Credits which are five years old or older will be evaluated by the Division Chair in the student’s declared academic major at Notre Dame College. Transfer credit is not granted for courses which duplicate course work taken at Notre Dame College.

ACADEMIC PROGRESS STANDARDS
Note: For purposes of definition, a sophomore is one who has earned at least 28 credits; a junior is one who has earned at least 62 credits; and a senior is one who has completed at least 92 credits.

Freshmen (less than 28 credits) are expected to earn a cumulative GPA of 2.0 or higher, which is considered satisfactory academic progress. A student earning less than a 2.0 will be placed on academic probation. However, if the student does not pass the majority of his/her courses during any one semester he/she is subject to suspension.

STUDENTS WITH DISABILITIES
Notre Dame College makes reasonable accommodations for students with disabilities. A qualified student with a disability may request support services from the Learning Center on a yearly basis. In order to receive services at Notre Dame College, students with disabilities must provide documentation such as a statement from a medical doctor or licensed psychologist which meets state and federal standards for indicating the presence of a disability.
Sophomore, Juniors, and Seniors may be placed on academic probation if their cumulative GPA falls below 2.0 during any semester at Notre Dame College. Upperclass students are also subject to suspension if their grades do not meet GPA minimums one semester following probation.

Students who have been suspended from the College for one semester for lack of academic progress may apply for readmission. A formal letter of request must be sent to the Vice President for Academic Affairs before the beginning of the semester in which the student seeks readmission. If the student is permitted to return, the conditions under readmission is granted will be fully indicated in a letter of readmission.

Students who have been suspended once and who continue to make less than satisfactory academic progress will be dismissed from the College for no less than one academic year. Readmission after dismissal is most unusual and only for compelling reasons.

FINANCIAL AID RECIPIENTS
If a student does not achieve a 2.00 GPA, and if it is judged that the student should be permitted to continue to attend classes, the student may be eligible for certain portions of the financial aid package if the other conditions for financial aid eligibility have been met. The student must demonstrate steady improvement toward the 2.0 GPA.

Definitions of academic progress for the award of financial aid may differ from academic policies. Each student should work closely with the financial aid office to ensure that there is an understanding of those standards and their implications for financial aid eligibility.

ACADEMIC STANDARDS AND GRADES
Letter grades are used to indicate academic achievement in accord with the standards of scholarship maintained at Notre Dame College. The interpretation of each grade and its corresponding point values are specified below:

**NUMERICAL EQUIVALENT** | **QUALITY POINTS**
--- | ---
A = 93-100% | 4.0 per credit hour
A- = 90-92% | 3.7 per credit hour
B+ = 87-89% | 3.3 per credit hour
B = 83-86% | 3.0 per credit hour
B- = 80-82% | 2.7 per credit hour
C+ = 77-79% | 2.3 per credit hour
C = 73-76% | 2.0 per credit hour
C- = 70-72% | 1.7 per credit hour
D = 65-69% | 1.0 per credit hour
F = 0-64% | 0.0 per credit hour

If a student earns an “F” as a final grade in a required course, the course must be repeated. If a student repeats a course in which an “F” or “D,” grade was received, and in so doing earns a higher grade, that higher grade will replace the former in computing the GPA. A course may be counted only once toward graduation requirements. No course may be repeated more than once unless permission is obtained from the Vice President for Academic Affairs.

CR/NC (Pass/Fail) are grades which may be earned in specific instances. CR (Pass) means that a student has achieved a grade of “C” or higher in a course; however, the grade is not computed into the student’s grade point average. NC (Fail) means that a student has not earned academic credit. Ordinarily, a maximum of one course per semester may be taken on a Pass/Fail basis.

Normally, courses which the student may take on a Pass/Fail basis must be outside

• the General Education Requirements of the College
• the requirements of the student’s major or area of certification.

Change of registration from CR/NC to a letter grade or vice versa must be carried out through the Office of Student Records during the first week of the semester.

Departments may declare which of their course offerings may be open for the Pass/Fail option, as well as the number of students who may be admitted on a Pass/Fail basis.
A student who wishes to contest a course grade must initiate the appeal process in writing no later than two weeks after the date the grade was issued.

The designation of “Incomplete” is not a grade. It denotes a limited period of time allotted for a student to complete a course after the end of the term because of extenuating circumstances. An Incomplete is granted only upon the student’s request and with permission of the instructor. If the “I” is not removed within six weeks after the last day of examinations for semester courses, or two weeks after the last day of examinations for Weekend College courses, the grade is automatically changed to an “F.”

W (Withdrawal) indicates the student has withdrawn with permission while passing and within a specified time limit.

Class Attendance
It is expected that students attend each meeting of a course. Attendance policies, however, are set by the instructor, and the student must adapt to the demands of each course. In case of unsatisfactory work because of excessive absence from class, the instructor may give ample warning to the student and then recommend that the student drop the course up to the deadline established for withdrawal.

Academic Probation
A report of scholarship is given to the student at the close of each semester. A student whose grade point average is below 2.0 is placed on academic probation. Unless the student gives evidence of scholastic improvement during the semester after being placed on probation, the student may be suspended from Notre Dame College.

Scholastic improvement means that the grade point average has been raised above the average of the previous semester. Students who have been suspended once and who continue to make less than satisfactory academic progress will be dismissed from the College for no less than one academic year. Readmission after dismissal is most unusual and only for compelling reasons. (Please see Reinstatement in the Admission section.)

Withdrawal from Courses
A student may drop a course and add another only during the first week of the semester. A student may drop a course after the opening week of classes until the 10th week of the semester with a designation of “W” with permission of the Office of Student Records. No new classes may be added. In the Weekend College no courses may be added once the term has begun. A course may be dropped with a designation of “W” before the 4th session of the course. There is a drop/add fee for this service. The student also needs to examine the financial policies statement regarding any refunds for tuition.

Withdrawal from the College
If a student withdraws from the College or is not enrolled for one academic year, he/she must follow catalog requirements and academic policies in effect at the time of readmission or new registration.

Transcripts of Record
Requests for official transcripts of record must be made in writing by the individual student concerned, presented in person, faxed, emailed or mailed to the Office of Student Records. For each transcript, the current fee should accompany the written request. Check the website for the current fee. OFFICIAL TRANSSCRIPTS AND GRADES WILL NOT BE ISSUED FOR PERSONS WHO HAVE A FINANCIAL OBLIGATION TO NOTRE DAME COLLEGE.

HONORS AND AWARDS

Graduation With Honors
To be eligible for graduation with honors, “cum laude,” a student must earn a grade point average of 3.50; for graduation “magna cum laude,” he/she must earn an average of 3.75; for “summa cum laude,” he/she must earn an average of 3.90. Furthermore, the student must have earned at least 128 semester credits, including 64 from Notre Dame College.

Dean’s List (Day/Evening Students)
In recognition of academic excellence, a Dean’s List is compiled each academic semester. To qualify, a student must have an average of 3.50 or greater and must have completed 12 or more hours of graded course work by the end of that semester. An incomplete grade (I) precludes such recognition.

President’s List (Day/Evening Students)
In recognition of a superior level of academic achievement, a President’s List is compiled each academic semester. To qualify, a student must have an average of 4.00 and must have completed 15 or more hours of graded course work by the end of that semester. An incomplete grade (I) precludes such recognition.
**Dean’s List (Combination Students)**

Students doing work in both Semester and Weekend College are Fall Dean’s List-eligible if they meet the qualifications in any combination of Semester I and WECO I courses, and Spring Dean’s List-eligible if they meet the qualifications in any combination of Semester II, WECO II and WECO III courses. Dean’s List qualification requires a student to have earned a GPA average of 3.5 or better and have completed 12 or more hours of graded work within the designated time frame.

**President’s List (Combination Students)**

Students doing work in both Semester and Weekend College are Fall President’s List-eligible if they meet the qualifications in any combination of Semester I and WECO I courses, and Spring President’s List-eligible if they meet the qualifications in any combination of Semester II, WECO II and WECO III courses. President’s List qualification requires a student to have earned an average GPA of 4.00 and have completed 15 or more hours of graded work within the designated time frame.

**St. Catherine Of Alexandria Medal**

The Medal of St. Catherine of Alexandria is awarded annually by Kappa Gamma Pi to a Master’s Degree candidate at Notre Dame College on the basis of unusual and unselfish service to the College.

**Sr. Mary Agnes Bosche Award**

The Sr. Mary Agnes Bosche Award is presented to a traditional undergraduate student. The recipient is chosen based on his or her embodiment of the qualities evident in the life and service of Sr. Mary Agnes Bosche, SND. The recipient must demonstrate honesty and trustworthiness, a commitment to excellence, and selfless service to Notre Dame and the larger community.

**Sr. Mary LeRoy Finn Award**

The Sr. Mary LeRoy Finn Award is conferred upon an adult student who has demonstrated academic excellence and leadership qualities in and out of the classroom. The recipient must have attained a minimum grade point average of 3.5. He or she must also embody the characteristics inscribed on the custom-made award presentation bowl: “Scholarly, Catalyst, Diligent, Spiritual, and Resilient.”

**Kappa Gamma Pi**

The national Catholic college graduate honor society admits ten percent of the graduating class to its membership. Graduating seniors are selected by the faculty. Criteria for membership include qualification for graduation with academic honors, demonstrated leadership and service during the undergraduate years, and strong indications that the students will assume leadership in the future in their Church, or larger civic or professional community.

**Who’s Who**

Each year the seniors elect 10% of their class into membership of Who’s Who Among Students in American Universities and Colleges. Election is based on participation in campus life, activities, service, and leadership.

**STUDENT DEVELOPMENT LEADERSHIP AWARDS**

These awards are presented to students who have been leaders in a formal way as well as to those who contribute in a supportive, behind-the-scenes manner. Students selected for Who’s Who are ineligible.
ACADEMIC AWARDS
A number of disciplines have special awards for high achievement:

Biology
- Award for the senior with the highest grade point average in biology as well as the highest cumulative average.
- Sr. Patricia Hlivak Memorial Award for outstanding service to the biology department.
- Outstanding freshman Biology Student
- O’Neill Scholarship Award.

Business Administration
- Outstanding Business Student Award (for a graduating senior)
- Elizabeth Unkefer Award for outstanding sophomore and junior Business majors.

Chemistry
- The Outstanding Chemist Award for a graduating senior.
- Freshman Chemistry Award for high achievement in freshman chemistry.
- O’Neill Scholarship Award.

Education
- Joseph M. and Aldermira Alfonso Award for Excellence in Early and Middle Childhood education.
- The Hille-Sposet Family Middle School Award for Excellence in Middle Childhood education.
- Special Education Outstanding Student Teacher Award.

English/Communication/Theater
- Hoover-Takacs Award for Excellence in English (for graduating seniors).
- Sr. Mary Luke Arntz Award for Excellence in English.
- Marguerita C. Banks Award for Excellence in Communication (for a graduating senior).
- Quinlivan-Burke Award for Excellence in English (for a junior).
- Carl and Dorothy Harig Award in English & Communication.

Fine Arts
- Senior Art Award
- Certificate for Excellence in Fine Arts.

History/Political Science
- Plaque for Distinguished Work in History/Political Science.
- Outstanding Student in Criminal Justice.
- Outstanding Student in Intelligence Analysis & Research.
- Membership in Phi Alpha Theta International Honor Society in History.

Mathematics
- The Sr. Mary Cleophas Award for Excellence in Mathematics.

Modern Languages
- American Association of Teachers of Spanish and Portuguese for Excellence in Spanish.
- Special Award in Spanish for Excellence in Basic Spanish.

Nursing
- Outstanding RN to BSN Student Award
- Outstanding Pre-Licensure Student Award

Psychology
- Outstanding Performance in Psychology Award.

Special Awards
- President’s Award for Academic and Athletics Award (Male and Female)
- Taylor and Smith Scholarship Award.
- The Tuesday Study Club Scholarship.
DISTINGUISHED FACULTY AWARD
Since 1981, the Distinguished Faculty Award has been presented annually to a full-time faculty member selected by a faculty committee from nominations made by students, alumni, and faculty. The criteria include excellence in teaching, scholarship, and College and community service.

Recent recipients of the award have been:

Marilyn S. Jones, Ph.D. 1995
Roslyn Scheer-McLeod, M.A. 1996
Helen M. Burdenski, SND, D.B.A. 1997
Rachel Morris, M.A 1998
Sandra Grassman, M.B.A. 1999
Beth Anne Tercek, SND, Ph.D. 2000
Inge Schmidt, Ph.D. 2001
Stephen M. Felth, Ph.D. 2002
Barbara Sposet, Ph.D. 2003
Sharon Balchak, Ph.D. 2004
Bruce W. Jones, Ph.D. 2005
Sr. Eileen Quinlan ’74, SND, Ph.D. 2006
Natalie M. Strouse, M.B.A. 2007
Sr. Jeanne Moenk ’68, SND, Ph.D. 2008
Erica Stovall White, Ph.D. 2009
Sr. Mary St. Martha Conrad, SND, M.S. 1995
Marilyn Farinacci, M.F.A. 1996
Kenneth Palko, M.A. 1997
Francis Warnement, M.A. 1998
Lisa Schonberg, M.F.A. 1999
Martin Poluse, Ph.D. 2000
Marilyn Farinacci, M.F.A. 2001
Bernard S. Jesiolowski, Ph.D. 2002
Kenneth Palko, M.A. 2003
Amy Kesegich, Ph.D. 2004
Sr. Mary Karita Ivancic, SND, Ph.D. 2005
Carolyn Leitman, Ph.D. 2006
Peter Manos, M.A. 2007
Alan Braun, M.A. 2008
Les R. Szekely, M.A.T. 2009

OUTSTANDING TEACHING AWARD
In 1987 the Outstanding Teaching Award was instituted to recognize the excellent teaching done by part-time faculty who are a regular part of the teaching staff each year. Based on nominations from students, alumni, and faculty, the criteria for selection include excellence in teaching, service, availability to students, and a commitment to the mission of the College.

Recent recipients of the award have been:

Sr. Mary St. Martha Conrad, SND, M.S. 1995
Marilyn Farinacci, M.F.A. 1996
Kenneth Palko, M.A. 1997
Francis Warnement, M.A. 1998
Lisa Schonberg, M.F.A. 1999
Martin Poluse, Ph.D. 2000
Marilyn Farinacci, M.F.A. 2001
Bernard S. Jesiolowski, Ph.D. 2002
Kenneth Palko, M.A. 2003
Amy Kesegich, Ph.D. 2004
Sr. Mary Karita Ivancic, SND, Ph.D. 2005
Carolyn Leitman, Ph.D. 2006
Peter Manos, M.A. 2007
Alan Braun, M.A. 2008
Les R. Szekely, M.A.T. 2009
ART

Students interested in the visual arts have four options within the fine arts department: studio art, art education, graphic communication or graphic design. Graduates in the fine arts program are prepared for careers as working artists, art educators, museum personnel, visual merchandisers or graphic designers. The major programs emphasize studio and design skills as well as creative thinking and problem solving skills. The strong programs in computer graphics and multimedia will enhance all art majors and lead to entry level positions in the areas of graphic design, web design, multi-media design or a combination of computer-based design work.

STUDIO ART MAJOR
48 Credits

Program Outcomes:
1. Studio art majors will experiment with a variety of techniques and media and demonstrate mastery over these studio skills. Mastery of skills will be displayed in the form of a senior art exhibition.

2. Studio art majors will develop, apply and create works which demonstrate their creativity and mastery skills in the form of a senior portfolio. This portfolio will prepare students for art competition or job interviews and serve as a record of technical range and style.

3. Studio art majors will summarize their design and creative thinking process in both oral and written form as part of their senior portfolio review.

Requirements: 42 Credits
AR 101 Drawing
AR 114 Introduction to Graphic Design
AR 209 Photography I
AR 221 Basic Design
AR 222 Color and Design
AR 311 Art History I: Ancient to Medieval
AR 312 Art History II: Renaissance to Modern
AR 325 Printmaking I
AR 341 Painting I

AR 371 Three-Dimensional Design
AR 377 Ceramics I
AR 490 Professional Practices
AR 491 Senior Studio I
AR 492 Senior Studio II

Emphasis: 3 Credits
All studio majors are required to select an area of emphasis after completing foundation courses and prior to AR 490 and AR 491. Students may select from the list below for a concentration.
AR 102 Drawing II
AR 210 Photography II
AR 326 Printmaking II
AR 342 Painting II
AR 378 Ceramics II

Art Electives: 3 Credits
Studio art majors will receive a portfolio review after the completion of the foundation art courses: AR 101, 114, 209, 221, 222, 325, 341, 371, and 377 and before they are permitted to register for Art 491. A professional portfolio is required as part of the course work in Art 491 and is presented before the entire art faculty. A senior art show is required of all studio art majors and must be presented prior to graduation and after taking AR 491 and 492.

GRAPHIC COMMUNICATION MAJOR
48 Credits

Program Outcomes:
1. Graphic communication majors will experiment with, analyze, apply, and demonstrate an understanding of the visual communication design process using both traditional design skills and the latest computer software. A broad range of communication design and creative problem-solving skills will prepare the student for positions in graphic design, in which communication, writing and design skills are essential.

2. Graphic communication majors will develop and express their ability to communication design problems by developing a successful senior portfolio. The portfolio will display a variety of graphic design and visual communication competency with samples of written communication as well.

Art Requirements: 33 Credits
AR 101 Drawing I
AR 114 Introduction to Graphic Design
AR 209 Photography I
AR 221 Basic Design
AR 222 Color and Design
AR 223 Graphic Design I
AR 224 Graphic Design II
AR/IS 243 Multimedia Development
AR 300 Graphic Design III
AR 314 Impressionism to Today
AR 491 Senior Studio

Art Electives Required: 3 credits in elective AR courses. Recommended for graphic communication majors:
AR/IS 245 Web Site Design and Development

Co-Op Requirements: 3 Credits
AR 295, 395, or 495 Cooperative Education

Communication Requirement: 3 Credits
CA 250 Mass Communications

Communication Requirements: 6 Credits
Choose 6 credits from:
CA 220 Newswriting
CA 305 Film Studies
CA 313 Event/Play Production Apprenticeship
CA 323 Writing for the Non-Print Media
CA 324 Writing for Publication
CA 374 Presentation Techniques
EN 318 Creative Writing

Graphic communication majors will receive a portfolio review after the completion of the foundation courses: AR 101, 114, 209, 221, 222, 223, 224 and 325 and before they are permitted to register for AR 491. A portfolio is required as part of the coursework in AR 491 and is presented before the entire art faculty.

GRAPHIC DESIGN MAJOR
51 Credits

Program Outcomes:
1. Graphic design majors will experiment with, analyze, apply, and demonstrate an understanding of fundamental visual principles of communication design using both traditional design skills and the latest computer software. The emphasis is primarily on print media but may include interactive and web media.

2. Graphic design majors will understand and apply the principles of visual design theory and apply design theories to solve problems in visual communication while developing an individual style.

3. Graphic design majors will demonstrate proficiency in using computer based design tools, in graphic, multimedia and web format. Competency will be evident in the form of a senior portfolio which will prepare the major for entry-level positions in graphic design.

Art Requirements: 45 Credits
AR 101 Drawing
AR 114 Introduction to Graphic Design
AR 209 Photography I
AR 221 Basic Design
AR 222 Color and Design
AR 223 Graphic Design I
AR 224 Graphic Design II
AR 243 Multimedia Design
AR/IS 245 Web Site Design and Development
AR 300 Graphic Design III
AR 400 Graphic Design IV
AR 314 Impressionism to Now
AR 325 Printmaking I
AR 371 Three Dimensional Design
AR/IS 443 Advanced Multimedia Design

Business Requirements: 3 Credits
BU 301 Consumer Behavior
BU 390 Advertising

Co-Op Requirements: 3 Credits
AR 295, 395 or 495

Students will receive a portfolio review after the completion of foundation courses AR 101, 114, 209, 221, 222, 223, 224, 300, 325 and 371 and before they are permitted to register for AR 400. A portfolio is required as part of the coursework in AR 400 and is presented before the entire art faculty.

MULTI-AGE LICENSE IN VISUAL ARTS
(Gr. P-12)
46 Credits

Requirements: 45 Credits
AR 101 Drawing I
AR 102 Drawing II
AR 114 Introduction Graphic Design
AR 209 Photography
AR 221 Basic Design
OR
AR 280 Art Appreciation: A Studio Approach
AR 222 Color and Design
AR 311 Art History I: Ancient to Medieval
AR 312 Art History II: Renaissance to Modern
AR 325 Printmaking I
AR 341 Painting I
AR 360 Art Methods
AR 361 Field Experience
AR 371 Three-Dimensional Design
AR 377 Ceramics I
AR 490 Professional Practices
AR 491 Senior Studio*
Recommended Course: 3 Credits
AR 314 Impressionism to Now

Student teaching should reflect a broad range of developmental experience from elementary through secondary.

See EDUCATION for Professional Education Requirements. Art education majors will receive a foundation portfolio review after completing foundation courses, AR 101, 114, 209, 221, 222, and 325, 341, 371, 377 and before they are permitted to register for AR 491.

All students seeking a B.A. degree in art education (P-12) must present their portfolios as part of the course work in AR 491. The final review is presented before the entire art faculty.

* Senior Show options: An art education major may also choose to present a senior art show after completing AR 492.

FINE ARTS MINOR
18 Credits
Art History Requirements – 6 Credits from:
AR 311 Art History I: Ancient to Medieval
AR 312 Art History II: Renaissance to Modern
AR 313 Women Artists: Historical Survey
AR 314 Impressionism to Today
AR 316 American Art
PH 360 Philosophy of Art

Studio Art Requirements – 6 Credits from:
AR 101 Drawing I
AR 114 Introduction to Graphic Design
AR 209 Photography I
AR 221 Basic Design
OR
AR 280 Art Appreciation: A Studio Approach
AR 222 Color and Design
AR 223 Graphic Design I
AR 325 Printmaking I
AR 341 Painting I
AR 371 Three Dimensional Design
AR 377 Ceramics I

Music Requirements – 6 Credits from:
MU 160 Music Appreciation
MU 211 Music History I
OR
MU 212 Music History II
MU 213 Jazz Appreciation
MU 214 Music Now and Then
MU 320 Music and Art: Historical Survey

GRAPHIC COMMUNICATION MINOR
24 Credits
Requirements:
AR 114 Introduction to Graphic Design
CA 220 Newswriting
CA 250 Mass Communication
AR 209 Photography I
AR 221 Basic Design
AR 223 Graphic Design I
AR 224 Graphic Design II

3 credits from:
CA 323 Writing for the Non-Print Media
CA 324 Writing for Publication

ART HISTORY MINOR
18 Credits
Requirements:
AR 311 Art History I: Ancient to Medieval
AR 312 Art History II: Renaissance to Modern

12 credits from the following:
AR 280 Art Appreciation: A Studio Approach
AR 313 Women Artists: Historical Survey
AR 314 Impressionism to Today
AR 316 American Art
PH 360 Philosophy of Art

ART MINOR
18 Credits
Requirements:
AR 101 Drawing I
AR 221 Basic Design
AR 222 Color and Design

9 credits from:
AR 114 Introduction to Graphic Design
AR 209 Photography I
AR 223 Graphic Design I
AR 325 Printmaking I
AR 340 Painting I
AR 371 Three-Dimensional Design
AR 377 Ceramics I
MULTIMEDIA MINOR
18 Credits

Required Courses:
AR 114 Introduction to Graphic Design
12 credits from:
AR 223 Graphic Design I
AR 224 Graphic Design II
AR/IS 243 Multimedia Development
AR/IS 245 Web Site Design and Development
AR/IS 443 Advanced Multimedia Development

COURSE OFFERINGS

AR 101 Drawing I 3 cr.
A foundation course designed to acquaint the student with the basics of pictorial form. Using the human figure and other subject matter, emphasis will be placed on drawing principles of line, shape, mass, light and shade, perspective and space, surface and structure. The emphasis will be on experimenting with a variety of media. Two, two-and-one-half hour lab periods weekly.

AR 102 Drawing II 3 cr.
Continuation of AR 101. Designed to further develop the student’s perceptual and conceptual drawing skills. Students are encouraged to experiment and explore assigned problems. Two, two-and-one-half hour lab periods weekly. Prerequisite: AR 101.

AR 103 Life Drawing 2 cr.
An introduction to drawing the human figure emphasizing the fundamentals of structure. Includes the study of the human skeletal and muscular systems as they apply to drawing a likeness. One, two-and-one-half hour lab period weekly. Prerequisite: AR 101.

AR 114 Introduction to Graphic Design 3 cr.
This entry level course for the graphic design major provides the student a strong foundation in principles for visual communication problem solving. Vector concepts used in digital design and production will be utilized. There will be group critiques, demonstrations as well as class discussions. Two, two and one half-hour lab periods weekly. Prerequisite: AR 221

AR 191, 192, 193, 194 Selected Topics 1-3 cr.

AR 200 Calligraphy I 2 cr.
Fundamentals of basic lettering, layout, and composition. One two-hour lab period weekly.

AR 201 Calligraphy II 2 cr.
A continuation of lettering fundamentals with emphasis on mastering a chosen alphabet. Concentration on layout, composition, and color. One two-hour lab period weekly. Prerequisite: AR 200.

AR 209 Photography I 3 cr.
An introduction to the basic elements of black and white photography. Fundamental camera and darkroom techniques are studied. Emphasis on photography as an interpretive and illustrative medium in art. Student supplies manual camera and film. Introduction to digital photography as well. Two, two-and-one-half hour lab periods weekly.

AR 210 Photography II 3 cr.
Continuation of AR 209. Designed to further develop the student’s technical and interpretive understanding of black and white photography. Introduction to digital imagery and color. Student supplies manual camera and film. Two, two-and-one-half hour lab periods weekly. Prerequisite: AR 209.

AR 221 Basic Design 3 cr.
Study and practice of fundamental elements and principles of two-dimensional design using a variety of media. Two, two-and-one-half hour lab periods weekly.

AR 222 Color and Design 3 cr.
Study of color and its application to various design concepts as the continuation of design fundamentals and organization. Two, two-and-one-half hour lab periods weekly. Prerequisite: AR 221.

AR 223 Graphic Design I 3 cr.
Graphic Design I connects current digital typesetting practices to the rich typographic heritage that is a foundation in the graphic design discipline. Students become confident identifying type categorically, typesetting, white space and the ways all of these principles are employed in creating good and functional design. Some technical as well as creative pieces will be explored. Some traditional studio as well as Adobe Indesign will be the primary platform for producing design. Two, two and one-half hour lab periods weekly. Prerequisites: AR 114 and AR 221.
AR 224 Graphic Design II 3 cr.
This course continues to develop typography in larger contexts including image and message. Project production phases will include thumbnail to final solution. Print media and the printing process will be explored. Projects generated will include more advanced design work and will develop production skills and tools helpful to preparing visual information for the print industry. Adobe Indesign and Photoshop are the primary digital tools for this class. Two, two and one-half hour lab periods weekly. Prerequisite: AR 223

AR/IS 243 Multimedia/Interactive Media I 3 cr.
Introduction to the concepts of multimedia software, hardware, development concepts and basic visual and human interface design issues. Hands-on experience with multimedia hardware and software. Prerequisite: AR 221 and IS 220.

AR/IS 245 Web Site Design and Development 3 cr.
Emphasizes general principles of designing and building web sites. Use of HTML and web page editors to build complete web sites. Use of scripting languages to tie web sites to databases and add other features to the web site. Prerequisite: AR 221 and IS 220.

AR 280 Art Appreciation: A Studio Approach 3 cr.
A study of three visual arts disciplines through combined lecture and hands-on studio experience. This approach includes the study of artists, styles and techniques related to some of the following disciplines: drawing, painting, printmaking, ceramics, photography, sculpture or fibers. The emphasis will be on direct studio experience. Two two-and-one-half hour lab periods weekly.

AR 300 Graphic Design III 3 cr.
This course continues the study of type, text and image; students create professional multi-page layouts, creative posters and other focused portfolio building projects. Adobe Indesign and Photoshop are the primary digital tools for this class. Two, two and one-half hour lab periods weekly. Prerequisite: AR 224

AR 311 Art History I: Ancient to Medieval 3 cr.
Civilization epochs in the light of environmental influences and the resultant fine and decorative arts. Where feasible, the philosophies of the related cultural subjects are introduced.

AR 312 Art History II: Renaissance to Modern 3 cr.
A survey of major monuments, paintings, and sculpture that have shaped Western art—historical thought from the opening years of the Renaissance to the opening years of the twentieth century.

AR 313 Women Artists: Historical Survey 3 cr.
An historical survey of the roles, contributions, and styles of women artists. Activities such as field trips to studios, galleries, and museums and special lectures are arranged.

AR 314 Impressionism to Today 3 cr.
An historical survey from Impressionism through modern to contemporary art. Concentration on painting and sculpture with frequent field trips to area galleries and museums.

AR 316 American Art—Multicultural Crossroads 3 cr.
This course will begin with a discussion of western European influences on American art. However, the course will also deal with other less familiar influences on the appearance and history of American culture. Native American and African will also be presented in conjunction with American art. All of these influences have contributed to the unique appearance of American art, particularly in the 20th century.

AR 325 Printmaking I 3 cr.
An introduction to basic relief and intaglio printmaking processes with emphasis on traditional as well as contemporary methods. Includes woodcuts, etching and monoprints. Two, two-and-one-half hour lab periods weekly. Prerequisites: AR 101, 221.

AR 326 Printmaking II 3 cr.
A continuation of AR 325. Further exploration of relief and intaglio processes and techniques. Includes more advanced intaglio as well as involvement with mixed-media printmaking. Emphasis on individual exploration of ideas. Two, two-and-one-half hour lab periods weekly. Prerequisite: AR 325.

AR 341 Painting I 3 cr.
An introduction to painting dealing with technical and perceptual concepts. Two, two-and-one-half hour lab periods weekly. Prerequisites: AR 101, 222.

AR 342 Painting II 3 cr.
A continuation of AR 341. Further exploration of technical and perceptual concerns with the emphasis on the growth and development of individual concepts in painting. Two, two-and-one-half hour lab periods weekly. Prerequisite: AR 341.

AR 360 Art Methods 3 cr.
Study of curriculum and instruction appropriate to aesthetic/artistic growth and development from preschool through 12th grade. Methods, materials and approaches are examined for classroom use. Includes practice teaching and studio time. Prerequisite: AR 221 or AR 280.
AR 361 Field Experience for AR 360 1 cr.
Field experience component, to be taken in conjunction with AR 360, required for the observation and practice of art methods for preschool through 12th grade. The course consists of thirty hours of practice teaching at an appropriate site as determined by the instructor and/or Field Placement Director. Must be taken concurrently with AR 360.

TEEL® students seeking Visual Arts licensure should, whenever possible, take AR 360 and AR 361 rather than ED 342 and ED 343.

AR 371 Three-Dimensional Design 3 cr.
The dynamics of three-dimensional design principles based on the elements of form, space, shape, light, and movement. Basic approaches to sculpture are covered, i.e., construction, modeling, carving, with various tools appropriate for each method. Includes traditional and contemporary references. Two, two-and-one-half hour lab periods weekly. Prerequisite: AR 101 or 221.

AR 377 Ceramics I 3 cr.
An introduction to the concepts and skills necessary to work with clay. Basic methods of handbuilding will be covered, including related decorating and firing techniques. Two, two-and-one-half hour lab periods weekly.

AR 378 Ceramics II 3 cr.
Continuation of AR 377. With emphasis on beginning throwing skills, the human form and developing personal expression with the medium of clay. Including advanced decorating techniques and glaze chemistry. Two, two-and-one-half hour lab periods weekly. Prerequisite: AR 377.

AR 391, 392, 393, 394 Selected Topics 1-3 cr.
Independent Study AR 398 1-3 cr.

AR 400 Graphic Design IV 3 cr.
This course covers all aspects of creation and presentation of professional portfolio, emphasizing individual strengths and areas of specialization. The course focuses on the development of personal design methodology. Emphasis based on developing concepts in a mature and thorough manner through research, brainstorming, conceptual development and execution of concept. Project refinement and a culminating project will be required. The senior portfolio will be required at the conclusion of this course. Prerequisite: AR 300.

AR/IS 443 Advanced Multimedia 3 cr.
Focus on the physical design, testing and implementation of a multimedia module developed with an authoring language like Authorware. Prerequisites: BU 222 and 243.

AR 480 Studio Emphasis 3 cr.
This course is designed for the advanced studio art major who has completed an emphasis in one of the following areas; drawing, photography, printmaking, painting or ceramics and wishes to pursue an advanced course of study with the instructor in the same discipline. A research and studio project will be determined prior to registration and with the written permission of the discipline instructor. Prerequisites: AR 101/102 or AR 209/AR 210; AR 325/AR 326 or AR 341/342 or AR 377/AR 378.

AR 490 Professional Practices 3 cr.
Practical concerns essential for an artist to make his/her work visible and marketable. Topics include preparing a resume and artist statement, documenting one’s work photographically, record keeping, exhibiting and working with galleries, news releases, graduate programs and other opportunities for professional growth, setting up a studio. One two and one half hour class weekly.

AR 491 Senior Studio 3 cr.
This course will provide all art majors with both theoretical and practical application in the visual arts. The course will deal with issues of creative problem solving and self-motivation pertaining to the visual arts. Students will prepare professional portfolios for final class presentation. Students will explore individual approaches to creativity and apply their findings to a specialized art project that they will present to the class and to the art faculty prior to completion of the course.

AR 492 Senior Studio 3 cr.
Independent work in a particular field of interest in the visual arts: drawing, painting, sculpture, ceramics, printmaking, or any other area or areas of specialization in which the student shows intermediate or advanced level proficiency. At least two, two-and-one-half hour lab periods weekly. One-hour weekly seminar discussion and periodic critiques with advising instructor.

AR 493, 494 Selected Topics 1-3 cr.
AR 295, 395, 495 Cooperative Education 1-6 cr.
BIOL OGY

Notre Dame College offers two degree programs in biology: Bachelor of Science and Bachelor of Arts.

The major program outcomes for Biology majors are:
• Students will effectively communicate scientific information in both written and oral formats.
• Students will understand the central role evolution has in the field of science.
• Students will have a diverse background in the sciences that will help them to achieve their career goals.
• Students will correlate information learned in their science courses.
• Students will critically evaluate the validity of scientific claims.

BIOL OGY MAJOR:
BACHELOR OF SCIENCE PROGRAM

This program will prepare students for graduate studies and research, medicine, podiatry, dentistry, veterinary medicine, allied health and applied biology. Graduates will have acquired a broad foundation of knowledge in the biological and physical sciences as well as the ability to use this knowledge.

Requirements:
BI 110, 111, 112, 113 General Biology and Lab
BI 260, 261 Ecology and Lab
BI 270, 271 Cell Biology and Lab
BI 481 or 482 Coordinating Seminar
CH 111, 113, 114, 115 College Chemistry and Lab
CH 211, 213, 214, 215 Organic Chemistry and Lab
MA 175 Calculus I
MA 221 Statistics I
PS 180, 181, 182, 183 Basic Physics and Lab
OR
PS 200, 201, 202, 203 College Physics and Lab

Plus 18 additional credits in Biology selected with academic advisor’s approval, with at least two courses from each of the two groups below:

Group A – Cell and Molecular Biology
BI 305, 306 Biochemistry I and Lab
BI 340, 341 Parasitology and Lab
BI 350 Genetics
BI 360, 361 Microbiology and Lab
BI 430 Immunology

Group B – Organismal Biology
BI 300, 301 Mammalian Anatomy and Physiology I and Lab
BI 302, 303 Mammalian Anatomy and Physiology II and Lab
BI 320 Evolution
BI 322 Animal Behavior
BI 460 Endocrinology

SUMMER LABORATORY RESEARCH INTERNSHIPS

Notre Dame College is located in an area known for its major research universities and hospitals. Students are strongly encouraged to apply for summer research work in these facilities. These experiences provide the student with additional learning opportunities, work experience, summer employment, career exploration possibilities, and, in some circumstances, academic credit from Notre Dame College.

BIOL OGY MAJOR:
BACHELOR OF ARTS PROGRAM

64 Credits

This program is designed for those students who plan careers in business, secondary education, technical support or other areas that relate to the Biological Sciences. It is not intended for students planning to enroll in graduate or professional programs in the Biological Sciences or related areas.

Requirements:
BI 110, 111, 112, 113 General Biology and Lab
BI 260, 261 Ecology and Lab
BI 270, 271 Cell Biology and Lab
BI 481 or 482 Coordinating Seminar
BI 295 Cooperative Education
CH 111, 113, 114, 115 College Chemistry and Lab
CH 211, 213,
214, 215 Organic Chemistry and Lab
MA 221 Statistics I
IS 260 Computer Decision-Making Applications or another advisor-approved math course
PS 180, 181, 182, 183 Basic Physics and Lab

Plus 12 additional credits in Biology selected with academic advisor’s approval, with at least one course from each of the two groups below:

Group A – Cell and Molecular Biology
BI 305, 306 Biochemistry I and Lab
BI 340, 341 Parasitology and Lab
BI 350 Genetics
BI 360, 361 Microbiology and Lab
BI 430 Immunology

Group B – Organismal Biology
BI 300, 301 Mammalian Anatomy and Physiology I and Lab
BI 302, 303 Mammalian Anatomy and Physiology II and Lab
BI 320 Evolution
BI 322 Animal Behavior
BI 460 Endocrinology

BIOLOGY MINOR
24 Credits
This minor is proposed specifically for students who have a chemistry background and may already have requirements for certain biology courses.

Requirements:
BI 110, 111, 112, 113 General Biology and Lab
BI 270, 271 Cell Biology and Lab
BI 430 Immunology

Plus 8 additional credits from the following:
BI 305, 306 Biochemistry I and Lab
BI 300, 301 Mammalian Anatomy and Physiology I and Lab
BI 302, 303 Mammalian Anatomy and Physiology II and Lab
BI 350 Genetics
BI 360, 361 Microbiology and Lab
BI 405, 406 Biochemistry II and Lab
BI 460 Endocrinology
BI 475 Advanced Cell Biology
BI 481 or 482 Coordinating Seminar

ADOLESCENT TO YOUNG ADULT LICENSE IN LIFE SCIENCE (Gr. 7-12)
54 Credits

Biology Requirements:
BI 110, 111, 112, 113 General Biology and Lab
BI 260, 261 Ecology and Lab
BI 270, 271 Cell Biology and Lab

8 credits from:
BI 300, 301 Mammalian Anatomy and Physiology I and Lab
BI 302, 303 Mammalian Anatomy and Physiology II and Lab
BI 430 Immunology
BI 460 Endocrinology
BI 470 Advanced Cell Biology

16 credits from:
CH 111, 113, 114, 115 College Chemistry and Lab
CH 211, 213, 214, 215 Organic Chemistry and Lab
PS 180, 181, 182, 183 Basic Physics and Lab

Mathematics Requirement:
MA 221 Statistics I
One additional Math course selected with academic advisor’s approval. Recommended: MA 300 Statistics II.

See EDUCATION for Professional Education Requirements.

DUAL FIELD ADOLESCENT TO YOUNG ADULT LICENSE IN LIFE SCIENCE AND CHEMISTRY (Gr. 7-12)
58 Credits

Biology Requirements:
BI 110, 111, 112, 113 General Biology and Lab
BI 260, 261 Ecology and Lab
BI 270, 271 Cell Biology and Lab

8 credits from:
BI 300, 301 Mammalian Anatomy and Physiology I and Lab
BI 302, 303 Mammalian Anatomy and Physiology II and Lab
BI 430 Immunology
BI 460 Endocrinology
BI 470 Advanced Cell Biology

16 credits from:
CH 111, 113, 114, 115 College Chemistry and Lab
CH 211, 213, 214, 215 Organic Chemistry and Lab
PS 180, 181, 182, 183 Basic Physics and Lab
10 additional credits from:
BI 300, 301 Mammalian Anatomy and Physiology I and Lab
BI 302, 303 Mammalian Anatomy and Physiology II and Lab
BI 320 Evolution
BI 350 Genetics
BI 360, 361 Microbiology and Lab
BI 430 Immunology

Chemistry Requirements:
CH 111, 113, 114, 115 College Chemistry and Lab
CH 211, 213, 214, 215 Organic Chemistry and Lab
CH 305, 306 Biochemistry I and Lab

4 additional credits from:
CH 308 Environmental Chemistry
CH 310, 311 Quantitative Analysis and Lab

8 additional credits from:
PS 180, 181, 182, 183 Basic Physics and Lab
CH 220, 221 Earth Science and Lab

See EDUCATION for Professional Education Requirements.

AREA OF CONCENTRATION IN SCIENCE FOR MIDDLE CHILDHOOD LICENSE (Gr. 4-9)
20 Credits

Requirements:
BI 110, 111, or 112, 113 General Biology and Lab
BI 200, 201 Environmental Science and Lab
CH 100, 101 General Chemistry or
CH 111, 113 College Chemistry and Lab
CH 220, 221 Earth Science and Lab
PS 150, 151 Concepts in Physics and Lab

See EDUCATION for Professional Education Requirements.

COURSE OFFERINGS
All laboratory courses must be taken concurrently with the corresponding lecture courses. A student who withdraws from a lecture course may not continue the laboratory course except under unusual circumstances and with the permission of the instructor. BI 112, 113, or the equivalent is a prerequisite for all biology courses numbered 260 or higher.

BI 105 Introduction to the Biological Sciences 3 cr.
An introductory course designed for NON-SCIENCE majors to fulfill the General Education Requirement in Science or as an elective. Topics addressed include cell structure and function, genetics (including transmission of traits, genetic diseases, and genetic engineering), evolution, cell metabolism, diversity of life, and ecology and environmental concerns.

BI 106 Introduction to the Biological Sciences Laboratory 1 cr.
One three-hour laboratory period weekly, which investigates the topics covered in the lecture. Taken concurrently with BI 105.

BI 110, 112 General Biology I, II 3, 3 cr.
An introductory course primarily for biology majors dealing with molecular, cellular, and organismal biology. The kingdoms of living organisms are surveyed. Topics in genetics, bioenergetics, ecology, and evolution are also included. Prerequisite for all biology courses numbered 260 or higher. Not recommended for non-science majors.

BI 111, 113 General Biology Laboratory I, II 1, 1 cr.
One three-hour laboratory period weekly investigating concepts covered in the lecture material. Taken concurrently with the lecture course.

BI 200 Environmental Science 3 cr.
A study of the natural environment from the perspective of biology, chemistry, and physics including studies of ecosystems, energy, pollution and its consequences in a technological society. Recommended for elementary education students or for any student to fulfill the General Education Requirement in Science.

BI 201 Environmental Science Laboratory 1 cr.
One three-hour laboratory period weekly that includes the field study of ecosystems and stresses the scientific method applied to biological, chemical, and physical investigation. Taken concurrently with BI 200.

BI 204 Human Anatomy and Physiology I 3 cr.
A study of normal structure and function of major body systems primarily designed for students in nursing and health sciences; also includes content related to cellular biology and basic principles of genetics. Must be taken concurrently with BI 205, Human Anatomy and Physiology I Lab.
BI 205  **Human Anatomy and Physiology I Lab**  1 cr.
One three-hour laboratory period weekly. Includes laboratory experiences that investigate concepts presented in Human Anatomy and Physiology I. **Must be taken concurrently with BI 204, Human Anatomy and Physiology I.**

BI 206  **Human Anatomy and Physiology II**  3 cr.
A continuation of Human Anatomy and Physiology I; furthers the study of normal structure and function of major body systems. Prerequisites: BI 204/5; **must be taken concurrently with BI 207, Human Anatomy and Physiology II Lab.**

BI 207  **Human Anatomy and Physiology II Lab**  1 cr.
One three hour laboratory period weekly. Includes laboratory experience that investigate concepts presented in BI 206, Human Anatomy and Physiology II. Prerequisites: BI 204/5; **must be taken concurrently with BI 206, Human Anatomy and Physiology II.**

BI 230  **Basic Anatomy and Physiology**  3 cr.
A study of the structure and function of the systems of the human body; designed for students in elementary education, psychology, and to fulfill the General Education Requirement in Science.

BI 231  **Basic Anatomy and Physiology Laboratory**  1 cr.
One three-hour laboratory period weekly, emphasizing human organ systems, their locations and functions. **Taken concurrently with BI 230.**

BI 240  **General Microbiology**  3 cr.
Introductory microbiology that introduces basic concepts and applications of medical microbiology. Includes morphology, immunology, and physiology of microorganisms. Designed for students in nursing and the health sciences. Prerequisites: BI 204/5 and BI 206/7; **must be taken concurrently with BI 241, General Microbiology Lab.**

BI 241  **General Microbiology Lab**  1 cr.
One three-hour laboratory period weekly. Includes staining and culture techniques used for the identification of unknown microorganism. Designed for students in nursing and the health sciences. Prerequisites: BI 204/5 and BI 206/7; **must be taken concurrently with BI 240, General Microbiology.**

BI 260  **Ecology**  3 cr.
This course provides an overview of the science of ecology. Traditional topics of ecology such as energy flow, nutrient cycling, population growth and inter-actions, and community dynamics are treated as a background from which to approach mathematical concepts and emerging areas of ecology. The latter include behavioral, physiological, and evolutionary ecology. Current and controversial topics in ecology will be discussed. Prerequisites: BI 112, CH 114.

BI 261  **Ecology Laboratory**  1 cr.
Topics will parallel those discussed in lecture. Laboratory focus will be on experiments that exemplify ecological concepts and on the methodology ecologists use to obtain information on populations and communities. Assumptions, limitations, and interpretation of information thus gained will be discussed. **Taken concurrently with BI 260.**

BI 270  **Cell Biology**  3 cr.
An introduction to eukaryotic cell morphology and function with special emphasis on membrane-bound organelles. Topics in macro-molecular synthesis and bioenergetics will also be covered. Prerequisite: BI 112 or CH 114 or the equivalent.

BI 271  **Cell Biology Laboratory**  1 cr.
This laboratory includes studies in cell morphology, growth of cell populations and assays for macromolecules and selected metabolic pathways. **Taken concurrently with BI 270.**

BI 291, 292, 293, 294  **Selected Topics**  1-3 cr.

BI 295, 395, 495  **Cooperative Education**  1-6 cr.
An opportunity for on-the-job experience in a hospital or laboratory supervised by a professional in the area. Hours and credits arranged by the Division. Sophomore status and permission of faculty sponsor required.

BI 300, 302  **Mammalian Anatomy and Physiology I, II**  3, 3 cr.
A study of mammalian anatomy and physiology with emphasis on how these two interrelated concepts contribute to homeostasis. Topics covered in part I include cells, tissues, and the skeletal, muscular, nervous and endocrine systems. Systems covered in part II include the cardiovascular, respiratory, immune, digestive, urinary and reproductive systems.
BI 301, 303  Mammalian Anatomy and Physiology Laboratory I, II  1, 1 cr.
Laboratory studies will parallel the various systems covered in the lecture. The students will study these systems using dissections, 3-D models, computer simulations, microscope slides and experimentation. Taken concurrently with BI 300 and 302.

BI 305  Biochemistry I  3 cr.
This course is a study of the structure and function of biological important molecules from a chemistry perspective. Major topics will include carbohydrates, lipids, nucleotides, proteins, and enzymes. Thermodynamic considerations and kinetic analysis of biochemical systems will be emphasized. Prerequisites: CH 211, 214; Recommended: BI 270, 271.

BI 306  Biochemistry I Laboratory  1 cr.
This laboratory course will focus on the theory and application of basic biochemical techniques used in the study of proteins including biological buffers, chromatography, spectrophotometry, gel electrophoresis, and centrifugation. One three-hour laboratory period weekly. Taken concurrently with BI 305.

BI 320  Evolution  3 cr.
A study of the evidence, processes, and paths of evolution. Areas of emphasis include gradualism, punctuated equilibrium, mass extinctions, endosymbiosis, molecular genetics, and population genetics. Prerequisite: BI 112, 113 or equivalent.

BI 322  Animal Behavior  3 cr.
A study of functional behavior of animals, such as mate choice, feeding, parental care, predation, communication and social behaviors. Discussions of journal articles dealing with current research in these areas are a major part of this class.

BI 330  Comparative Vertebrate Anatomy  3 cr.
A study of major vertebrate groups emphasizing structure, function, and evolution. Variations on the vertebrate body plan and functional morphology of anatomical systems are used as a basis for understanding major adaptive changes in vertebrate evolution. Prerequisite: BI 112.

BI 331  Comparative Anatomy Laboratory  1 cr.
Emphasis is on surveying and comparing the actual structures discussed in lecture. Organ and organ system similarities and differences are compared among the major vertebrate classes within the unifying concept of homology and evolutionary modification. Taken concurrently with BI 330.

BI 340  Parasitology  3 cr.
A study of the morphology, life history, host-parasite relationships, and control of protozoan, helminth, and arthropod parasites as well as the evolution of parasitism. Prerequisite: BI 110, 111 or equivalent.

BI 341  Parasitology Laboratory  1 cr.
One three-hour laboratory period weekly learning techniques of identifying parasites throughout the phases of their life cycles using living specimens, prepared slides, kodachromes and Internet sites. Taken concurrently with BI 340.

BI 350  Genetics  3 cr.
A study of the chemical nature of the genetic material, Mendelian genetics, population genetics, and current genetic research. Pre- or Co-requisite: BI 270

BI 360  Microbiology  3 cr.
The morphology, nutrition, reproduction, and growth of bacteria, fungi, and viruses. Topics in medical and applied microbiology are also covered. Recommended prerequisite: BI 270 or CH 214 or equivalent.

BI 361  Microbiology Laboratory  1 cr.
Laboratory includes the methods of culture, various staining techniques, and methods of identifying bacteria. One three-hour laboratory period weekly. Taken concurrently with BI 360.

BI 391, 392, 393, 394  Special Topics  1-3 cr.

BI 405  Biochemistry II  3 cr.
This course is an in-depth study of the intermediary metabolic pathways responsible for life. Prerequisites: BI 305/CH 305 or the equivalent. Corequisite: BI 406/CH 406.

BI 406  Biochemistry II Lab  1 cr.
This laboratory course will focus on theory and application of molecular biology techniques including the preparation and analysis of DNA and RNA and polymerase chain reaction. One three-hour laboratory period weekly. Corequisite CH/BI 405. Taken concurrently with BI 405.

BI 420  Developmental Biology  3 cr.
A comparative study of patterns (embryology) and process (genetic regulation) leading from fertilized egg to adult organism. Prerequisite: BI 270.
BI 421 Developmental Biology Laboratory 1 cr.
Laboratory studies including embryogenesis in chordates and invertebrates; organogenesis in vertebrates. One three-hour laboratory weekly. **Taken concurrently with BI 420.**

BI 430 Immunology 4 cr.
A comprehensive study of the fundamental principles and recent advances in immunology. Topics include the cellular and molecular control of the immune response, antibodies and immunogenetics, immune system dysfunction, and methods of immunoassay and diagnosis. Prerequisite: BI 270 or equivalent.

BI 460 Endocrinology 3 cr.
A systems approach to the study of the role hormones play in controlling and coordinating organ development and function. Prerequisites: BI 270 and CH 214. Recommended: BI/CH 305, 306.

BI 465 Research Methods 1 cr.
Lecture covering critical topics in the proper design and execution of scientific research. Prerequisite: Permission of instructor(s).

BI 466 Research Methods Laboratory 2 cr.
Laboratory course covering application of research design, execution, data analysis and presentation. Prerequisite: Permission of instructor(s).

BI 470 Advanced Cell Biology 3 cr.
Recent advances in molecular cell biology and molecular genetics in eukaryotes and prokaryotes including control of gene expression, RNA processing, oncogenesis and other relevant topics. Prerequisites: BI 270 and CH 214 or the equivalent.

BI 481, 482 Coordinating Seminar 1, 1 cr.
An in-depth study of some current aspects of biology not covered in the required courses, including discussion of recent journal articles plus an oral presentation of student research papers.

BI 486, 487, 488, 489 Independent Research 1-3 cr.
An opportunity for qualified and capable students to do independent research in the life sciences. Hours and credits arranged with faculty advisor. Prerequisites: BI 465, BI 466 and permission of faculty sponsor.

BI 491, 492, 493, 494 Independent Study 1-3 cr.
An opportunity for qualified students to pursue independent literature surveys of topics in the biological sciences. Hours and credits arranged with faculty sponsor.

**BUSINESS ADMINISTRATION**

Students in the various Business Administration programs are prepared to function as creative, dynamic, morally responsible leaders in a global society. The business faculty strives to foster the ongoing development of the highest standards of personal integrity and the achievement of educational excellence through a challenging course of studies. Graduates of the program will have been educated in a liberal arts tradition, to think critically, to analyze complex processes, and to evaluate important issues with a commitment to respect the earth and all people. They will be ready to move into their chosen career field, to continue with graduate studies, or to enter professional programs such as law or public administration.

**BUSINESS ADMINISTRATION**

**Core Courses**

41 Credits

There is a common core of courses taken by students majoring in most Business Administration programs, including Accounting, International Business, Management Information Systems, Management, and Marketing. (This list does not apply to Sport Management or Human Resources Development.) Several of these courses fulfill General Education Requirements as well.

**Requirements:**

- BU 155, 156  Accounting Principles I, II
- BU 230  Marketing Principles
- BU 240  Management Principles
- BU 360  Corporate Finance
- BU 425  Project Management
- BU 473  Business Law I
- BU 395 or 495  Cooperative Education
- EC 201  Principles of Microeconomics
- EC 202  Principles of Macroeconomics
- IS 260  Computer Decision-Making Applications
- MA 220  Applied Finite Math
- EC/MA 221  Statistics I

In addition to these courses, it is strongly recommended that students complete a Communications course.
Each major program has its own specialized requirements. These are given below.

**ACCOUNTING**

**Program Outcomes:**
Students completing a major in Accounting are prepared to function as accounting professionals and to progress to positions of leadership in the profession. The program is designed to provide students with a thorough understanding of accounting principles; auditing, tax, and reporting practices and planning; and the management of business, accounting, and financial activities. This program also prepares students to pursue graduate study in the field. There are a number of professional certifications in the field of accounting that students majoring in the field may wish to pursue:

- Certified Public Accountant (CPA)
- Certified Internal Auditor (CIA)
- Certified Management Accountant (CMA)
- Certified Information Systems Auditor (CISA)
- Certified in Financial Management (CFM)

Individuals wishing to obtain the Ohio CPA Certificate must, under the Ohio Revised Code, graduate with a baccalaureate or higher degree that includes successful completion of one hundred fifty (150) semester hours of undergraduate or graduate education. Students are strongly urged to pursue a Masters of Business Administration after receiving their baccalaureate degree to meet the semester hour requirement. The total educational program shall include an accounting concentration with related courses in other areas of business administration, as defined by the Accountancy Board of Ohio. These are included in the Business Administration Core Courses.

**Requirements:**
*Business Administration Core Courses + 24 credits in the following:*
- BU 255 Intermediate Accounting I
- BU 256 Intermediate Accounting II
- BU 315 Auditing
- BU 320 Cost Accounting
- BU 455 Advanced Accounting
- BU 458 Federal Income Tax I

**Recommended Coursework:**
- BU 388 Business Ethics
- BU 459 Federal Income Tax II
- BU 474 Business Law II

**HUMAN RESOURCES DEVELOPMENT**

**Program Outcomes:**
Students in Human Resources Development are prepared to work effectively as professionals whose focus is helping organizations maximize the investment made in employees. The Notre Dame graduate will possess excellent interpersonal communication skills and understand the Human Resource professional’s role in working with the organization’s management team and be able to carry out the functions of job analysis and design, recruitment, selection, orientation, performance appraisal, and compensation. Students educated in the liberal arts tradition will think critically, analyze complex processes, evaluate important issues, and work collaboratively in a team setting.

**Requirements:**
All students take a core of courses in the fields of Business Administration and Human Resources Development.

**Selected Business Administration Core (32 Credits)**
- BU 155 Accounting Principles I
- BU 156 Accounting Principles II
- BU 240 Management Principles
- BU 425 Project Management
- BU 473 Business Law I
- BU 395 or 495 Cooperative Education
- EC 201 Principles of Microeconomics
- EC 202 Principles of Macroeconomics
- IS 260 Computer Decision-Making Applications
- MA/EC 221 Statistics I

**Human Resources Development Core (30 Credits)**
- BU 235 Management Information Systems
- BU 300 Principles of Supervision
- BU 341 Human Resources Management
- BU 345 Organizational Behavior
- BU 355 Compensation and Benefits
- BU 436 Labor Relations
- PY 201 General Psychology
- PY 385 Tests and Measurements
- SO 305 Minority Groups
- CA 201 Interpersonal Communication
  OR
- SO 425 Conflict Management

**Recommended Coursework:**
- BU 388 Business Ethics
- PH 200 Critical and Creative Thinking
  Communications course
INTERNATIONAL BUSINESS

Program Outcomes:
Students completing a major in International Business are prepared to function as creative leaders in various positions in a global society. The Notre Dame College graduate possesses technical skills and is also capable of dealing with the many career changes that they will face. In most cases, students who major in international business must declare another major in business, as functional business skills such as accounting, information systems and marketing are important for initial career placement and emphasized more in the early stages of business careers. International skills are generally utilized after mastering functional skills.

Requirements:
Business Administration Core Courses + 24 credits in the following:

Six of the following seven courses (18 credits):
EC 305 Comparative Economic Systems
PO 311 Comparative Politics
PO 312 International Relations
PO 411 International Law
EC 440 International Economics
EC 442 International Finance
BU 450 International Marketing

Plus ONE of the following three components (6 credits):
1. Completion of the 3rd year of a second language
2. At least one semester of study abroad including one upper biennium business course with the approval of the Department
3. An international internship in a country other than one’s home country with the approval of the Department

Recommended Coursework:
HI 332 Transformation of Japan: Feudalism to Nationhood
HI 333 The Middle East: From Islam to Nationalism
HI 334 The Making of Modern China
HI 336 Latin America: A Regional History
TH 370 Religions of the World
BU 388 Business Ethics

MANAGEMENT INFORMATION SYSTEMS

Program Outcomes:
Students completing a major in Information Systems are prepared to function as professionals in the discipline or to continue their education in graduate school. In accordance with the Association for Computing Machinery’s Computing Curricula Report, students who successfully complete the major in Information Systems will be able to analyze information requirements and business processes and be able to specify and design computing infrastructures and information systems that are aligned with corporate strategic missions and goals. They will understand both technical and organizational factors, enabling them to help an organization determine how information and technology-enabled business processes can provide a competitive advantage. They will exhibit strong analytical and critical thinking skills, ethical principles, and interpersonal communication and team skills.

Requirements:
Business Administration Core Courses + 18 credits in the following:
BU 235 Management Information Systems
IS 222 Programming Logic and Design
IS 310 Systems Analysis
IS 323 Information Technology Hardware and Software
IS 335 Network Essentials
IS 350 Database Management Systems

In addition, the MIS student is encouraged to complete either the Programming or Multimedia minor.

Recommended Coursework:
BU 388 Business Ethics
**MANAGEMENT**

*Program Outcomes:*
Students in Management are prepared to function as creative leaders in various positions in society. The Notre Dame College graduate possesses technical skills and is also capable of dealing with the many career changes that they will face. A management graduate educated in a liberal arts tradition will think critically, analyze complex processes, evaluate important issues and work collaboratively in a team setting. Students who major in Management will thoroughly understand the functions of management (planning, organizing, staffing, controlling) in large and small, for profit and not-for-profit enterprises. They will be well equipped to work as a mid-level manager, to continue education in graduate school or to enter professional programs in law, business or public administration.

*Requirements:*
*Business Administration Core Courses + 21 credits in the following:*

- BU 235 Management Information Systems
- BU 300 Principles of Supervision
- BU 341 Human Resources Management
- BU 345 Organizational Behavior
- BU 435 Business and Government
- BU 303 Entrepreneurship
  OR
- BU 436 Labor Relations
1 Upper Biennium in Business Administration or Economics

*Recommended Coursework:*
- BU 388 Business Ethics
- PH 200 Critical and Creative Thinking
  Communications Course

**MARKETING**

*Program Outcomes:*
Students completing a major in marketing are prepared to function as creative leaders in society. Students who major in marketing will demonstrate knowledge and application of marketing principles and will demonstrate the skills necessary to present marketing data in a clear and convincing manner. They will be well prepared to pursue a career in marketing, to continue their education in graduate school, or to enter professional programs such as law or public administration.

*Requirements:*
*Business Administration Core Courses + 21 credits in the following courses:*
- BU 301 Consumer Behavior
- BU 375 Marketing Research
- BU 380 Sales Management
- BU 385 Marketing Management
- BU 390 Advertising
- BU 450 International Marketing

*Including 1 of the following courses:*
- AR 223 Graphic Design I
- IS 243 Multimedia Development
- IS 245 Web Site Design and Development
- CA 209 Black and White Photography I
- CA 220 Newswriting
- CA 323 Writing for the Non-Print Media
- CA 403 Public Relations

**SPORT MANAGEMENT**

*Program Outcomes:*
Provide an interdisciplinary curriculum that permits students to develop strengths in specific fields involving the management of sports, a growing industry in the United States. Students who are interested in careers in sport management, sports facilities management, sports information, or sports marketing will find that this course of study prepares them well for employment or for graduate study.

*Requirements:*
All students take a core of courses in the fields of Business and Sport Management.

*Selected Business Administration Core (35 Credits):*
- BU 155 Principles of Accounting I
- BU 156 Principles of Accounting II
- BU 230 Marketing Principles
- BU 240 Management Principles
- BU 425 Project Management
- BU 395, 495 Cooperative Education
- BU 473 Business Law I
- EC 201 Microeconomics
- EC 202 Macroeconomics
- IS 260 Computer Decision-Making Applications
- MA 221 Statistics
Sport Management Core (24 Credits):
BU 270  Sport Industry: Cultural and Sociological Perspectives
BU 348  Sports Events, Sponsorship and Promotions
BU 462  Legal Issues in Sports
BU 463  Sport Program Administration
BU 465  Sport Facilities Management
HP 321  Applied Exercise Physiology*
PY 201  General Psychology
PY 235  Sports Psychology

* Prerequisite is BI 230/231 Basic Anatomy and Physiology which fulfills the student’s GER for Science with a lab.

In addition to the above courses, each student is encouraged to complete one or more minors in specific, related interest areas. Typical minors include Coaching, Communications, Management, Marketing, and Psychology.

MINOR IN ACCOUNTING
Lower Biennium Prerequisites (8 Credits):
BU 155  Accounting Principles I
BU 156  Accounting Principles II

+ 16 Credits from the following:
BU 255  Intermediate Accounting I
BU 256  Intermediate Accounting II
BU 315  Auditing
OR
BU 320  Cost Accounting
BU 455  Advanced Accounting

MINOR IN ENTREPRENEURSHIP
Requirements – Business Majors (12 Credits):
BU 301  Consumer Behavior
BU 303  Entrepreneurship
BU 380  Sales Management
BU 410  New Venture Creation

Requirements – Non-Business Majors (18 Credits):
BU 150  Accounting Basics
EC 100  Economics and Contemporary Issues
BU 301  Consumer Behavior
BU 303  Entrepreneurship
BU 380  Sales Management
BU 410  New Venture Creation

MINOR IN MANAGEMENT
INFORMATION SYSTEMS
Required Courses (15 Credits):
BU 235  Management Information Systems
IS 222  Programming Logic and Design
IS 260  Computer Decision-Making Applications
IS 310  Systems Analysis
IS 350  Database Management Systems

Plus 1 course from the following (3 or 4 Credits):
Any IS course numbered 223 or higher, or
BU 425  Project Management

MINOR IN FINANCIAL SERVICES
MANAGEMENT
Lower Biennium Prerequisites (14 Credits):
BU 155, 156  Accounting Principles I, II
EC 201  Principles of Microeconomics
EC 202  Principles of Macroeconomics

+ Required Upper Biennium Courses (12 Credits):
BU 370  Investments
EC 331  Money and Banking
EC 432  Public Finance
EC 442  International Finance

MINOR IN INTERNATIONAL BUSINESS
Lower Biennium Prerequisites (17 Credits):
BU 155, 156  Accounting Principles I, II
BU 230  Marketing Principles
EC 201  Principles of Microeconomics
EC 202  Principles of Macroeconomics

+ Required Upper Biennium Courses (12 Credits):
BU 450  International Marketing
EC 305  Comparative Economic Systems
EC 440  International Economics
EC 442  International Finance

MINOR IN MANAGEMENT
Lower Biennium Prerequisites (3 Credits):
BU 240  Management Principles

+ Required Upper Biennium Courses (12 Credits):
BU 300  Principles of Supervision
BU 341  Human Resources Management
BU 345  Organizational Behavior
BU 303  Entrepreneurship
OR
BU 436  Labor Relations

Recommended Electives:
BU 388  Business Ethics
PH 200  Critical and Creative Thinking
Communications course
MINOR IN MARKETING
Lower Biennium Prerequisites (6 Credits):
BU 230  Marketing Principles
EC 201  Principles of Microeconomics
OR
EC 202  Principles of Macroeconomics
+ Required Upper Biennium Courses: 12 Credits from the following:
BU 301  Consumer Behavior
BU 375  Marketing Research
BU 380  Sales Management
BU 385  Marketing Management
BU 390  Advertising
BU 450  International Marketing

MULTIMEDIA MINOR
Required Courses (6 Credits):
AR 114  Introduction to Graphic Design
AR 221  Basic Design
+ 12 Credits from the following:
AR 223  Graphic Design I
AR 224  Graphic Design II
IS 243  Multimedia Development
IS 245  Web Site Design and Development
IS 443  Advanced Multimedia Development

PROGRAMMING MINOR
18 Credits
Required Courses (6 Credits):
BU 222  Programming Logic and Design
MA 332  Introduction to Discrete Mathematics
+ 12 Credits from the following:
IS 223, 224  Visual Basic Programming and Lab
IS 333, 334  Java Programming and Lab
IS 336, 337  C++ Programming and Lab
Other Special Topics programming classes such as Advanced Visual Basic, Game Programming, JavaScript, etc.

COURSE OFFERINGS
BU 150  Accounting Basics 3 cr.
Introductory course in basic accounting principles designed for non-business majors. Financial and managerial accounting topics relevant to the individual or small business owner are presented. Students who have completed BU 155 are not eligible to take this course.

BU 155  Accounting Principles I 4 cr.
Introductory course in financial accounting. Presents basic accounting theory, principles and practices related to double-entry system. Accounting cycle including journalizing and posting entries, preparing worksheet, making adjusting, closing, and reversing entries, and preparing periodic statements is covered. In the Weekend College format, this course is numbered BU 161 and 162. 2, 2 cr.

BU 156  Accounting Principles II 4 cr.
Continuation of BU 155. Application of basic principles of accounting to partnerships and corporations, owner's equities, cost systems, management reports and financial statements analyzes are presented. Prerequisite: BU 155. In the Weekend College format, this course is numbered BU 163 and 164. 2, 2 cr.

BU 192, 193, 194  Selected Topics 1-3 cr.
Topics to be arranged by the department and student. Hours and credits to be arranged by the department.

BU 230  Marketing Principles 3 cr.
Introduction to the social foundations of marketing, the marketing management process, the role of marketing research, the analysis of market opportunities, the selection of target markets, and the development of the marketing mix. Prerequisite: EC 100, EC 201 or EC 202.

BU 235  Management Information Systems 3 cr.
Focus upon ways in which information systems can be created to give competitive advantages to businesses. Emphasis on effective management of information technology and organizational issues in information systems. Exploration of these issues through case studies. Prerequisite: IS 220.
BU 240 Management Principles 3 cr.
An examination of the basic principles, processes, and functions of management, including planning, organizing, staffing, directing, controlling and evaluation. A look at contributions from key classical theorists and present applications of these theories. Prerequisite: EN 110 or equivalent.

BU 255 Intermediate Accounting I 4 cr.
Emphasis on accounting functions; advanced problems of asset and liability valuation, cash flow, and application of funds are presented. Prerequisite: BU 156. In the Weekend College format, this course is numbered BU 261 and 262. 2, 2 cr.

BU 256 Intermediate Accounting II 4 cr.
Continuation of BU 255. Emphasis on stockholder’s equity, theory of income determination and presentation and analysis of financial statements. Prerequisite: BU 255. In the Weekend College format this course is numbered BU 263 and 264. 2, 2 cr.

BU 270 Sport Industry: Cultural and Sociological Perspectives 3 cr.
An introduction to commercial recreation and sports and their function in the leisure service delivery system. Focus on socio/historical perspectives and ethical issues. Discussion of resources, financing, pricing, programming, and marketing.

BU 295 Cooperative Education 1-3 cr.
An on-campus initial work experience designed to introduce the student to the discipline of the workplace. Prerequisite: Sophomore standing and permission of advisor.

BU 300 Principles of Supervision 3 cr.
An examination of the importance of supervising people in the workplace, including the role of the supervisor in understanding human resources problems. Emphasis on the role of the supervisor in handling labor problems, improving communication in the organization, directing, staffing, and training. Prerequisite: BU 240.

BU 301 Consumer Behavior 3 cr.
The decision-making processes which consumers use in selecting and purchasing goods and services, and the psychological, sociological, and cultural factors which influence these decisions. An analysis of the marketing mix with strategies and policies in a behavioral context is covered.

BU 303 Entrepreneurship 3 cr.
Principles and techniques of owning, operating, and managing a small business. How to obtain financing, location, expansion, franchising, facilities and resource management, and legal considerations are presented.

BU 315 Auditing 4 cr.
Concepts and objectives of auditing with emphasis on duties and responsibilities of the external auditor. Auditing standards, procedures, and terminology are presented. Problems relating collection of evidence, evaluation of internal control, verification and preparation of working papers and reports. Prerequisite: BU 256. In the Weekend College format, this course is numbered BU 313 and 314. 2, 2 cr.

BU 320 Cost Accounting 4 cr.
Theory and practice of cost accounting procedures as applied to job cost systems, process cost systems, and standard cost systems. Price setting, determination of profitability and management systems for accountability. Prerequisite: BU 156. In the Weekend College format this course is numbered BU 321 and 322. 2, 2 cr.

BU 341 Human Resources Management 3 cr.
Specific techniques used in managing human resources, such as employee recruiting, selecting, development and training, job analysis, wage and salary administration, performance appraisal, equal employment, safety, security, food services, recreation, communications, employee and labor relations, and collective bargaining relating to the function of management within a business enterprise. Prerequisite: BU 240, junior standing.

BU 345 Organizational Behavior 3 cr.
Study of motivation, leadership, and other various factors which affect individual and group behaviors as they relate to performance, productivity, and satisfaction in work organizations. Prerequisite: BU 240, junior standing.

BU 348 Sports Events, Sponsorship and Promotions 3 cr.
An analysis of techniques and strategies for publicizing and marketing sport and recreation programs. Focus on public relations and promotion, factors affecting consumer behavior, market management, and development of information and marketing plans. Prerequisites: BU 230, BU 270.
BU 355 Compensation and Benefits 3 cr.
A study of the principles and procedures for the determination of compensation levels, benchmark positions, wage structures and methods of payment. The course will also examine fringe benefits, their cost evaluation and the impact that benefits have on employee satisfaction and retention. Prerequisites: BU 156, BU 341.

BU 360 Corporate Finance 3 cr.
Study of how business corporations can plan for, acquire, and make maximum utilization of funds available to them. Extensive review of time value of money calculations and concepts. Investigate effects of taxes on types of business ownership, analysis of financial ratios, capital budgeting, rates of return, and risk analysis. Prerequisites: BU 155, EC 201-202, MA 220 or MA 221.

BU 370 Investments 3 cr.
Study of common and preferred stocks, corporate bonds, government bonds, and other financial investments. Techniques in determining investment objectives and strategies analyzing investment opportunities, and initial development of an investment portfolio are presented. Prerequisite: BU 360.

BU 375 Marketing Research 3 cr.
Fundamentals of collection, analysis, interpretation, presentation, and application of data for the solution of marketing problems. Survey research and experimental design with emphasis on problem definition, research design, primary and secondary data collection, sampling, statistical analysis, and decision making are presented. Prerequisites: BU 230, EC/MA 221.

BU 380 Sales Management 3 cr.
Covers the role of the sales manager in sales training programs, motivating, compensating, and supervising the sales force, and various aspects of sales planning. Prerequisite: BU 230.

BU 385 Marketing Management 3 cr.
Emphasizes the decision-making role of the marketing manager in analyzing market opportunities, selecting target markets, and planning, implementing, and controlling marketing programs (product, price, distribution, and promotion decisions) to reach those markets. Prerequisites: BU 230, EC/MA 221.

BU 388 Business Ethics 3 cr.
Provides a framework for integrating ethics into decision-making in the context of a business/professional environment that is complex, dynamic and increasingly global in scope. Will focus on actual case problems and companies that have developed ethically sound policies in a number of areas, for example, community service, environmental responsibility, work-family programs, labor practices, conflict of interest, falsification of information, Internet privacy, legal compliance, etc. Prerequisite: junior of senior status.

BU 390 Advertising 3 cr.
Examines the place of advertising in the marketing of goods and services, the planning of effective advertising, the use of media in advertising, and the management of advertising.

BU 391-394 Selected Topics 1-3 cr.
Advanced topics in business. Specific credit hours and topics to be arranged with department approval.

BU 395 Cooperative Education 1-3 cr.
A work experience designed to integrate course objectives with a practical experience in an off-campus work environment. Prerequisites: Permission of advisor and junior standing.

BU 410 New Venture Creation 3 cr.
This capstone course completes the study of owning, operating, and managing a small enterprise. Through the use of case studies, emphasis is placed on planning the product or service, screening opportunities, developing financial projections, obtaining capital, and managing growth. The issues surrounding business dissolution are also discussed. The student may complete a business plan for their own venture. Prerequisite: permission of department.

BU 425 Project Management 3 cr.
Capstone course for all Business majors. Includes exploration of Project Management through case studies and projects. This course examines both the technical and behavioral aspects of project management. Students will participate in project teams throughout the semester. Prerequisite: senior standing or permission of instructor.
BU 426 Strategic Management 3 cr.
Provides students the opportunity to enhance their skills to analyze and understand the strategic use of resources, how organizations adapt to rapid technology changes as well as how they restructure and operate in a culturally diverse market. Students work collaboratively on a number of case studies to develop their skills, knowledge and abilities. Prerequisites: BU 240, BU 150 or BU 155, EC 201/202; BU 345 is strongly recommended.

BU 435 Business and Government 3 cr.
An historical as well as current investigation into the roles and relationships between business enterprises and the governmental sector. Governmental regulation and regulatory bodies related to business, antitrust, and other related topics are presented. Prerequisites: BU 240, EC 201/202.

BU 436 Labor Relations 3 cr.
An historical view of the relationship between labor and management including an analysis of the current relationship through an understanding of current labor laws and regulation. Prerequisites: BU 240, EC 201/202 and junior standing.

BU 450 International Marketing 3 cr.
Modification of basic marketing concepts to the global perspective. Differences among markets due to geography, culture, politics, economics, government laws and regulations, and commercial policy and trade practices are emphasized. Prerequisite: BU 230.

BU 455 Advanced Accounting 4 cr.
Concepts, principles, theories, and problems in accounting for business combinations, stock investments, partnerships, branch operations, foreign currency transactions, international operations, and in the preparation of consolidated financial statements. Accounting and reporting by governmental units. Prerequisite: BU 256. In the Weekend College format, this course is numbered BU 456 and 457. 2, 2 cr.

BU 458 Federal Income Tax I 4 cr.
Study of federal income tax laws, regulations and procedures as related and applied to individuals. This will include federal taxation of property transactions as they relate to individuals. Students will be required to complete a Form 1040, utilizing available software. Prerequisite: BU 156. In the Weekend College format, this course is numbered BU 326 and 327. 2, 2 cr.

BU 459 Federal Income Tax II 3 cr.
Study of federal income tax laws, regulations and procedures as related and applied to entities. This will include federal taxation of property transactions as they relate to entities. Includes coverage of partnerships, corporations, estates and trusts. There will be an introduction to research techniques. Prerequisite: BU 458.

BU 462 Legal Issues in Sports 3 cr.
The interaction and application of law to particular topics in sports and recreation, including contractual and business obligations, drug testing, sports violence, labor relations, regulation of intercollegiate and amateur sports, and gender discrimination. Contracts, torts, professional responsibility, and constitutional law issues are explored. Strategies for reducing risks and minimizing litigation will be discussed.

BU 463 Sport Program Administration 3 cr.
An in depth study of recreational programming including assessment of need, scheduling, budgets, hiring and supervision of personnel, equipment management, and evaluation. Prerequisites: BU 240, BU 270.

BU 465 Sport Facilities Management 3 cr.
Principles of financing, operating, and managing a sport and recreation facility. Overview of planning, design, construction, operation, maintenance, security, evaluation and risk management. Prerequisites: BU 240, BU 270.

BU 473, 474 Business Law I, II 3, 3 cr.
BU 491-494 Independent Study 1-3 cr.
Opportunity for the student to study specific topics of interest not covered in curriculum which would aid in overall content knowledge of business or help better prepare student for career. Must have approval of department. Prerequisite: junior standing.

BU 495 Cooperative Education 1-6 cr.
An advanced work experience with clear career or project orientation designed for juniors and seniors with prior on-the-job-training. Prerequisite: permission of advisor.

A maximum of six credits in Cooperative Education may be used toward fulfilling the major requirements or the general degree requirements.

CHEMISTRY

Notre Dame College offers two degree programs in chemistry: Bachelor of Science and Bachelor of Arts. These two degree programs give students a choice in the extent of the chemistry they would like to pursue relative to other areas of study outside the major, for example, in the liberal arts or business.

The major outcomes for students in the Chemistry programs are as follows:

- Students will develop a broad foundation in the chemical and physical sciences.
- Students will analyze and synthesize solutions to chemical problems.
- Students will demonstrate laboratory skills necessary to function as a professional chemist.
- Students will critically evaluate validity of scientific claims.

CHEMISTRY MAJOR:
BACHELOR OF SCIENCE PROGRAM

Graduates in the Bachelor of Science degree program in chemistry will have acquired broad foundation knowledge in the chemical and physical sciences, and the knowledge and skills to either continue graduate education or obtain employment in their professional fields.

Students in the Bachelor of Science degree program in chemistry choose one of three emphasis areas. Each emphasis consists of a common core and specialized coursework in the emphasis of choice.

CHEMISTRY CORE

54 Credits

CH 111, 113, 114, 115  College Chemistry and Lab
CH 211, 213, 214, 215  Organic Chemistry and Lab
CH 305, 306  Biochemistry I and Lab
CH 310, 311  Quantitative Analysis and Lab
CH 344, 345  Analytical Chemistry I and Lab
CH 360, 361  Physical Chemistry I and Lab
CH 427, 428  Coordinating Seminar
MA 175, 176  Calculus I, II
PS 200, 201, 202, 203  College Physics and Lab
**ACADEMIC PROGRAMS/CHEMISTRY 53**

**COMPREHENSIVE CHEMISTRY EMPHASIS**  
(American Chemical Society Curriculum)  
**18 Additional Credits to Chemistry Core Credits**  
This program offers a comprehensive background for students wishing to pursue industrial chemical careers or graduate school in the chemical sciences.

*Requirements: Chemistry Core plus*  
CH 362, 363  Physical Chemistry II and Lab  
CH 413, 414  Advanced Inorganic Chemistry and Lab  
CH 417  Introduction to Polymers  
CH 444, 445  Analytical Chemistry II and Lab  
MA 277  Calculus III  
OR  
MA 221  Statistics I

**BIOCHEMISTRY EMPHASIS**  
**18 Additional Credits to Chemistry Core Credits**  
This program offers a comprehensive background for students wishing to pursue research careers in biochemistry, pharmacology, medicinal chemistry, pharmaceutical chemistry, toxicology, immunology, clinical chemistry, and other areas of biochemical and biomedical research. All these areas require graduate work.

*Requirements: Chemistry Core plus:*  
CH 362, 363  Physical Chemistry II and Lab  
CH 405, 406  Biochemistry II and Lab  
CH 407  Advanced Topics in Biochemistry  
BI 112, 113  General Biology II and Lab  
BI 270, 271  Cell Biology and Lab  

*It is recommended that students in the biochemistry emphasis take the following courses:*

BI 350  Genetics  
BI 460  Endocrinology  
MA 221  Statistics I

**CHEMISTRY PRE-PROFESSIONAL EMPHASIS**  
**23 Additional Credits to Chemistry Core Credits**  
This program offers a comprehensive background for students wishing to attend Medical, Dental, Veterinary, or Graduate Schools.

*Requirements: Chemistry Core plus*  
CH 405, 406  Biochemistry II and Lab  
BI 112, 113  General Biology II and Lab  
BI 270, 271  Cell Biology and Lab  
BI 300, 301  Mammalian Anatomy and Physiology I and Lab  
BI 302, 303  Mammalian Anatomy and Physiology II and Lab  
BI 350  Genetics

**CHEMISTRY MAJOR:**  
**BACHELOR OF ARTS PROGRAM**  
**57 Credits**  
The Bachelor of Arts degree in chemistry is designed for those students who seek a strong background in chemistry, but who anticipate a career in a related area such as health sciences, pharmacology, chemical management, secondary education, chemical information systems, technical publications/communications, patent law, or environmental technology.

*Requirements: Chemistry Core plus:*  
CH 295  Cooperative Education

Although an emphasis area is not required, students in the Bachelor of Arts degree in chemistry may choose to complete the Chemistry/Business Emphasis.

**CHEMISTRY/BUSINESS EMPHASIS**  
**78 Credits**  
*Requirements: Bachelor of Arts program requirements plus:*  
EN 220  Newswriting  
EC 201  Principles of Microeconomics  
EC 202  Principles of Macroeconomics  

+ **12 additional credits from either the Marketing or the Management sequence.**

**Marketing Sequence:**  
BU 230  Marketing Principles  
+ **9 credits from the following:**  
BU 301  Consumer Behavior  
BU 375  Marketing Research  
BU 380  Sales Management  
BU 385  Marketing Management  
BU 390  Advertising  
BU 450  International Marketing

**Management Sequence:**  
BU 232  Business Communication  
BU 240  Management Principles  
+ **6 credits from the following:**  
BU 300  Principles of Supervision  
BU 305  Management Information Systems  
BU 341  Human Resources Management  
BU 345  Organizational Behavior  
BU 435  Business and Government  
BU 436  Labor Relations
CHEMISTRY MINOR

28 Credits

Requirements:
CH 111, 113,
114, 115  College Chemistry and Lab
CH 211, 213,
214, 215  Organic Chemistry and Lab
CH 310, 311 Quantitative Analysis and Lab

+ 6 credits from any upper biennium chemistry courses except CH 427, 428.

DUAL FIELD ADOLESCENT TO YOUNG ADULT LICENSE IN LIFE SCIENCES AND CHEMISTRY (GR. 7 - 12)

60 - 62 Credits

Biology Requirements:
BI 110, 111,
112, 113  General Biology and Lab
BI 260, 261 Ecology and Lab
BI 270, 271 Cell Biology and Lab

+ 10 additional credits from:
BI 300, 301 Mammalian Anatomy and Physiology I and Lab
BI 302, 303 Mammalian Anatomy and Physiology II and Lab
BI 320 Evolution
BI 350 Genetics
BI 360, 361 Microbiology and Lab
BI 430 Immunology

Chemistry Requirements:
CH 111, 113,
114, 115  College Chemistry and Lab
CH 211, 213,
214, 215  Organic Chemistry and Lab
CH 305, 306 Biochemistry I and Lab

+ 4 additional credits from:
CH 308 Environmental Chemistry
CH 310, 311 Quantitative Analysis and Lab

+ 8 additional credits from:
PS 180, 181,
182, 183  Basic Physics and Lab
PS 220, 221 Earth Science and Lab

See EDUCATION for Professional Education Requirements.

AREAS OF CONCENTRATION IN SCIENCE FOR MIDDLE CHILDHOOD LICENSE (GR. 4 - 9)

20 - 22 Credits

BI 110, 111, or
112, 113  General Biology and Lab
BI 200, 201 Environmental Science and Lab
CH 100, 101 General Chemistry and Lab or
CH 111, 113 College Chemistry and Lab
CH 220, 221 Earth Science and Lab
PS 150, 151 Concepts in Physics & Lab

See EDUCATION for Professional Education Requirements.

BINARY PROGRAM IN ENGINEERING

Students who are interested in pursuing a career in engineering may enter the Binary Program in Engineering. Students who major in mathematics or science at Notre Dame College can apply for admission to a binary program at Case Western Reserve University. The application should be made during the junior year. However, a freshman entering Notre Dame College should make known to the academic advisor the intent to enter the binary program so that appropriate course selection may occur.

At the conclusion of the engineering degree requirements the student will receive a B.S. degree from Notre Dame College and a B.S. degree from the School of Engineering, Case Western Reserve University. The program takes a minimum of five years.

Students who wish to pursue engineering after graduation can do this with an undergraduate major in chemistry or mathematics. During the sophomore year the student should know the program requirements of the planned graduate school so that appropriate course electives can be made.

SUMMER LABORATORY RESEARCH INTERNSHIPS

Notre Dame College is located in an area known for its major research universities and hospitals. Students are strongly encouraged to apply for summer research work in these facilities. These experiences provide the student with additional learning opportunities, work experience, summer employment, career exploration possibilities, and, in some circumstances, academic credit from Notre Dame College.
COURSE OFFERINGS

All laboratory courses must be taken concurrently with the corresponding lecture courses. A student must have the permission of the instructor to deviate from this policy. A student who withdraws from a lecture course may not continue the laboratory course except under unusual circumstances and with the permission of the instructor.

CH 100 General Chemistry 3 cr.
An introductory treatment of fundamental principles of chemistry, designed for non-science majors as well as preparation for CH 111.

CH 101 General Chemistry Laboratory 1 cr.
One three-hour laboratory period weekly.

CH 106 Principles of Inorganic Chemistry 3 cr.
Introduction to inorganic chemistry, including fundamental concepts, tools and techniques. The course content will include: atomic structure, bonding, reactions, solutions, reaction dynamics, equilibrium, and gases. This course is not designed for students majoring in chemistry, biology, or environmental science. Prerequisites: MA 100, high school chemistry; corequisite: CH 107 (lab).

CH 107 Principles of Inorganic Chemistry Laboratory 1 cr.
A one, three-hour laboratory period weekly. Corequisite: CH 106.

CH 111, 114 College Chemistry I, II 4, 4 cr.
An introduction to the principles of inorganic chemistry with emphasis on quantitative relationships, atomic and molecular structure, solutions, chemical equilibrium, and chemical kinetics. A weekly one-hour problem/recitation session is required. Prerequisites: One-year high school chemistry or CH 100, and MA 110 or equivalent.

CH 113, 115 College Chemistry Laboratory I, II 1, 1 cr.
One three-hour laboratory period weekly.

CH 116 Principles of Organic and Biological Chemistry 3 cr.
Continuation of the introduction to chemistry with emphasis on organic and biological chemistry. The course content will include: hydrocarbons, alcohols, carbonyls, organic acids and their derivatives, carbohydrates, lipids, proteins, hormones, vitamins, metabolism, and body fluids. This course is not designed for students majoring in chemistry, biology, or environmental science. Prerequisite: CH 106/107; corequisite: CH 117 (lab).

CH 117 Principles of Organic and Biological Chemistry Laboratory 1 cr.
A one, three-hour laboratory period weekly. Corequisite: CH 116.

CH 191, 192, 193, 194 Selected Topics 1-3 cr.

CH 211, 214 Organic Chemistry I, II 3, 3 cr.
Treatment of fundamental concepts of aliphatic and aromatic organic chemistry, structural theory, reaction mechanisms, and synthetic methods. An introduction to structure determination using spectroscopic methods. Prerequisites: CH 111 and 114 or their equivalent.

CH 213, 215 Organic Chemistry Laboratory I, II 1 cr.
One three-hour laboratory period weekly.

CH 220 Earth Science 3 cr.
Study of the structure of the earth, rocks and minerals, continents and ocean basins, weather and climate, and stars and planets.

CH 221 Earth Science Laboratory 1 cr.
One three-hour laboratory period weekly.

CH 225 Science for Living 3 cr.
Presentation of physical and life science discoveries which impact our way of life and their application in today’s world. Intended to fulfill the General Education Requirement in Science.

CH 226 Science for Living Laboratory 1 cr.
Development of an understanding of the experimental nature of science and an introduction to data analysis and scientific reporting.

CH 295, 395, 495 Cooperative Education 1-6 cr.
A program which enables students to receive credit for work, paid or volunteer, related to their academic studies in their major field, both to make these studies more practical and to open possibilities for employment after graduation. Prerequisite: sophomore status.
CH 305 Biochemistry I 3 cr.
This course is a study of the structure and function of biological important molecules from a chemistry perspective. Major topics will include carbohydrates, lipids, nucleotides, proteins, and enzymes. Thermodynamic considerations and kinetic analysis of biochemical systems will be emphasized. Prerequisites: CH 211, 214. Recommended: BI 270, 271.

CH 306 Biochemistry I Laboratory 1 cr.
This laboratory course will focus on the theory and application of basic biochemical techniques used in the study of proteins including biological buffers, chromatography, spectrophotometry, gel electrophoresis, and centrifugation. One three-hour laboratory period weekly.

CH 308 Environmental Chemistry 3 cr.
A survey of chemical phenomena in the earth’s environment. The study of sources, reactions, transport, effects and fates of chemicals in the water, soil and air, and how humans influence these processes. Prerequisite: CH 211.

CH 310 Quantitative Analysis 3 cr.
A study of the quantitative and statistical aspects of chemical analysis. Prerequisite: CH 114.

CH 311 Quantitative Analysis Laboratory 1 cr.
Laboratory will focus on volumetric and gravimetric techniques, some use of instrumentation and computer treatment of data.

CH 344 Analytical Chemistry I 3 cr.
An introduction to the theory and practice of instrumental methods of analysis including electrochemistry, chromatography, and spectroscopy. Prerequisites: CH 211, 214, 310.

CH 345 Analytical Chemistry I Laboratory 1 cr.
Laboratory practice using basic electrochemical, chromatographic, and spectroscopic instrumentation.

CH 360 Physical Chemistry I 3 cr.
An integrated classical and quantum approach to thermodynamics, statistical mechanics, dynamics, atomic and molecular structure. Prerequisites: PS 200, 202; MA 175.

CH 361 Physical Chemistry I Laboratory 1 cr.
One three-hour laboratory period weekly.

CH 362 Physical Chemistry II 3 cr.
An integrated classical and quantum approach to thermodynamics, statistical mechanics, dynamics, atomic and molecular structure. Prerequisite: CH 360.

CH 363 Physical Chemistry II Laboratory 1 cr.
One three-hour laboratory period weekly.

CH 381 Technical Writing 3 cr.
Development of organizational and writing techniques for preparing technical communications, scientific research papers, publications, grant proposals, etc.

CH 405 Biochemistry II 3 cr.
This course is an in-depth study of the intermediary metabolic pathways responsible for life. Prerequisites: BI/CH 305 or the equivalent. Corequisite: CH/BI 405.

CH 406 Biochemistry II Laboratory 1 cr.
This laboratory course will focus on theory and application of molecular biology techniques including the preparation and analysis of DNA and RNA and polymerase chain reaction. One three-hour laboratory period weekly. Corequisite CH/BI 405.

CH 407 Advanced Topics in Biochemistry 2 cr.
This course is a study of contemporary topics of biochemistry through application of basic principles of biochemistry. Prerequisites: BI/CH 405 or the equivalent.

CH 410 Toxicology 3 cr.
The study of clinical and pharmacological aspects of toxins, their biochemical action and interaction with the body. Prerequisite: CH 305.

CH 413 Advanced Inorganic Chemistry 3 cr.
The study of chemical bonding, structure, and reaction mechanism in inorganic chemistry based on modern physical chemical concepts. Organometallic complexes are stressed. Prerequisite: CH 114. Recommended: CH 360.

CH 414 Advanced Inorganic Chemistry Laboratory 1 cr.
Laboratory designed to apply principles of Advanced Inorganic Chemistry. One three-hour laboratory period weekly.
CH 417 Introduction to Polymers 3 cr.
The study of synthesis, analysis, properties, and uses of polymers. Prerequisites: CH 211, 214.

CH 421, 422, 423, 424, 425, 426 Special Topics 1-3 cr.
Advanced topics in Chemistry to be arranged by the instructor and students. Hours and credits arranged by the instructor.

CH 427, 428 Coordinating Seminar 1, 1 cr.

CH 432 Coordinating Seminar: Environmental Science 1 cr.

CH 444 Analytical Chemistry II 2 cr.
Advanced theory and analytical techniques in electrochemistry, chromatography, and spectroscopy, including hyphenated techniques. Prerequisite: CH 344.

CH 445 Analytical Chemistry II Laboratory 2 cr.
Laboratory practice in advanced analytical techniques using sophisticated chemical instrumentation and hyphenated methods, such as GC-MS and carbon-13 NMR. Prerequisites: CH 344, 345. Two three-hour laboratory periods weekly.

CH 465 Research Methods 1 cr.
Lecture covering critical topics in the proper design and execution of scientific research.

CH 466 Research Methods Laboratory 2 cr.
Laboratory course covering application of research design, execution, data analysis and presentation.

CH 473, 474 Research Topics 1-3 cr.
An opportunity for students to undertake laboratory research under faculty direction. Hours and credit arranged by the department. Participation in the research seminar and a written report are required. Prerequisite: CH 465/466 or permission of faculty sponsor.

CH 480 Vitamins and Minerals 3 cr.
Study of the biochemistry of vitamins and minerals. Topics include deficiency and toxicity symptoms, mechanism of vitamin and mineral action, and vitamins and cancer. Prerequisite: CH 305. Recommended: BI 270 and BI 302.

CH 491, 492, 493, 494 Independent Study 1-3 cr.
An opportunity for qualified and capable students to do independent work in chemistry. Hours and credit arranged by the instructor.

COMMUNICATION

Program Goals:
Graduates of the communication program are qualified to pursue graduate studies or a variety of careers requiring problem-solving, critical thinking, critical listening, and inferential reading. Graduates demonstrate effective speaking and writing skills in a variety of contexts. With a broad and integrated approach to the field of communication, including coursework in both process and theory, students will be prepared for graduate study in the field as well as for related areas such as journalism, law, mediation, and other disciplines.

COMMUNICATION MAJOR
33 Credits

Requirements (21 credits):
CA 201 Interpersonal Communication
CA 250 Mass Communication
CA 374 Presentation Techniques
CA 376 Intercultural Communication
CA 380 Organizational Communication
CA 401 Communication Theory
CA 495 Cooperative Education (3 cr.)

Four of the following (12 credits):
CA 212 Oral Interpretation
CA 220 Newswriting
CA 305 Film Studies
CA 309 Acting and Directing
CA 313 Event/Play Production Apprentice
CA 323 Writing for the Non-Print Media
CA 324 Writing for Publication
CA 403 Public Relations
CA 410 TV/Radio

Recommended Coursework:
EN 312 History of the English Language
MA 221 Statistics I (= GER mathematics)
PY 201 General Psychology
 (= GER social science)

Writing, sociology, literature, political science, history, philosophy.
COMMUNICATION MINOR

**21 Credits**

**Requirements:**
- CA 201 Interpersonal Communication
- CA 250 Mass Communication
- CA 374 Presentation Techniques
- CA 376 Intercultural Communication

*Three of the following:*
- CA 212 Oral Interpretation
- CA 220 News writing
- CA 305 Film Studies
- CA 309 Acting and Directing
- CA 313 Event/Play Production Apprenticeship
- CA 323 Media Writing
- CA 324 Advanced Media Writing
- CA 380 Organizational Communication
- CA 401 Communication Theory
- CA 403 Public Relations
- CA 410 TV/Radio

PUBLIC RELATIONS MAJOR

**57 Credits**

**Program Goal:**
Through an applied approach to the field of communication, coursework in usual practices and key skills will prepare students for entry level positions in public relations for businesses and non-profit organizations.

**Core Communication Requirements (21 credits):**
- CA 201 Interpersonal Communication
- CA 250 Mass Communication
- CA 374 Presentation Techniques
- CA 376 Intercultural Communication
- CA 380 Organizational Communication
- CA 401 Communication Theory
- CA 495 Cooperative Education (3 cr.)

**Public Relations Requirements (18 credits):**
- BU 390 Advertising
- CA 220 News writing
- CA 323 Media Writing
- CA 324 Advanced Media Writing
- CA 403 Public Relations
- CA 410 TV/Radio

*Six of the following (18 credits):*
- AR/CA 209 B/W Photography I
- AR 223 Graphic Design I
- AR 224 Graphic Design II
- BU 230 Marketing Principles
- BU 235 Management Information Systems
- BU 240 Management Principles

**Recommended Coursework:**
- AR 221 Basic Design (= GER in fine arts)
- MA 221 Statistics I (=GER mathematics)
- PY 201 General Psychology
  (= GER social science)

**Graphic Communication Minor (see Art)**
**Theater Minor (see Theater)**
**Writing Minor (see English)**
**Language Arts Licensure 7-12 (see English)**
**Marketing Minor (see Business)**

COURSE OFFERINGS

* A college level composition course is a prerequisite to most communication courses.

**CA 100 Elements of Speech**

3 cr.
Introduces the speech communication process, both theory and practice. Primary goals are to increase confidence and reduce anxieties about public speaking.

**CA 152, 252, 352, 452 Study Tours**

1-6 cr.

**CA 171, 271, 371, 471 Workshops**

1-3 cr.

**CA 191, 192, 193, 194 Selected Topics**

1-3 cr.

**CA 201 Interpersonal Communication**

3 cr.
Studies interpersonal levels of communication and their applications. Skills developed and topics explored include verbal and non-verbal effectiveness; self-disclosure and assertiveness; active and empathic listening; and a variety of dyadic transactions.

**CA 209 Black and White Photography I**

3 cr.
An introduction to the basic elements of black and white photography. Fundamental camera and darkroom techniques are studied. Emphasis on photography as an interpretive and illustrative medium in art, communication, and journalism. Student supplies manual camera and film. Two two-and-one-half hour lab periods weekly.
CA 212  Oral Interpretation  3 cr.
Also listed as TR 112
Explores basic theory and practice in the art of communicating literature: prose, poetry, and drama. Selection, analysis, and performance are the primary areas of focus.

CA 220  Newswriting  3 cr.
Introductory journalism course teaching basic skills in writing news for print, broadcast and web. Students learn to write clearly, concisely and accurately under deadline and will submit articles to the student newspaper, Notre Dame News.*

CA 232  Professional Communication  3 cr.
Study of written and oral communication theory and its importance in accomplishing organizational objectives. Practical exercises will be reviewed to build on basic skill requirements.

CA 250  Mass Communication  3 cr.
An introduction to mass communication through study of the commercial, historical and social underpinnings of American mass media and information industries.*

CA 261  The Drama and Theater  3 cr.
Study of dramatic literature, acting, stage design, production, and theatrical styles and trends from the classical age of Greece to the middle of the nineteenth century. Recommended preparation for CA 262.*

CA 262  Modern Drama and Theater  3 cr.
Study of dramatic literature, acting, stage design, production, and theatrical styles and trends from Ibsen to the present. Recommended preparation: CA 261.*

CA 295, 395, 495  Cooperative Education  1-6 cr.

CA 305  Film Studies  3 cr.
Explores film as an art form, treating its language, history, and genres with special emphasis on the roles of those under-represented in the film industry. Many films, arranged around various themes and styles of directing, are viewed as primary texts in the course. International films are integrated into the course as well.*

CA 309  Acting and Directing  3 cr.
Provides basic laboratory training in techniques of acting and directing through practical exercises with short scenes and plays. Work on voice and movement. Interpretation skills, performance analysis, and the planning and conducting of rehearsals are used to achieve an individual approach to acting and directing.

CA 313  Event/Play Production Apprenticeship  3 cr.
Offers practical experience in event and theatrical production. Includes class work and participation in the stages of an actual event or production. Hands-on activities are required of all students. All aspects of producing are explored, including research, design, promotion, execution, management and evaluation.

CA/EN 323  Media Writing  3 cr.
Offers practice in professional writing skills needed for careers in advertising, public relations, radio, and television. Prerequisite: CA/EN 220 or Department permission.

CA/EN 324  Advanced Media Writing  3 cr.
An advanced professional writing course, providing intensive practice in writing blogs, commentaries, and features for publication in print and web. Prerequisite: CA/EN 220 or Department permission.

CA 374  Presentation Techniques  3 cr.
Practice in a variety of public speaking forms serves as focus: advanced work in the extemporaneous mode, as well as an introduction to manuscript, memorized, and impromptu styles. Experiences with special occasion speaking take students beyond the confines of the classroom into settings involving larger spaces, technical considerations, and other challenges.

CA 376  Intercultural Communication  3 cr.
Probes the influence of individuals’ backgrounds on cross-cultural experiences. The roles of ethnicity, gender, race, religion, and sexual orientation are explored by examining how verbal and non-verbal messages are generated and interpreted. Practice with specific skills will empower students to become competent intercultural communicators.

CA 380  Organizational Communication  3 cr.
Explores organization communication theory and its application to real world public relations cases involving business, nonprofit, and governmental organizations.*

CA 391, 392, 393, 394  Selected Topics  1-3 cr.

CA 401  Communication Theory  3 cr.
Surveys the different ways in which communication has been conceptualized, described, and explained. Explores the powers and limitations of various theories and perspectives.* Junior/senior standing.
CA 403 Public Relations 3 cr.
Studies the historical antecedents and contemporary practice of public relations in America. Special emphasis is placed on day-to-day tasks, skills, and responsibilities of practitioners. Opportunity for juniors and seniors to explore specific issues and meet professionals in the multi-faceted field of public relations.* Prerequisite: CA 220 or department permission.

CA 410 Television and Radio 3 cr.
An in-depth analysis of the video and audio industries such as TV and cable networks, AM and FM radio, the music industry, and the developing integration of video and computer networks. Special attention is paid to the role of advertising, the impact of video and audio in popular culture, and ethical dilemmas.* Recommended preparation: CA 220.

CA 491, 492, 493, 494 Independent Study 1-3 cr.
Offers opportunities for junior and senior level students in good academic standing and possessing the necessary skills to pursue a research topic or to develop a project. Closely directed by a faculty member.

ECONOMICS

Economics is a discipline that examines society’s responses to the problem of scarcity. This necessitates that people make choices, and hence, deals with decision-making, problem-solving and critical thinking. Economics courses are offered to fulfill the social science requirement in the General Education Requirements, and to support the various majors offered by the Business Administration Division and various interdisciplinary majors. Although there is no major offered in Economics, students may obtain a minor.

MINOR IN ECONOMICS

Lower Biennium Prerequisites (6 Credits):
EC 201 Principles of Microeconomics
EC 202 Principles of Macroeconomics

12 additional credits in Upper Biennium Economics courses.

COURSE OFFERINGS

EC 100 Economics and Contemporary Issues 3 cr.
A general introduction to the study of economics, including both micro- and macroeconomics concepts and ideas, as reflected in current domestic socioeconomic and global issues. NOTE: This course is not open to students who have successfully completed the Principles sequence (EC 201, 202).

EC 201 Principles of Microeconomics 3 cr.
The second of a two-course sequence; this course introduces students to the social science of economics, and then examines the behavior of individual consumers and firms, as well as the role of government, in the product and resource markets. On what bases are decisions made to buy (demand) and sell (supply)? How are these markets structured? What if the market system does not work, or is not allowed to work? What is the proper role of the government in a market-based economy? Prerequisite: EC 202, or permission of instructor.
EC 202 Principles of Macroeconomics 3 cr.
The first of a two-course sequence in Principles of Economics; this course examines the goals of the macroeconomy (full employment, domestic price stability, economic growth, and stable international economic relations) and how they are promoted by the government’s use of fiscal and monetary policy; the course concludes with a formal introduction to international economics, including the micro-based topics of international trade theory and commercial policy, as well as international finance and open-economy macroeconomics. Prerequisite: MA 110 or equivalent recommended.

EC 221 Statistics I 3 cr.
See MA 221 for course description.

EC 300 Statistics II 3 cr.
See MA 300 for course description.

EC 304 Economic History of the United States 3 cr.
A topical approach, within a chronological context, to the development of the American economy; topics examined include agriculture, industry, finance, transportation and communication, commerce, labor, and the role of the government in the economy.

EC 305 Comparative Economic Systems 3 cr.
a non-quantitative course that examines the bases for comparing economies and economic systems; studies the cultural and historic development of economies ranging from open-market capitalistic systems to centrally planned economies, and the hybrid of market socialism; analyzes examples of each of these at various levels of maturity and development. Prerequisite: EC 201-202 or permission of instructor.

EC 331 Money, Banking and Global Financial Markets 3 cr.
An examination of the various forms of money and other financial assets and the global markets in which they are traded; the roles of banks and other financial intermediaries, the instruments which they trade, and the effect of their behavior on their customers and the economy; the governments’ monetary policies and their impact on the economic activity of their respective countries. Prerequisite: EC 201-202 or permission of instructor.

EC 350 Managerial Economics 3 cr.
An application of microeconomic theory and methods to business and administrative decision-making; both the neoclassical approach, including a detailed treatment of supply and demand, the theory of the firm, and efficiency in a general equilibrium framework, and modern contributions of economics in the areas of coordination, motivation, organization, and strategy, e.g., the economics of transactions costs and information problems, are presented. Historical and international comparisons of management issues are made. Prerequisite: EC 201-202 or permission of instructor.

EC 432 Public Finance 3 cr.
An examination of the role of the public sector (government) in the economy, especially how it spends and raises money: the traditional functions of government economic policy; how government spending and taxing policies are made; public expenditure programs such as welfare, social insurance, and health care; principles of government financing; the practice of taxation, especially by the national government; and intergovernmental financial relations. Prerequisite: EC 201-202 or permission of instructor.

EC 435 Business and Government 3 cr.
See BU 435 for course description.

EC 440 International Economics 3 cr.
An examination of key issues facing the global economy, including trade theory and policy, protectionism and trade blocs, the mobility of labor and capital through multinational corporations and otherwise, various exchange rate systems and how they affect international business, issues of economic development and transition to market economies. Prerequisite: EC 201-202 or permission of instructor.

EC 442 International Finance 3 cr.
A study of the international monetary system and the balance of payments; foreign exchange markets and their implications for businesses involved in global decision-making; the issues surrounding foreign investment; international banks and other global financial resources. Prerequisite: EC 201-202 or permission of instructor.
EC 480 Labor Economics 3 cr.
A study of the workings and outcomes of the market for labor: the factors determining the demand for labor, and the labor supply decisions of workers; issues relating to the structure of wages and compensation; the incentives for and effects of educational and training investments; the effects of unions on wages, productivity, etc.; the employment and wage effects of such social policies as minimum wage, OSHA, and antidiscrimination laws; the problems of unemployment and the impact of wages on inflation. Prerequisite: EC 201-202 or permission of instructor.

EC 391, 392, 393, 394 Selected Topics 1-3 cr.
Possible topics include the economics of gender issues, health economics, and the economics of environmental issues. Prerequisite: EC 201-202 or permission of instructor.

EC 491, 492, 493, 494 Independent Study 1-3 cr.
Opportunity to work on a special project or investigation designed by the student and approved by the faculty sponsor. Prerequisite: Senior standing.

EDUCATION

TEACHER EDUCATION
Notre Dame College has a long tradition of teacher education. Students may pursue programs leading to Ohio licensure in early childhood, middle childhood, special education, adolescent/young adult and multi-age education. Those pursuing adolescent/young adult and multi-age licensure also pursue an academic major.

The detailed organization of the teacher education program and its specific directives are outlined in the Education Handbook.

Program Goals:
Driving the conceptual framework for the teacher education division at Notre Dame College is the institutional mission statement of educating “a diverse population...for personal, professional, and global responsibility” and the College motto, “Changing the world, one student at a time.” Current theory and research, state and national standards, the standards of specialized professional associations and the concerns of the division’s PK-12 partners have further aided the division in reshaping and redefining its conceptual framework. Summarized as “changing the classroom, one teacher at a time,” the major themes articulated by the conceptual framework guide candidate performance outcomes and the system by which the division, its programs, and its candidates are assessed.

Changing the Classroom, One Teacher at a Time
The teacher education division of Notre Dame College believes that, in order for its program completers to impact classrooms, candidates must possess the appropriate knowledge bases in the content areas in which they will be asked to teach. They will also need the skills necessary to engage students of diverse backgrounds, and they will need to collaborate with all members of the school community.

Through its undergraduate licensure programs, Notre Dame College’s teacher candidates will:
• Be well-grounded in general studies (e.g., human development and learning) and in the specific disciplines (e.g., mathematics, special education).
• Be familiar with students in a variety of settings.
• Be able to use multiple teaching strategies to work effectively with learners of diverse abilities, learning styles, and cultural backgrounds.
• Possess the skills to collaborate effectively with parents, colleagues, and other stakeholders.
• Be reflective in their education practices.
These five outcomes are the foundation of the coursework, classroom activities, assessments, and field experiences prescribed for each licensure program. Together, the five outcomes form the three essential themes of the division’s conceptual framework: the importance of culturally-relevant teaching, a variety of field experiences, and the importance of collaboration within the school community.

Division Note:
Students seeking licensure in education must receive a grade of C- or better in all education (ED) courses.

Student Teaching:
Students who are seeking a bachelor’s degree will take twelve (12) hours of student teaching. Students who participate in graduation in May and student teach the following fall will take twelve (12) hours of student teaching. The degree will be earned and the diploma will be presented upon the completion of student teaching.

LICENSURE AREAS

Early Childhood Education (Pre-K - Gr. 3)

Middle Childhood Education (Gr. 4 - 9)
Areas of Concentration – choose two
Mathematics
Reading and Language Arts
Science
Social Studies

Adolescent/Young Adult Education (Gr. 7 - 12)
Majors:
Integrated Language Arts
Integrated Mathematics
Integrated Social Studies
Life Sciences
Life Sciences and Chemistry

Multi-Age Education (Pre-K - 12)
Mild/Moderate Intervention Specialist (K-12)
Spanish (PreK-12)
Visual Arts (PreK-12)

LICENSURE FOR EARLY CHILDHOOD EDUCATION (ECE) (PRE-K - 3)
The Early Childhood Education (ECE) field-based licensure program prepares undergraduates and post-baccalaureate PreK-3 candidates with the knowledge, skills, and dispositions required to successfully meet the educational needs of young children. The program is designed to meet the National Association for the Education for Young Children (NAEYC) initial accreditation standards, NCATE standards, and requirements for the EC licensure in the State of Ohio. The State of Ohio expects EC candidates to pass Praxis II Education for Young Children with a core of 166 or better. They must also pass the Principles of Learning and Teaching Test for grades PreK-3 with a qualifying score of 166 or better.

Throughout their preparation program, the teacher candidates relate their developing practice to the Ohio Standards for the Teaching Profession. The Ohio standards cluster in three categories: teaching and learning, conditions for teaching and learning, and professional work.

General Content Requirement:
Natural Sciences (2)
BI 200/201 Environmental Science and Lab
OR
BI 105/106 Intro to Biological Science and Lab
AND
CH 220/221 Earth Science and Lab

Social and Behavioral (4)
PY 201 General Psychology
GO 200 World Geography
HI 110 World Cultures
HI 200 US History

Mathematics (2)
MA 130 Elementary Number Theory
MA 131 Geometry, Probability and Statistics from an Elementary Point of View

Fine Arts (1)
AR 221 Basic Design
OR
AR 280 Art Appreciation: An Experimental Approach
Professional Education Core (11 courses)
ED 202 Introduction to Education
ED 203 Field Experience for Introduction to Education
ED 204 Educational Psychology
ED 205 Psychology of Students with Special Needs
ED 206 Field Experience for ED 205
ED 301 Integrating Technology Across the Curriculum
ED 341 Curriculum Principles PreK-12
ED 342 Integrated Teaching Methods PreK-12
ED 343 Field Experience for ED 342
ED 358 Classroom Management
ED 475 Issues in Education

Throughout their preparation program, the candidates relate their practice to the Ohio Standards for the Teaching Profession. The Ohio standards cluster in three categories: teaching and learning, conditions for teaching and learning, and professional work. Candidates are prepared to create effective learning experiences for a diverse student population. Ohio requires all middle childhood candidates to complete 12 semester hours of reading, including a three-hour course in phonics. The phonics course, along with content area reading, reading across the curriculum, and assessment and correction of reading disabilities, requires the candidates to demonstrate understanding of the interdisciplinary nature of learning and the role reading plays in learning.

Professional Education Core (11 courses)
ED 202 Introduction to Education
ED 203 Field Experience for Introduction to Education
ED 204 Educational Psychology
ED 205 Psychology of Students with Special Needs
ED 206 Field Experience for ED 205
ED 301 Integrating Technology Across the Curriculum
ED 341 Curriculum Principles PreK-12
ED 342 Integrated Teaching Methods PreK-12
ED 343 Field Experience for ED 342
ED 358 Classroom Management
ED 475 Issues in Education

Early Childhood Education Core (8 courses)
ED 221 Role of Phonics in Reading
ED 265 Foundations of Early & Middle Childhood Education
ED 332 Reading Across the Curriculum in ECE & MCE
ED 355 Assessment and Correction of Reading Disabilities
ED 376 Developmental Reading
ED 379 Music, Creative Arts & Physical Movement in ECE
ED 380 Reading Field Experience for ECE & MCE & MMIS
ED 413 Student Teaching in ECE

Advantage Plus: Students earning their initial Pre-K-3 license may add a 4-9 endorsement in ONE of the four concentration areas by completing the content requirements for that concentration area and the successful passage of the appropriate PRAXIS II Test.

LICENSURE FOR MIDDLE CHILDHOOD EDUCATION (MCE) (GR. 4 - 9)
The Notre Dame College Middle Childhood Education (MCE) field-based licensure program prepares undergraduates and post-baccalaureate middle school (MS) teachers with the knowledge, skills, and dispositions required to successfully meet the educational needs of 4-9 students. The State of Ohio has outlined expectations for MS candidates. Candidates are required to select two of the following content areas for a concentration: Language Arts, Mathematics, Science, or Social Studies. Candidates must pass the Praxis II subject assessment in each area of their concentration. They must also pass the Principles of Learning and Teaching Test for grades 5-9 with a qualifying score of 168 or better. Ohio requires that 80% of program completers must pass the Praxis.

Middle Childhood Education Courses (8)
ED 221 The Role of Phonics in Reading
ED 265 Foundations of Early & Middle Childhood Education
ED 332 Reading Across the Curriculum in ECE & MCE
ED 335 Reading in the Content Areas
ED 355 Assessment and Correction of Reading Disabilities
ED 380 Field Experience for Reading in ECE & MCE
ED 412 Student Teaching in MCE

AND one mathematics course:
MA 130 Elementary Number Theory
OR
MA 131 Geometry, Probability and Statistics from an Elementary Point of View
**Content Area Requirements: (Choose two areas)**

**Mathematics (5):**
MA 120, MA 130, MA 131, MA 221 & MA 330

**Reading & Language Arts (7):**
CA 212, CA 250, EN 312, CA 220 OR EN 210 OR EN 318
EN 331 OR EN 332
EN 341 OR EN 342

**Choose one:**
EN 255, EN 256, EN 281, EN 381, EN 382

**Recommended but NOT required:**
EN 314

**Science (5):**
BI 105 & 106 OR 110 & 111 OR 112 & 113;
BI 200 & 201;
CH 100 & 101 OR CH 111 & 113;
CH 220 & 221;
PS 150 & 151

**Social Sciences (6):**
HI 110, HI 200, EC 100, GO 200, PO 111, SO 201

**MIDDLE CHILDHOOD GENERALIST**
(GR. 4 - 6)
For students whose initial licensure is in middle childhood, the generalist license enables the teacher to be the single classroom teacher for grades 4, 5 and 6. The license requires six hours of coursework in each of the two remaining concentration areas (e.g. Math 130 & 131; Biological & Earth Science & Labs; EN 110, CA 100 & EN 332 Language Arts & Reading; HI 110 & 200 Social Studies) and the passage of the early childhood content area PRAXIS II test.

**LICENSURE FOR ADOLESCENT TO YOUNG ADULT EDUCATION (GR. 7 - 12)**
AND MULTI-AGE EDUCATION (PRE-K - 12)
The Notre Dame College Adolescent to Young Adult (AYA) field-based, licensure programs prepare undergraduates and post-baccalaureate candidates for teaching grades 7-12. Candidates acquire the knowledge, skills, and dispositions required to successfully meet the educational needs of 7-12 students. The State of Ohio outlines expectations for AYA candidates. Candidates complete content courses and education courses that prepare them to meet the thematic standards, the disciplinary standards and the pedagogical standards for their particular major. Candidates must pass the Praxis II Content Test for their teaching major. Candidates must pass the PLT Test for grades 7-12 with a qualifying score of 165. Ohio requires 80% of program completers to pass the Praxis.

Throughout their preparation, the candidates relate their practice to the Ohio Standards for the Teaching Profession. The standards cluster in three categories: teaching and learning, conditions for teaching and learning, and professional work. Candidates are prepared to create effective learning experiences for a diverse student population. Ohio requires all AYA teacher candidates to complete 3 semester hours of content reading. The course helps the candidates understand the value of specific reading strategies to use in response to the literacy skills students bring to the AYA classroom. In the reading, curriculum, methods, and management classes, the candidates develop and implement a repertoire of methods and techniques to use in the AYA classroom to teach diverse learners in a myriad of educational contexts.

**General Content Requirement:**

**Social & Behavioral Sciences (2)**
PY 201 General Psychology

**Professional Education Core (8)**
ED 202 Introduction to Education
ED 203 Field Experience for ED 202
ED 204 Educational Psychology
ED 205 Psychology of Students with Special Needs
ED 206 Field Experience for ED 205
ED 301 Integrating Technology Across the Curriculum
ED 358 Classroom Management
ED 475 Issues in Education

**Adolescent to Young Adult Education Core (5 courses)**
ED 335 Reading in the Content Areas
ED 341 Curriculum Principles Pre-K - 12
ED 342 Integrated Methods Pre-K - 12
ED 343 Field Experience for ED 342
ED 421 Student Teaching: Adolescent to Young Adult (AYA)
MAJOR FIELD
Students pursuing Adolescent/Young Adult and Multi-Age licensure must complete a major field of study AND all certification requirements of the teaching field.

Additional content credits needed for Licensure and Major: (Choose one)
Integrated Language Arts (See English)
Life Science (See Biology)
Life Science and Chemistry (See Biology or Chemistry)
Integrated Mathematics (See Mathematics)
Integrated Social Studies (See History/Political Science)
Spanish: Pre-K - 12 (See Modern Languages)
Visual Art: Pre-K - 12 (See Art) AR 360, AR 361

MILD MODERATE INTERVENTION SPECIALIST (MMIS) (K - 12)
Notre Dame College’s Mild Moderate Intervention Specialist (MMIS) License, a field-based program, prepares Special Education teachers with the knowledge, skills, and dispositions required to successfully meet the educational needs of students with mild and moderate disabilities in K-12 inclusion, resource and intervention classrooms. The program is designed to meet the Council for Exceptional Children (CEC) initial accreditation standards, NCATE standards, and requirements for licensure as a Mild Moderate Intervention Specialist in the State of Ohio. Candidates complete 61 credit hours of course work in professional and special education, pass the Principles of Learning and Teaching Test with a qualifying score of 168 and the Praxis II Knowledge Based Core Special Education Principles (#20353). Ohio requires that 80% of program completers pass the Praxis.

Throughout their preparation program, the candidates relate their practice to the Ohio Standards for the Teaching Profession. The Ohio standards cluster in three categories: teaching and learning, conditions for teaching and learning, and professional work. A faculty team works together to create a cohesive learning experience for the candidates that reflects the real world work of the special education intervention specialist and builds on research-based best practice. The teacher candidates focus on the CEC Standards and the Ohio Office of Exceptional Children and Ohio Department of Education (ODE) recommendations for licensure. Notre Dame College’s MMIS program has set the bar high.

General Content Requirements:
Natural Sciences (2)
BI 200/201 Environmental Science and Lab
OR
BI 105/106 Intro to Biological Science and Lab
CH 220/221 Earth Science and Lab

Social and Behavioral (4)
PY 201 General Psychology
GO 200 World Geography
HI 110 World Cultures
HI 200 U.S. History

Mathematics (2)
MA 130 Elementary Number Theory
MA 131 Geometry, Probability and Statistics from an Elementary Point of View

Fine Arts (1)
AR 221 Basic Design
OR
AR 280 Art Appreciation: A Studio Approach

Professional Education Core (9 courses)
ED 202 Introduction to Education
ED 203 Field Experience for ED 202
ED 204 Educational Psychology
ED 205 Psychology of Student with Special Needs
ED 206 Field Experience for ED 205
ED 301 Integrated Technology Across the Curriculum
ED 341 Curriculum Principles Pre-K - 12
ED 342 Integrated Methods Pre-K - 12
ED 475 Issues in Education

MMIS Core (11 courses)
ED 221 The Role of Phonics in Reading
ED 330 Collaborative Teaching
ED 335 Reading in the Content Areas
ED 352 Student Class Management
ED 353 Assessment of Special Needs
ED 354 Instructional Strategies in Mild Moderate
ED 355 Assessment & Correction of Reading Disabilities
ED 357 Field Experience for ED 354
ED 376 Developmental Reading Instruction in ECE
ED 380 Field Experience for Reading Core
ED 414 Student Teaching: MMIS
READING ENDORSEMENT
A Reading Endorsement K-12 may be added to licensure areas.

Reading Endorsement Course Requirements for each Licensure Area (Courses marked with an “*” are required as part of the major):

**ECE PK-3**
- ED 221 The Role of Phonics in Reading*
- ED 325 Foundations of Reading
- ED 332 Reading Across the Curriculum*
- ED 335 Assessment and Correction of Reading Disabilities*
- ED 380 Field Experience for Reading*
- ED 365 Undergraduate Reading Practicum
- ED 376 Developmental Reading*

**MCE (Gr. 4-9)**
- ED 221 The Role of Phonics in Reading*
- ED 325 Foundations of Reading
- ED 332 Reading Across the Curriculum*
- ED 335 Content Area Reading*
- ED 355 Assessment and Correction of Reading Disabilities*
- ED 380 Field Experience for Reading*
- ED 365 Undergraduate Reading Practicum

**AYA/Spanish/Visual Arts**
- ED 221 The Role of Phonics in Reading
- ED 325 Foundations of Reading
- ED 335 Content Area Reading*
- ED 355 Assessment and Correction of Reading Disabilities
- ED 365 Undergraduate Reading Practicum
- ED 380 Field Experience for Reading*

**MMIS**
- ED 221 The Role of Phonics in Reading*
- ED 325 Foundations of Reading
- ED 335 Content Area Reading*
- ED 355 Assessment and Correction of Reading Disabilities*
- ED 380 Field Experience for Reading*
- ED 365 Undergraduate Reading Practicum
- ED 376 Developmental Reading*

TEACHER EDUCATION EVENING LICENSURE PROGRAM (PRE-K 3; 4-9; 7-12; MULTI-AGE)
This program is designed for those students who already hold a baccalaureate degree and wish to pursue a career in teaching. (See special bulletin of information and worksheet about the various licensure program requirements available from the Education Office.)

FIELD-BASED EXPERIENCE
The Professional Education program includes field-based experiences that provide for observation and practice. They are designed to meet the current Ohio Teacher Education and Licensure Standards. Each student completes field-based experiences in diverse settings (cultural, racial and socioeconomic). Placements are made as an integral part of each of the professional education courses taken.

Admission to the Education Division
Degree-seeking Students in education must apply and be accepted to the division before taking 300 and 400 level education courses. To apply, the student must have taken ED 202, 203, 204, 205 and 206, complete an application (available from the Education Office or ED 205 instructor) and have a 2.75 GPA and a 2.75 GPA in education courses.
COURSE OFFERINGS

ED 202 Introduction to Education 3 cr.
Introduction to the historical, sociological, and philosophical foundations of education, including an understanding of the moral, social, and political dimensions of classroom teaching and schools. The focus is on education as a profession. Designed to facilitate career exploration.

ED 203 Field Experience .5 cr.
Field placement component for ED 202. Twenty hours (20) of observation, one-on-one tutoring or other classroom-related activities on three separate visits to classrooms representing the ECE, MCE and AYA licensure areas. Must be taken concurrently with ED 202.

ED 204 Educational Psychology: Learning and Human Abilities 3 cr.
Study of development, learning, and instructional theory and its practical application to effective teaching of diverse populations. Explores the psychological foundations of student variability, behavioral and cognitive learning theories, information processing, motivation theories, practices of grading and the evaluation of student learning. The findings of research and current best practices in the above areas are explored in relation to creating a positive classroom environment for learning. Prerequisite: PY 201 or equivalent.

ED 205 Psychology of Student with Special Needs 3 cr.
Overview of the life-span of students with special learning needs. Focus will be placed on the characteristics in mental, sensory, physical, communicative, social and emotional development which affect learning and adaptive behavior. Discussion of issues related to education, family life, federal and state legislation. Focus will be on the thirteen disabilities in law and how accommodations are made for those students. Prerequisite: PY 201

ED 206 Field Placement Component for ED 205 .5 cr.
Approximately ten (10) hours of observation at an appropriate site as determined by the instructor and/or Field Placement Director. This course provides time to organize and reflect upon the field experience in classrooms with students with learning differences. Must be taken concurrently with ED 205.

ED 221 The Role of Phonics in Reading 3 cr.
An understanding of the nature and the role of word recognition literacy. This course analyzes phonological awareness, phonemic awareness, phonics, structural analysis, and morphemic units in decoding, spelling and their application in reading and writing. Knowing how to assess and intervene in word recognition through informal assessments are also investigated. This course should be the first reading course taken. Prerequisites are ED 202, 203, 204, 205, 206.

ED 265 Foundations of Early and Middle Childhood Education 3 cr.
This initial course includes an overview of the history, philosophy, and goal of teaching students in grades P-9. It emphasizes the study of developmentally-appropriate curriculum organization, the need for integrating the curriculum, and multiple strategies for evaluating and assessing student performance. Prerequisite: ED 202.

ED 291, 292, 293 Special Topics 1-3 cr.

ED 301 Integrating Technology Across the Curriculum 3 cr.
An intermediate course which further develops electronic communications with emphasis on Internet resources, Telnet and email; issues of productivity and interactive technologies; evaluation of software programs. Emphasis is placed on the integration of technology across the P - 12 curriculum. Guidelines for selecting Internet services and pertinent educational sites on the Internet. Additional use of assistive technology for students with special needs. Overview of more advanced troubleshooting such as extension conflicts, upgrades, reinstallation of system software. Prerequisites: IS 220 or placement.
ED 325 Foundations in Reading 3 cr.
A study of theory and teaching methods for best literacy practices as determined by current research in the field of reading. Students will become knowledgeable of education theory and how theory is applied to the classroom focusing on literacy components. Prerequisites: Reading Core Courses.

ED 330 Collaborative Teaming 3 cr.
This course is designed to develop collaborative skills and effective communication practices in working with families of children with disabilities. Specific strategies to more effectively develop collaboration with regular classroom teachers and other school and community personnel will be explored as well as opportunities to practice elements of successful and effective team relationships. The student will demonstrate a working knowledge of the IEP team including the consultative role of professionals in related services. Ten (10) hours of field experience required. Prerequisite: It is recommended that ED 354 be taken before ED 330.

ED 332 Reading Across the Curriculum in ECE and MCE 3 cr.
A study of genres of literature in teaching reading in all areas of the PK-3 and 4-9 curriculum. Includes use of both expository text and content-oriented literature. Strategies and methods of employing literature to enhance learning are explored.

ED 335 Reading in the Content Areas 3 cr.
This course is designed to explore the techniques used in the development of successful student reading of subject matter content. This course studies the components of word study, comprehension, writing, teaching for diverse learners, technology applications, assessment, and collaborative techniques for teaching content area materials. Prerequisites: ED 202, 203, 204, 205, 206.

ED 341 Curriculum Principles P-12 3 cr.
An examination of curriculum principles that impact upon planning instructional activities for students. Emphasis placed on the Backward Design concept. Prerequisites: Completion of ALL other education coursework and 90% of content work. Must be ready to student teach in the one or two semesters following the completion of this course. Formal admission to the Division of Education. ED 341 precedes ED 342.

ED 342 Integrated Teaching Methods P - 12 3 cr.
Effective teaching methodology is introduced that addresses the needs of today’s diverse classroom. Prerequisites: Completion of ALL other education coursework and 95% of content work. Must be ready to student teach in the next semester following the completion of this course. Formal admission to the Division of Education.

ED 343 Field Experience for ED 342 1 cr.
Field placement component for the ED 342 methods class required of education majors/minors, except MMIS majors (MMIS students take ED 354/ED 357). The planning, teaching and reflection of multiple lessons taught at an off-site location determined by the instructor and/or Field Placement Director. Must be taken concurrently with ED 342.

ED 352 Student Class Management – MMIS 3 cr.
Behavior management techniques and methods of positive behavior support are discussed as well as the theories used to develop basic standards of reinforcement for children with disabilities. Individual and classroom management plans are discussed including methods of obtaining baseline data to document observable behavior and to initiate problem solving methods to change inappropriate behavior. Twenty (20) hours of field experience required.

ED 353 Assessment of Special Needs 3 cr.
The student will demonstrate a working knowledge of terminology associated with the assessment of individuals with disabilities including formal and informal measures used to explore a student’s eligibility and referral for special education. Basic methods of referral, screening and placement will be analyzed. Twenty-five (25) hours of field experience required.

ED 354 Instructional Strategies for Mild/Moderate 3 cr.
Instructional strategies and methods of differentiating for the student with mild and moderate disabilities provide both the theoretical and practical aspects of developing an Individual Education Plan for the student with special needs. Included in the course is the use of accommodations, methods for planning and monitoring instruction, choosing and developing materials and integrating technology to ensure that student abilities are acknowledged. (25 hours field, see ED 357)
ED 355 Assessment and Correction of Reading Disabilities 3 cr.
A study of assessment and intervention procedures for classroom diagnosis and remediation of reading. There is an emphasis on methods and materials for the correction of reading problems. Last course in ECE, MCE, MMIS reading core. Should be taken with ED 380.

ED 357 Field Experience for ED 354 1 cr.
Field placement component for the ED 354 course. (Replaces ED 343). The planning, teaching, and reflection of multiple lessons taught in classrooms or resource rooms to students on IEPs. Under the direction of an Intervention Specialist or classroom teacher. Determined by the instructor and/or field placement director. Must be taken concurrently with ED 354.

ED 358 Classroom Management 3 hrs.
A study in the principles and applications of classroom management. This course will cover the reasons why students misbehave and how to effectively respond to common behavioral issues. Practical experiences, case examples and exercises will promote increased skills in defining and assessing the environment, the student, the inappropriate behaviors, and your teaching style/philosophy’s influence on classroom management. Through field experiences in your area of licensure (PK-3, MCE, or AYA-Secondary), you will learn to evaluate intervention strategies and how to design a classroom management plan that makes sense for your students. Content will cover strategies for parent/professional collaboration. The information provided will allow participants to immediately implement strategies across a variety of school, mental health, and human services settings and gain familiarity to social, behavioral, and academic needs of students in your major area. This course has ten hours of field work embedded within the course.

ED 365 Reading Practicum 3 cr.
The last course in the reading endorsement sequence is the practical application of all the required reading courses. Students will apply knowledge of literacy by diagnosis, remediation or enrichment of a student in a field-based tutorial situation. Understanding the varied roles of the reading teacher within the K-12 classroom, school, and community is explored. Research as it applies to literacy through on-line journals, professional development, and writing a reading proposal for workshop presentations comprise essential elements of the course.

ED 376 Developmental Reading Instruction in ECE 3 cr.
A comprehensive approach to the development of reading with a focus on language development, oral communication skills and reading/writing through developmentally, individually and age-appropriate activities for young children. Emphasis on children’s progress in literacy development, appropriate teaching methodologies and the holistic approach throughout literature and content materials for young learners. Prerequisites: ED 202, 203, 204, 205, 206, 221.

ED 379 Music, Creative Arts and Physical Movement Activities in ECE 3 cr.
This course focuses on appreciation for and the integration of art, music and physical movement activities into the classroom learning environment. Students will learn strategies and techniques to meet the needs of students with diverse needs and cultural backgrounds in the context of developmentally appropriate practice. This course has five hours of field work embedded within the course. Prerequisites: ED 204, ED 265.

ED 380 Field Experience for Reading for ECE, MCE & MMIS Licensure 1 cr.
Field placement component for the reading core required for all licenses. Thirty (30) hours of observation/activities at an appropriate site as determined by the instructor and/or field placement director. Study and administering multiple assessments from an informal reading inventory for primary, middle, and high school students. Prerequisites: This is the last of the reading core courses. Should be taken with ED 355.

ED 391, 392, 393, 394 Selected Topics 1-3 cr

ED 412 Student Teaching: Middle Childhood 6, 12 hrs.
Fifteen (15) weeks of student teaching in a chartered school in middle childhood classrooms (4-9) in one or both areas of concentration under the supervision of cooperating teachers and a college supervisor. Prerequisite: Department approval. ALL education coursework and content-area coursework must be completed prior to student teaching. Formal application made one semester prior to student teaching.
ED 413 Student Teaching: Early Childhood 6, 12 hrs.
Fifteen (15) weeks of student teaching in a chartered school in the early childhood classroom (Pre-K-3) under the supervision of a cooperating teacher and a college supervisor. Prerequisite: Department approval. ALL education coursework and content-area coursework must be completed prior to student teaching. Formal application made one semester prior to student teaching.

ED 414 Student Teaching: MMIS 6, 12 hrs.
Fifteen (15) weeks of student teaching in a chartered school in the early childhood classroom (Pre-K-3) under the supervision of a cooperating teacher and a college supervisor. Prerequisite: Department approval. ALL education coursework and content-area coursework must be completed prior to student teaching. Formal application made one semester prior to student teaching.

ED 421 Student Teaching: Adolescent to Young Adult (AYA) 12 hrs.
Fifteen (15) weeks of student teaching in a chartered school in adolescent/young adult classrooms (7-12) under the supervision of a cooperating teacher and a college supervisor. Prerequisite: Department approval. ALL education coursework and content-area coursework must be completed prior to student teaching. Note: Multi-age teaching can be done at either the early, middle or secondary levels. Formal application made one semester prior to student teaching.

ED 475 Issues in Education 3 cr.
An integrative seminar which focuses on an understanding of current issues affecting education and educational practices in the United States, and the role of the professional educator in responding to these issues. Students are required to complete and submit an electronic portfolio prior to the completion of this course. Formal admission to the Division of Education and senior status required. Must be taken immediately before student teaching.

ED 491, 492, 493, 494 Special Projects 1-3 cr.

**ENGLISH**

**Program Goals:**
Graduates of the English program are prepared for employment and/or graduate studies with skills in reading, problem solving, critical thinking, effective writing and ethical decision making. In addition, they are engaged with and enjoy literature and the performing arts.

English majors are ready to apply to master’s programs in literary or composition studies, or to law school. They are also ready to enter wide variety of careers including writing, developing fields of journalism (print, broadcast and electronic), advertising, sales and marketing, human resources, and non-profits.

An English major who also earns Licensure in Integrated Language Arts is ready to teach literature and writing in grades 7-12, as well as classes and extracurricular activities in speech, drama, media and journalism. Some English/ILA majors earn master’s degrees in English literature or composition studies, and others earn advanced degrees in Education.

**ENGLISH MAJOR**

**49-51 Credits**

**Requirements:**

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<th>Course</th>
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<tr>
<td>CA 112</td>
<td>Oral Interpretation</td>
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<td>EN 210</td>
<td>Critical Writing</td>
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<td>EN 312</td>
<td>History of the English Language</td>
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<td>EN 314</td>
<td>Grammar for Writers and Teachers</td>
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<td>EN 321</td>
<td>Introduction to Literary Theory and Criticism</td>
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<td>EN 331</td>
<td>British Literature to 1700</td>
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<td>EN 332</td>
<td>British Literature 1700-1900</td>
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<td>EN 341</td>
<td>American Literature to 1900</td>
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<td>EN 342</td>
<td>Seminar in American Literature</td>
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<td>EN 395</td>
<td>Cooperative Education (1-3 cr.)</td>
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<td>EN 462</td>
<td>Shakespeare’s Histories and Tragedies</td>
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<td>EN 480</td>
<td>Great Books Seminar</td>
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<tr>
<td>EN 482</td>
<td>English Studies</td>
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<td></td>
<td>(Not needed for the Integrated Language Arts Licensure)</td>
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<tr>
<td>EN 220</td>
<td>Newswriting</td>
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<td>EN 318</td>
<td>Creative Writing</td>
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<td>Advanced Media Writing</td>
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One of the following:
EN 343 Major African American Writers
EN 459 Postcolonial Literature
EN 460 Literature of Continental Europe
EN 382 Women Writers

One of the following:
CA 305 Film Studies
CA 309 Acting & Directing
CA 313 Event/Play Production

ENGLISH MINOR
24 Credits
Requirements:
CA 112 Oral Interpretation
EN 462 Shakespeare’s Histories and Tragedies
EN 480 Great Books Seminar

One of the following:
EN 210 Critical Writing
EN 220 Newswriting
EN 318 Creative Writing

One of the following:
EN 255 Introduction to Western Literature: Epics and Poetry
EN 256 Introduction to Western Literature: Prose
EN 261 The Drama and Theater
EN 262 Modern Drama and Theater
EN 281 The Short Story

Three courses in British, American, or world literature.

WRITING MINOR
21 Credits
Requirements for all Emphases (12 Credits):
EN 210 Critical Writing
EN 220 Newswriting
EN 318 Creative Writing
EN 482 English Studies

Drama/Screenwriting Emphasis:
Add three of the following (9 credits):
EN 261 The Drama and Theater
EN 262 Modern Drama and Theater
CA 305 Film Studies
EN 381 Women Playwrights
EN 461 Shakespeare’s Comedies
EN 462 Shakespeare’s Histories and Tragedies

Poetry Emphasis:
Add three of the following (9 credits):
EN 255 Introduction to Western Literature: Epics and Poetry
EN 332 British Literature 1700-1900
EN 342 Seminar in American Literature
EN 370 20th Century British and American Poetry

Fiction Emphasis:
Add three of the following (9 credits):
EN 256 Introduction to Western Literature: Prose
EN 281 Short Story
EN 342 Seminar in American Literature
EN 369 British and American Novels since 1800

ADOLESCENT TO YOUNG ADULT LICENSE (GR. 7-12) IN INTEGRATED LANGUAGE ARTS
Students preparing for Adolescent to Young Adult licensure in Integrated Language Arts complete the requirements of an English major with two exceptions: EN 482 and the credits in cooperative education are not required.

See EDUCATION for Professional Education Requirements.

AREA OF CONCENTRATION IN READING AND LANGUAGE ARTS FOR MIDDLE CHILDHOOD LICENSE (GR. 4-9)
24 Credits
Requirements:
CA 112 Oral Interpretation
CA 250 Mass Communication
EN 312 History of the English Language
EN 314 Grammar for Writers and Teachers

One of the following:
CA 220 Newswriting
EN 210 Critical Writing
EN 318 Creative Writing

One of the following:
EN 331 British Literature to 1700
EN 332 British Literature 1700-1900

One of the following:
EN 341 Main Currents in American Literature to 1900
EN 342 Seminar in American Literature
**ENGLISH MAJOR WITH A PRE-LAW EMPHASIS**

Students interested in preparing for law school are wise to choose a rigorous English major which will help develop exceptional strength in critical reading and writing, logical reasoning, analytical thought, and moral responsibility to oneself and others. Because there is no specific pre-law major, the student must establish regular communication with an advisor as soon as possible to ensure the best possible preparation through course work, co-operative education, advising, and pre-professional testing.

**COURSE OFFERINGS**

* A college level composition course is a prerequisite to all other English courses.

**EN 100/101 College Composition I and II 3 + 3 cr.**
An intensive treatment of fundamental forms of composition, principles of grammar, sentence structure, followed by the preparation of a research paper. This is a two-semester course. To fulfill the General Education Requirement for Written Communication, the student must complete both semesters of the course.

**EN 108 English as a Second Language 3 cr.**
A college-level course in English for international students which focuses on developing skills in listening, speaking, and writing needed for success in college. International students take this course, followed by EN 110, to complete the General Education Requirement for Written Communication.

**EN 110 Advanced Composition: Expository Writing 3 cr.**
Extensive work in expository writing, some treatment of grammar and style, and the completion of an acceptable research paper in MLA format. This course fulfills the General Education Requirement for Written Composition.

**EN 152, 252, 352, 452 Study Tours 1-6 cr.**

**EN 171, 271, 371, 471 Workshops 1-3 cr.**

**EN 191, 192, 193, 194 Selected Topics 1-3 cr.**

**EN 207 Writing Practicum 3 cr.**
Extended instruction and practice in grammar and expository writing, intended for students who have earned credits in composition but who need additional training and skill development.

**EN 210 Critical Writing 3 cr.**
Expository, analytic, and critical writing based on reading in major literary genres. Required for English majors.*

**EN 220 Newswriting 3 cr.**
Introductory journalism course teaching basic skills in writing news for print, broadcast and web. Students learn to write clearly, concisely and accurately under deadline and will submit articles to the student newspaper, *Notre Dame News.*

**EN 255 Introduction to Western Literature: Epics and Poetry 3 cr.**
A study of representative epics and poems with an emphasis on their relevance to the development of Western civilization.*

**EN 256 Introduction to Western Literature: Prose 3 cr.**
A course focusing on selected prose works, including selections from a variety of literary periods and genres.*

**EN 261 The Drama and Theater 3 cr.**
Also listed as TR 261.
Study of dramatic literature, acting, stage design, production, and theatrical styles and trends from the classical age of Greece to the middle of the nineteenth century. Recommended preparation for EN 262.*

**EN 262 Modern Drama and Theater 3 cr.**
Also listed as TR 262.
Study of dramatic literature, acting, stage design, production, and theatrical styles and trends from Ibsen to the present. Recommended preparation: EN 261.*

**EN 281 The Short Story 3 cr.**
Analysis and discussion of selected short stories by authors from different cultures and countries.*
EN 283 Ohio Writers 3 cr.
Reading, analysis, and writing about selected fiction, poetry and/or drama by authors with strong Ohio connections. Texts may include works by fiction writers such as Toni Morrison, Sherwood Anderson, Charles W. Chesnutt, or Les Roberts; and poets such as Mary Oliver, James Wright, Rita Dove, and Langston Hughes.*

EN 295, 395, 495 Cooperative Education 1-6 cr.

EN 312 History of the English Language 3 cr.
An introduction to the origins, history, and structure of the English language. Study of the function of language in society. Required for English majors and those preparing for AYA and Middle Childhood licensure, and recommended for English minors.*

EN 314 Grammar for Writers and Teachers 3 cr.
A systematic study of traditional grammar with applications to writing, revising and editing, literary analysis, and teaching English language arts. Required for English majors and those preparing for AYA licensure, and recommended for English minors and those preparing for Middle Childhood licensure in Language Arts.*

EN 318 Creative Writing 3 cr.
Develops skill in imaginative writing: poetry, fiction and/or non-fiction.*

EN 321 Introduction to Literary Theory and Criticism 3 cr.
An introduction to critical methodology and issues in literary criticism and contemporary theory, using both theoretical and literary texts. Prerequisite: EN 210.*

EN 323 Media Writing 3 cr.
Also listed as CA 323.
Offers instruction and practice in professional writing skills needed for careers in advertising, public relations, radio, and television. Prerequisite: EN 220.

EN 324 Advanced Media Writing 3 cr.
Also listed as CA 324.
An advanced professional writing course, providing intensive practice in writing blogs, commentaries, and features for publication in print and web. Prerequisite: CA/EN 220 or Department permission.

EN 331 British Literature to 1700 3 cr.
A chronological survey of British literature and its historical and social background from the earliest times to 1700, with readings from the highlights of major works.*

EN 332 British Literature 1700-1900 3 cr.
A chronological survey of British literature and its historical and social background during the 18th and 19th centuries. Readings include samples of major works of the period.*

EN 341 Main Currents in American Literature to 1900 3 cr.
A historical survey of American literature from its Native American and colonial beginnings to the end of the nineteenth century, with emphasis on themes, images, stylistic techniques, and cultural assumptions in the works of major literary figures.*

EN 342 Seminar in American Literature 3 cr.
A concentration on 20th century American literature, with emphasis on the relationship between literature and its cultural and intellectual contexts.*

EN 343 Major African-American Writers 3 cr.
Analysis and discussion of selected works of major African-American authors.*

EN 369 British and American Novels since 1800 3 cr.
Reading and discussion of significant British and American novels.*

EN 370 20th Century British and American Poetry 3 cr.
Poetry, theory, and techniques of modern poets such as Hopkins, Yeats, Eliot, Pound, Frost, Brooks, Plath, Heaney, Collins.

EN 381 Women Playwrights 3 cr.
Analysis and discussion of the works of selected women playwrights of the twentieth century.*

EN 382 Women Writers 3 cr.
Analysis and discussion of works of selected women writers with emphasis on exploration of vital issues from women’s perspectives.*

EN 391, 392, 393, 394 Selected Topics 1-3 cr.

EN 459 Postcolonial Literature 3 cr.
Reading and analysis of literature reflecting the hybridity of cultures in nations which were once part of European empires. Some introductory study of postcolonial theory. Junior-senior standing required, or departmental permission.*
EN 460 Literature of Continental Europe 3 cr.
Study of the structures and themes in the principal works of representative European writers. Junior-senior standing required, or departmental permission.*

EN 461 Shakespeare’s Comedies 3 cr.
Also listed as TR 461.
Reading and analysis of Shakespeare’s comedies; study of comedy techniques and poetic development. Junior-senior standing required, or departmental permission.*

EN 462 Shakespeare’s Histories and Tragedies 3 cr.
Also listed as TR 462.
Reading and analysis of Shakespeare’s histories and tragedies; study of Shakespeare’s development as tragic dramatist and poet. Junior-senior standing required, or departmental permission.*

EN 480 Great Books Seminar 3 cr.
The reading and discussion of selected texts, important for their literary genres and their impact on the history of ideas. An examination of the themes and values of western civilization. Junior-senior standing required.*

EN 482 English Studies 3 cr.
Analysis and synthesis of the practice of English studies, including canon formation, research, methodologies, pedagogy, and issues concerning graduate study and other professional options. Work will include in-depth analysis of great works of literature and refining of portfolios and resumes. Normally, senior standing is required.*

EN 491, 492, 493, 494 Independent Study 1-3 cr.
An opportunity for junior and senior level students in good academic standing and possessing the necessary skills to pursue a research topic or to develop a project. Closely directed by a faculty member.

ENVIRONMENTAL SCIENCE

Students in the environmental science program will gain a broad perspective in the physical and life sciences as related to environmental applications and issues. Coupled with an appropriate minor, graduates of this interdisciplinary program will be prepared for careers in environmental areas such as education, ecology, conservation, consulting, monitoring, communication, illustration, and health sciences.

The Bachelor of Arts Degree in Environmental Science is designed for students who plan to seek employment in an environmentally related vocation immediately upon graduation. It is not intended to prepare the student for further graduate studies in the life or physical sciences or as preparation for medical, dental, or veterinary programs.

ENVIRONMENTAL SCIENCE MAJOR
62 Credits
Requirements:
CH 111, 113, 114, 115 College Chemistry & Lab
CH 211, 213 Organic Chemistry I & Lab
CH 220, 221 Earth Science & Lab
CH 308 Environmental Chemistry
CH 310, 311 Quantitative Analysis and Lab
CH 432 Coordinating Seminar
CH 295 or BI 295 Cooperative Education
BI 110, 111, 112, 113 General Biology & Lab
BI 200, 201 Environmental Science & Lab
BI 260, 261 Ecology & Lab
BI 360, 361 Microbiology & Lab
BI 322 Animal Behavior
EN 220 Newsriting
MA 221 Statistics I
MA 300 Statistics II
PH 380 Bioethics*

* Fulfills GER in Philosophy

Recommended Electives:
PY 201 General Psychology**
EC 100 Economics and Contemporary Issues**
EN 324 Writing for Publication
IS 260 Microcomputer Applications in Business

** Either course fulfills GER in Social Sciences
Students are strongly encouraged to select a minor or a second major that would enhance their studies and job opportunities. Some possible minors include the following:

<table>
<thead>
<tr>
<th>Minor</th>
<th>Required Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology</td>
<td>24 (8 additional)</td>
</tr>
<tr>
<td>Business Administration</td>
<td>28</td>
</tr>
<tr>
<td>Chemistry</td>
<td>28 (9 additional)</td>
</tr>
<tr>
<td>Communications</td>
<td>21</td>
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<tr>
<td>Graphic Communications</td>
<td>21</td>
</tr>
<tr>
<td>Economics</td>
<td>18</td>
</tr>
<tr>
<td>English</td>
<td>24</td>
</tr>
<tr>
<td>Information Systems</td>
<td>18</td>
</tr>
<tr>
<td>Management</td>
<td>18</td>
</tr>
<tr>
<td>Marketing</td>
<td>18</td>
</tr>
<tr>
<td>Mathematics</td>
<td>20</td>
</tr>
<tr>
<td>Multimedia</td>
<td>18</td>
</tr>
<tr>
<td>Writing</td>
<td>15</td>
</tr>
</tbody>
</table>

Consult the catalog listing in the appropriate discipline for specific requirements.

**COURSE OFFERINGS**

Required courses for the Bachelor of Arts Degree in Environmental Science are offered primarily through the biology and chemistry departments. Consult the catalog listing in the appropriate discipline for a description of course offerings.

**HEALTH EDUCATION/PHYSICAL EDUCATION**

The ultimate goal of health education is to enable individuals to use knowledge in ways that promote positive behavioral change; therefore, the mission of the department is to empower students to make healthful choices in all dimensions of their lives. Students are encouraged to explore health-related problems confronting contemporary society so as to enable them to make effective decisions concerning their own health and that of their family and community.

General education requirements include a personal health and wellness course for all entering students. Additional opportunities exist for a more in-depth study of health-related fitness and wellness.

**Program Goals:**

Students who have completed coursework will be able to:

1. Define, understand and value health and wellness as the dynamic interaction of the following dimensions: physical, emotional, social, spiritual, occupational and environmental.
2. Demonstrate knowledge of health concepts and skills in all six dimensions.
3. Value and integrate new behaviors that will promote lifelong health and wellness.
4. Develop skills to critically evaluate and analyze health information with regard to its potential benefit to self and society.

**MINOR IN HEALTH EDUCATION**

**22-25 Credits**

This is an excellent minor for individuals interested in positively influencing the health behavior of individuals and communities in the public or private sector. Students completing a minor in health education will demonstrate evidence of achieving the program goals stated above.

**Requirements:**

- BI 230, 231 Anatomy and Physiology
- HP 110 Wellness for College Life
- OR
- HP 112 Lifetime Wellness
- HP 213 Stress Management
- HP 215 Nutrition for Sport, Fitness, Health
- HP 310 Health Psychology
- HP 315 Understanding Sexuality
- HP 321 Applied Exercise Physiology
Recommened Electives:
HP 153 Care and Prevention of Athletic Injuries
PY 254 Adolescent Psychology
PY 351 Psychology of Adult Development
SO 425 Conflict Management

MINOR IN COACHING
18-21 Credits
An excellent minor for education majors and anyone interested in coaching in a school or recreational setting. Upon completing the minor students will be able to demonstrate the skills and abilities needed to coach a variety of sports. This minor includes CPR and a First Aid Certificate as required by the State of Ohio for School Athletic Coaches.

Requirements:
HP 153 Care and Prevention of Athletic Injuries
HP 215 Nutrition for Sport, Fitness, and Health
HP 230 Skills for Coaching Team and Individual Sports
HP 400 Practicum in Coaching
PY/HP 388 Psychology and Ethics of Coaching
BU 462 Legal Issues in Sports

Recommended Electives:
BI 230, 231 Basic Anatomy and Physiology and Lab
HP 107 Water Safety Instruction
HP 213 Stress Recognition and Management
CA 201 Interpersonal Communication
SO 420 Conflict Management and Resolution

MAJOR IN SPORT MANAGEMENT
68-69 Credits
For information on this major, please refer to the Business Administration section of this catalog.

COURSE OFFERINGS
HP 107 Water Safety Instruction 2 cr.
This course prepares and certifies individuals in American Red Cross and Water Safety. Content includes primary and advanced swimming skills, stroke refinement and proficiency, basic and emergency water safety skills.

HP 112 Lifetime Wellness 3 cr.
A holistic approach to fitness and wellness which emphasizes topics of interest to adult women and men with life experience. Content integrates our physical, psychological, social, and spiritual selves.

HP 115 Exercise and Conditioning 1 cr.
Designed to increase cardiovascular efficiency, flexibility, strength, and endurance through an individually planned exercise program.

HP 153 Care and Prevention of Athletic Injuries 3 cr.
Methods of preventing common athletic injuries, sport-specific conditioning techniques, First Aid, CPR, Safety Education, and discussion of blood borne pathogens. American Red Cross and Ohio Certification granted if all criteria are met.

HP 191, 192, 193, 194 Selected Topics 1-3 cr.

HP 213 Stress Recognition and Management 3 cr.
The stress response and its effects on body organs and systems, consequences of unmanaged stress for personal health and relationships. Examination of a holistic perspective on internal and external stressors. Techniques for identifying and effectively managing lifestyle stressors.

HP 215 Nutrition for Sport, Fitness, and Health 3 cr.
Basic principles of nutrition, stressing components necessary for the maintenance of good health, optimal athletic performance, and disease prevention. Prerequisite: HP 110 or 112.

HP 216 Nutrition in Health & Disease 3 cr.
Provides health care students with the theory and practical application for nutritional intervention to prevent disease, promote health and manage health alterations. Prerequisites: BI 206/207 or BI 300/301 or BI 302/303.

HP 230 Coaching Team and Individual Sports 3 cr.
Development of a foundation of coaching techniques, strategies, and organizational skills for coaching.

HP 291, 292, 293, 294 Selected Topics 1-3 cr.

HP 315 Understanding Sexuality 3 cr.
A holistic health and psychosocial perspective on understanding sexuality as a composite of one’s total being. Topics include physiology and health of the reproductive system; sexual behavior, components of sexual choice; gender issues, sexuality and the life cycle. This course can be chosen as an elective for the Women’s Studies Minor.
HP 321 Applied Exercise Physiology  3 cr
The study of systemic adaptations that occur during training, conditioning, and sports competition; techniques for measurement and assessment of physiologic capacities; discussion of physical and psychological aids to performance. Prerequisites: HP 110/112 and BI 230/231.

HP 330 Health Psychology  3 cr.
The contributions of the discipline of psychology to the promotion and maintenance of health related issues. Topics include the biopsychosocial view of health, pain management, stress management, and the relationship between lifestyle choices and optimal physical and psychological health. Prerequisite: PY 201

HP 350 Applied Kinesiology  3 cr.
Study of the scientific basis of human movement. Structure and analysis of muscular-skeletal systems and dynamics of movement. Application to individual fitness programs, lifetime physical activity, and coaching. Prerequisite: BI 230/231

HP 388 Psychology and Ethics of Coaching  3cr.
An exploration of the psychology and philosophy of the coaching experience and the player/coach relationship. Topics include: team and player motivation and leadership, communication, goal setting and performance evaluation. Ethical considerations in coaching.

HEALTH SCIENCES

ASSOCIATE OF SCIENCE IN HEALTH SCIENCES AND A DIPLOMA IN NURSING
98 Credits
This is a joint program between Notre Dame College and Huron School of Nursing.

MISSION STATEMENT CLEVELAND CLINIC
The mission of Cleveland Clinic is to provide compassionate healthcare of the highest quality in a setting of education and research.

MISSION STATEMENT
HURON SCHOOL OF NURSING
The mission of Huron School of Nursing is to educate individuals to assume the role of entry level nurse generalist prepared to function in a variety of health care settings. Our goal is to provide competent, caring nurses to meet the nursing service needs of Cleveland Clinic hospitals and family health centers and the community at large.

SCHOOL PHILOSOPHY
The faculty of Huron School of Nursing believes that:

Nursing is a profession and a discipline which focuses on assisting the person, as a member of a family and community, in achieving fulfillment of physiological and psychosocial needs. Nursing is both an art and a science. The practice of nursing utilizes and integrates knowledge from the arts and humanities, as well as from the physical and behavioral sciences, medicine, and technology into nursing practice. Nurses synthesize and apply knowledge to achieve core practice competencies in communication, professional behaviors, nursing process, integration of knowledge, management of care, health promotion and teaching, critical thinking and human caring and relationships.

The nurse uses the nursing process in collaboration with the client and health team members. This problem solving process enables the nurse and client to share in the development, implementation and evaluation of a plan of care designed to assist the client to achieve the level of health possible within the client’s developmental and/or functional state and environment. The nurse assists clients to achieve their health potential through activities of health promotion, maintenance and restoration. Integral to the nursing process is the
establishment of the nurse-client relationship and the demonstration of caring by the nurse. The nurse uses an understanding of the person's culture and perception of the world to individualize care.

Each person is a holistic, complex being with interdependent physiological and psychosocial needs. A person's functioning within the environment of family and community is dependent upon the degree of attainment of these needs. Each person has rights to dignity, respect, the fulfillment of human needs, and self-determination of his/her own health care choices.

Health is a dynamic state of being defined by the individual. Health status is influenced by access to care, genetics, environment and personal behaviors. The environment, which encompasses the world around and within the person, is constantly changing and can positively or negatively affect individual and community health.

Nursing education is a purposeful, organized and ongoing process designed to assist the student in achieving the competency outcomes essential for contemporary nursing practice. Nursing education is a lifelong process and the curriculum is designed to promote educational mobility. The curriculum is developed, implemented and designed by the nursing faculty. The nurse educator assists the student in the use of the nursing process and the application of theory to nursing practice, and promotes self-direction of the learner toward achieving independence. Faculty have the responsibility to involve the student in the learning process and to actively assess and evaluate student achievement. The relationship between students and faculty is a partnership characterized by mutual respect, support and a spirit of inquiry.

Curricular outcomes are achieved through active engagement in the learning process and a commitment to the intellectual rigor required for synthesis and application of nursing knowledge. Students demonstrate engagement in the learning process through a variety of cognitive and behavioral strategies including concentrating and thinking about the science of nursing, discovering analogies between and among nursing concepts, actively participating in learning activities, performing at one’s personal best while fulfilling program requirements and demonstrating a spirit of inquiry through dialogue with faculty and peers. Students utilize the processes of reflection and introspective thinking to promote learning and the development of critical thinking. The student is responsible for ongoing and progressive achievement of competent nursing practice and assumes accountability for the development of professional self-image and behavior.

Huron School of Nursing educates competent and caring professional nurses prepared to begin practice in a variety of settings. Care is provided to individuals, families and groups of clients with identified health needs. Through achievement of program outcomes, graduates are prepared with the necessary knowledge, skills, attitudes and judgment to function in a complex, changing health care system. The graduate assumes the roles of caregiver, teacher, counselor, client advocate, coordinator of care and member of the profession. The graduate functions collaboratively within a multidisciplinary health care team, and practices according to established standards of care and within an ethical and legal framework. The graduate applies research findings to enhance his/her practice. Graduates are accountable and responsible for initial competence as nurses and for their on-going development of professional competency.

ORGANIZING FRAMEWORK
The organizing framework for the curriculum in the School of Nursing is derived from outcomes theory. Utilizing competencies defined by the National League for Nursing, the Pew Commission and Lenburg’s COPA model (2001), the faculty have identified eight core concepts that define the registered nurse’s professional practice. These core concepts are: communication, professional behaviors, health promotion and education, nursing process, human caring and relationships, integration of knowledge, management of care and critical thinking. These eight core concepts are operationalized to form the semester and program outcomes. Acquisition of knowledge is organized from the perspective of human response to illness according to body systems and along nursing specialty areas. Progression in complexity across the four semesters of nursing study can be seen from basic to advanced concepts as well as in the various settings utilized for concurrent clinical experiences.

Students demonstrate achievement of outcomes through successful performance on key assessment measures throughout the curriculum. In addition to demonstrating the competencies/skills which define each outcome, students are required to develop and maintain an academic portfolio which demonstrates growth, outcomes achievement and proficiency of select nursing skills.
# CURRICULUM PLAN FOR COOPERATIVE PROGRAM AGREEMENT WITH NOTRE DAME COLLEGE

<table>
<thead>
<tr>
<th>Course Number/Title</th>
<th>Semester Credits</th>
<th>Clock Hours</th>
<th>Theory</th>
<th>Clinical/Lab</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
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<td></td>
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<tr>
<td>BI 204/205 Anatomy &amp; Physiology I/Lab</td>
<td>4</td>
<td>45</td>
<td>45</td>
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<tr>
<td>CH 106/107 Principles of Inorganic Chemistry</td>
<td>4</td>
<td>45</td>
<td>45</td>
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<tr>
<td>MA 110 Intermediate Algebra</td>
<td>3</td>
<td>45</td>
<td></td>
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<tr>
<td>PY 201 General Psychology</td>
<td>3</td>
<td>45</td>
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<tr>
<td>EN 100 or EN 110 English Composition</td>
<td>3</td>
<td>45</td>
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<tr>
<td><strong>Second Semester</strong></td>
<td></td>
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<tr>
<td>BI 206/207 Anatomy &amp; Physiology II/Lab</td>
<td>4</td>
<td>45</td>
<td>45</td>
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<tr>
<td>HP 215 Nutrition for Sport, Fitness &amp; Health</td>
<td>3</td>
<td>45</td>
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<td>CA 100 Elements of Speech</td>
<td>3</td>
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<tr>
<td>SO 201 Introduction to Sociology</td>
<td>3</td>
<td>45</td>
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<tr>
<td>EN 101 English Composition</td>
<td>3</td>
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<tr>
<td>(for those taking EN 100)</td>
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<tr>
<td><strong>Third Semester:</strong></td>
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<tr>
<td>BI 240/241 Microbiology/Lab</td>
<td>4</td>
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<tr>
<td>English Literature Elective</td>
<td>3</td>
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<tr>
<td>N1000 Pharmacology in Nursing Practice</td>
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<tr>
<td>N1010 Health Assessment</td>
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<tr>
<td>N1020 Fundamentals of Nursing</td>
<td>6</td>
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<td><strong>Fourth Semester</strong></td>
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<tr>
<td>PY 251 Lifespan Development</td>
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<td>N2010 Medical-Surgical Nursing I</td>
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<td>90</td>
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<tr>
<td>N2020 Psychosocial Nursing</td>
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<td><strong>Fifth Semester</strong></td>
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<tr>
<td>PH 380 Bioethics</td>
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<td>N3010 Medical Surgical Nursing II</td>
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<td>45</td>
<td>90</td>
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<tr>
<td>N3020 Maternal-Child Nursing</td>
<td>4</td>
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<td><strong>Sixth Semester</strong></td>
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<tr>
<td>Theology Elective</td>
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<tr>
<td>N4010 Advanced Concepts in Med-Surg Nursing</td>
<td>5</td>
<td>45</td>
<td>90</td>
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<tr>
<td>N4020 Nursing Leadership</td>
<td>4</td>
<td>30</td>
<td>90</td>
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<tr>
<td><strong>Electives</strong></td>
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<td></td>
<td></td>
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<tr>
<td>N3000 Peri-Operative Nursing</td>
<td>3</td>
<td>30</td>
<td>45</td>
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<tr>
<td><strong>Totals (excluding N3000 elective)</strong></td>
<td>85</td>
<td>975</td>
<td>900</td>
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<tr>
<td><strong>Total for Nursing courses only</strong></td>
<td>36</td>
<td>300</td>
<td>720</td>
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</table>

All nursing courses are completed at Huron School of Nursing. Credits for nursing courses may not transfer to institutions of higher learning.
Program Outcomes

Upon completion of the program, the graduate:
1. Integrates strategies, principles and modes of communication in a self-directed manner
2. Demonstrates professional behaviors, a commitment to the profession and an awareness of responsibility for community involvement.
3. Integrates the nursing process to comprehensively address needs of clients and groups of clients throughout the life span and in various settings.
4. Integrates knowledge from the sciences, technology, the arts and humanities into nursing practice.
5. Manages care of clients and groups of clients through effective and efficient use of resources.
6. Advances the health of clients, families and self through health promotion activities
7. Integrates critical thinking into the clinical decision making process
8. Demonstrates caring and culturally sensitive behaviors that create an environment of dignity and respect for clients, families, self and others.

Semester Outcomes

Upon completion of the first semester, the student:
1. Applies an understanding of the principles of communication in interactions with clients, family, staff, faculty and others.
2. Incorporates professional nursing behaviors in interactions with clients, family, staff, faculty and peers.
3. Uses the nursing process to meet basic health related client needs.
4. Utilizes principles from the sciences, technology, arts and humanities to formulate nursing practice.
5. Demonstrates accountability in the organization and delivery of safe care to individual clients and in providing continuity of care through cooperation with health team members.
6. Assesses client, family and own knowledge, learning needs and style to determine needed health education.
7. Develops an awareness of the critical thinking process and its relevance to nursing practice.
8. Demonstrates caring and respect for self and others.

Upon completion of the second semester, the student:
1. Utilizes constructive communication techniques in interactions with clients, families, staff, faculty and others.
2. Develops a professional nursing identity
3. Uses the nursing process in collaboration with the client and health care team to achieve optimal level of health.
4. Recognizes the relationship between knowledge of the sciences, technology, arts and humanities to client status and care needs.
5. Demonstrates ability to prioritize and delegate care according to standards of practice.
6. Demonstrates understanding of principles of teaching and learning to assist clients, families and self in health education and health promotion behaviors.
7. Demonstrates behaviors reflective of critical thinking.
8. Demonstrates caring and culturally sensitive behaviors within interactions with clients and others.

Upon completion of the third semester, the student:
1. Applies effective communication techniques within the increasing complexity of interactions with clients, families, staff, faculty and others.
2. Demonstrates active involvement in one’s own professional growth
3. Uses the nursing process to provide care that assists the client to achieve the level of health possible within client’s developmental and/or functional state and environment.
4. Incorporates knowledge from the sciences, technology, arts and humanities into nursing care.
5. Collaborates with the health care team to provide care to groups of clients and assist clients and families to access health care resources.
6. Applies principles of teaching and learning to effect health education and behavioral change in clients, families and self.
7. Incorporates critical thinking into the planning and delivery of nursing care
8. Demonstrates sensitivity to differences and awareness of the impact of caring behaviors upon outcomes of care received by clients, families and others.

Program and Semester Competencies

Faculty have identified knowledge, behavior and skills students demonstrate when semester and program outcomes have been achieved. For each semester, knowledge, skills and/or behaviors (i.e. competencies) have been identified that describe how the student demonstrates achievement of semester and program outcomes. These behaviors, skills and knowledge can be traced to the courses via course outcome statements, clinical evaluations tools and student portfolio activities.
COURSE OFFERINGS AT THE HURON SCHOOL OF NURSING

NR 111/N 1000 Pharmacology in Nursing Practice 1 cr.
1 classroom hour per week.
This course provides an overview of the nurse’s responsibility in safe medication administration. Emphasis is on principles of pharmacotherapeutics through study of major drug classifications. Students will demonstrate skill in mathematics required in clinical practice. Prerequisites: CH 106/107, BI 204/205, BI 206/207, PY 201, EN 100/101 or EN 110, MA 110 or higher.

NR 112/N 1010 Health Assessment 2 cr.
1 classroom hour and 3 lab hours per week.
This course introduces students to the principles and skills required to obtain the health history and perform a focused and comprehensive physical assessment of the adult. Students develop and apply skills through practice on an adult lab partner. Emphasis is placed on the acquisition of medical terminology necessary to accurately communicate findings. Prerequisites: CH 106/107, BI 204/205, BI 206/207, PY 201, EN 100/101 or EN 110, MA 110 or higher. Corequisites: NR 113/N 1020.

NR 113/N 1020 Fundamentals of Nursing 6 cr.
3 classroom hours and 9 lab/clinical hours per week.
This course introduces the student to eight core competencies defining nursing practice: communication, professional behaviors, nursing process, integration of knowledge, management of care, health promotion and teaching, critical thinking, and human caring and relationships. The student begins to develop patterns of thinking which guide nursing care. Emphasis is placed on the development of skills necessary to meet basic care needs of adults and older adults. Concurrent clinical experience is offered in the nursing skills lab (three hours per week) and sub-acute care and long term care settings (six hours per week). Prerequisites: CH 106/107, BI 204/205, BI 206/207, PY 201, EN 100/101 or EN 110, MA 110 or higher. Corequisite: NR 112/N 1010.

NR 121/N 2010 Medical-Surgical Nursing I 5 cr.
6 classroom hours and 12 lab/clinical hours per week for 7.5 weeks
This course focuses on implementation of the nursing process in diverse adult populations. Emphasis is placed on concepts of care for medical-surgical clients with health alterations involving the cardiovascular, respiratory, gastrointestinal, musculoskeletal, and reproductive systems as well as select endocrine alterations. Students begin to develop skills necessary to promote critical thinking and demonstrate constructive communications and professionalism. Concurrent clinical experience is offered in acute in-patient settings and/or community settings. Prerequisites: NR 111/N 1000, NR 112/N 1010, NR 113/N 1020.

NR 122/N 2020 Psychosocial Nursing 4 cr.
4 classroom hours and 12 clinical/lab hours per week for 7.5 weeks
In this course, the student applies the nursing process to the care of the mental health client and the dying client. The student develops skills required to address psychosocial (mental health) needs in adolescent, young adult and adult populations. Study of end of life care promotes understanding of the physiological and psychosocial aspects of the dying process. Concurrent clinical experience is offered in in-patient, community mental health and hospice settings. Prerequisites: NR 111/N 1000, NR 112/N 1010, NR 113/N 1020.

NR 231/N 3010 Medical-Surgical Nursing II 5 cr.
6 classroom hours and 12 lab/clinical hours per week for 7.5 weeks
In this course, students collaborate with all members of the health care team to address needs in multifaceted care situations. Emphasis is placed on concepts of care for medical-surgical clients with health alterations involving the immune, hematomal, renal/urinary, neurological and endocrine systems. Students utilize the nursing process, evidenced based practice and critical thinking to develop clinical decision making skills. Students engage in self-directed activities to foster professional growth. Concurrent clinical experiences are provided in acute in-patient and/or community settings. Prerequisites: NR 121/N 2010, NR 122/N 2020.
NR 232/N 3020  Maternal – Child Nursing  4 cr.
4 classroom hours and 12 clinical/lab hours per week for 7.5 weeks
This course focuses on the use of the nursing process to apply and integrate knowledge of nursing science to address the needs of clients in family maternity and pediatric settings. Emphasis is placed on adaptation of nursing care based on physical and psychosocial development and family dynamics. Care is approached from a health promotion perspective. Students collaborate with members of the healthcare team to assist families in accessing resources. Concurrent clinical experience is provided in family maternity and pediatric settings. Prerequisites: NR 121/N 2010, NR 122/N 2020.

NR 241/N 4010  Advanced Concepts in Medical-Surgical Nursing  5 cr.
6 classroom hours and 12 lab/clinical hours per week for 7.5 weeks
In this course, students apply the nursing process to address the advanced care needs of acutely ill clients. Emphasis is placed on the knowledge and skills required to provide safe care during acute and life-threatening events. Legal issues and ethical dilemmas encountered in emergent and critical situations are discussed. Concurrent clinical experience is provided in acute, critical and emergent settings. Prerequisites: NR 231/N 3010, NR 232/N 3020.

NR 242/N 4020  Nursing Leadership  4 cr.
4 classroom hours and 12 clinical/lab hours per week for 7.5 weeks.
This course integrates leadership and management principles into professional nursing practice. Major legal, ethical, social, economic and political trends are studied. Concurrent clinical experience is provided which focuses on role development, application of nursing knowledge, critical thinking and evaluation of care provided for individuals and/or groups of clients. Prerequisites: NR 231/N 3010, NR 232/N 3020.

NR 212/N 3000  Peri-Operative Nursing (elective)  3 cr.
2 classroom hours per week, total of 13 hours in skills lab and 32 hours precepted clinical experiences.
The course focuses on the roles of the registered nurse in meeting the needs of clients and significant others who are facing the potential or actual performance of an invasive procedure in any operative setting. Emphasis is placed on applying the nursing process to assist the surgical client in reaching a level of health equal to, or greater than, their pre-operative state. Concurrent clinical experience is offered in in-patient perioperative settings. Prerequisites: NR 111/N 1000, NR 112/N 1010, NR 113/N 1020, NR 121/N 2010, NR 122/N 2020 or with administrative approval.

NR 123/N 2015  Medical Surgical Nursing for the LPN  3 cr.
2 classroom hours per week with 45 hours clinical experience.
This course uses the eight core competencies of professional nursing practice to expand upon concepts of medical-surgical nursing for the LPN seeking advanced placement in the program. Emphasis is placed on the use of the nursing process, evidenced practice and critical thinking to develop clinical decision making skills. Students engage in self-directed activities to foster professional growth. Course consists of 45 hours of clinical experience provided in acute in-patients and/or community settings. Prerequisites: CH 106/107, BI 204/205, BI 206/207, EN 100/101 or EN 110, MA 110 or higher, PY 201, PY 251 and an ONAM Transition Course. Students may take the ONAM transition course and PY 251 concurrently with NR 123/N2015.
One of the most common questions History students are asked is: “Why are you majoring in History?” On the surface, this seems like a simple question, but once you think about it you may find that it isn’t all that easy to answer. History is different things to different people, and even historians debate the meaning of historical events among themselves.

Ultimately, history is personal. History is a part of everyone’s life, and it affects us in ways we may not always think about. We live in a society that is the result of generations of development. The decisions, actions, attitudes, beliefs, knowledge, fears, hopes, and feelings of people who have come before us have brought about the world we live in today. Knowing about the past can help us both appreciate the present and understand how we as a people and a society have come to this point in time. Past experience, if carefully considered, may offer lessons for dealing with present-day situations. Some might even argue that the past may offer clues to the future.

But what can you do with a degree in History? The simple answer is anything you want to do. People in widely diverse careers attribute their success to studying history as undergraduates. For example, people with undergraduate degrees in History work as attorneys and paralegals, in business, as writers and journalists, government officials, intelligence analysts, researchers, policy analysts, politicians, broadcasters, museum curators and teachers.

A list of career opportunities can be found here:

History majors at Notre Dame College also have the opportunity to work in numerous internships related to these careers. NDC history majors have interned in law offices, courts, libraries and historical societies, banks, fusion centers, think tanks, and foreign embassies. And, many NDC students who complete their undergraduate degrees in History eventually go on to earn graduate degrees.

HISTORY/Political SCIENCE

HISTORY MAJOR
39 Credits

Outcomes:

Students successfully completing a major in History will have developed a range of historical thinking skills and abilities which they will use in the acquisition of knowledge. Their work will be clear, precise, and well-reasoned. They will demonstrate the ability to use historical analogies effectively, show a command of key historical terms and distinctions, and will have the ability to identify and discuss fundamental historical problems knowledgeably.

Students will demonstrate the ability to analyze historical questions and issues clearly and precisely, formulate historical information accurately, recognize and evaluate key historical assumptions, use key historical concepts effectively, use historical language in keeping with established professional usage, identify relevant competing historical points of view, and reason carefully from clearly stated historical premises. They will recognize and evaluate important historical implications and consequences. They will demonstrate excellent historical reasoning and problem-solving.

Requirements:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>HI 110</td>
<td>Western Cultures from 1500</td>
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<tr>
<td>HI 200</td>
<td>Major Themes in American History</td>
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<tr>
<td>HI 450</td>
<td>Senior Research Seminar</td>
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<tr>
<td>EN 210</td>
<td>Critical Writing</td>
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<tr>
<td>HI 495</td>
<td>Cooperative Education Project</td>
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</table>

An additional eighteen (18) credits in history are required. Six credits (6) credits must be completed in political science. Three (3) of the eighteen (18) credits in history must be from the following courses: HI 210, HI 330, HI 332, HI 333, HI 334.

A student who desires to do so may also declare an area of special interest within the History major. These areas of special interest include U.S. History, European History or Non-Western History. Students will complete 12 hours of coursework in the area of special interest as well as completing the other requirements for the major.

Outstanding students with a major or minor in History may be inducted into the Omicron Iota chapter of Phi Alpha Theta, the national history honorary society.
POLITICAL SCIENCE MAJOR

36 Credits

Goals:
The political science major requires students to appreciate, comprehend and critique political systems of underdeveloped, developing and developed countries. Emphasis is placed on the development, implementation and evaluation of policy at the local, national and international level. The program prepares students for graduate work in political science, law and policy studies as well as for work in politics, government, and certain fields within the private sector. It cultivates and refines the student’s research, reading, writing and critical thinking skills.

Requirements:
Core Courses
- PO 111 American Government and Politics
- PO 210 State and Local Government and Politics
- PO 220 Introduction to Political Thought
- PO 350 Introduction to Social Science Research
- PO 450 Senior Research Seminar
- PO 495 Senior Practicum

American Politics
Two of the following:
- PO 315 Supreme Court and Constitutional Law
- PO 317 American Presidency and Congress
- PO 340 American Political Parties and Interest Groups
- PO 345 Politics and the Media

Comparative Politics/International Relations
Two of the following:
- PO 311 Comparative Politics
- PO 312 International Relations
- PO/HI 410 American Diplomacy
- PO 411 International Law

Public Policy/Public Administration
One of the following:
- PO 313 Public Policy in America
- PO 325 Public Administration: Concepts and Practices
- NR 410 Health Care Policy

An additional nine (9) credits in political science is required.

MINOR IN HISTORY

18 Credits

Requirements:
- HI 110 Western Cultures from 1500
- HI 200 Major Themes in American History
- EN 210 Critical Writing

An additional nine (9) credits in upper level history courses are required for completion of the program. Three (3) credits must be in a non-European and non-American content area.

MINOR IN POLITICAL SCIENCE

18 Credits

Requirements:
- PO 111 Introduction to Politics and Government
- PO 210 American Government
- PO 312 International Relations

An additional nine (9) credits (one selection from each subfield) are required for completion of the minor in Political Science.

MAJOR IN HISTORY WITH AN EMPHASIS IN INTELLIGENCE STUDIES

Students may enter the Intelligence Studies program by declaring a major in History with a concentration in Intelligence Studies. Students in the Intelligence Studies program will complete the required history coursework along with coursework listed below, including a senior project and an internship. In addition, they will complete the College’s General Education Requirements and round out their coursework by choosing a variety of electives from a grouping of recommended courses listed below. Students may also select a minor field of study designed to complement the Intelligence Studies program.

Outcomes:
Students in the Intelligence Studies program will have developed the skills and abilities described above for History majors. In addition, they will be able to write and deliver oral reports consistent with the expectations of the intelligence community, will understand the intelligence cycle and the intelligence process, and will recognize the various federal agencies that make up the national intelligence community and their respective missions.
Course Requirements:

- IP 150 Introduction to Intelligence
- IP 250 Methods of Research and Analysis
- IP 253 Writing for Intelligence
- IP 350 Terrorism
- IP 351 Competitive Intelligence
- IP 352 Methods of Financial Investigation and Research
- IP 353 Intelligence and National Security
- IP 452 Strategic Intelligence
- IP 453 Advanced Research and Analysis
- HI 450 Senior Research Project
- HI 495 Cooperative Education

Plus 12 credits in a foreign language

The following courses are **recommended but not required** for students in the Intelligence Studies Program. In consultation with an academic advisor, students will select that combination of courses that best fits their interests and goals in pursuing a career in intelligence in the public or private sector. Several of the courses listed below will also satisfy the College's general education requirements.

EC 202 Macroeconomics
GO 200 Introduction to Geography
IS 260 Computer Decision Making Applications
HI 200 Major Themes in American History
PH 200 Critical and Creative Thinking
PO 210 American Government
PO 220 Introduction to Political Thought
PY 200 General Psychology
CA 374 Intercultural Communication
CA 380 Organizational Communication
EC 305 Comparative Economic Systems
EN 318 Creative Writing
EN 323 Writing for the Non-Print Media
HI 312 America Ascendant: The United States from 1914 to the Present
HI 325 The Passing of the Old Order: Europe in the 20th Century
HI 330 Africa: A Continental History
HI 332 The Transformation of Japan: From Feudalism to Nationhood
HI 333 Middle East: From Islam to Nationalism
HI 334 The Making of Modern China
HI 336 Latin America: A Regional History
PO 311 Comparative Politics
PO 312 International Relations
PO 313 Public Policy in America
PO 345 Politics and the Media
EC 440 International Economics
EC 442 International Finance
EN 480 Great Books Seminar
HI 401 Historical Methodology
HI 410 American Diplomacy
PO 411 International Law

HISTORY MAJOR WITH A PRE-LAW EMPHASIS

Students interested in preparing for law school are wise to choose a rigorous History major which will help develop exceptional strength in critical reading and writing, logical reasoning, analytical thought, research skills, and moral responsibility to oneself and others. Because there is no specific pre-law major, students are encouraged to establish regular communication with an academic advisor as soon as possible in order to ensure the best possible preparation through course work, cooperative education, advising, and pre-professional testing.

Requirements:

**History:**

- HI 110 Western Cultures from 1500
- HI 200 Major Themes in American History
- HI 450 Senior Research Seminar
- HI 495 Cooperative Education Project
- EN 210 Critical Writing

An additional eighteen (18) hours in History are required. Six (6) credits must be completed in Political Science. Three of the eighteen (18) credits in History must be from the following courses: HI 210, HI 330, HI 332, HI 333, HI 334.

Although only one social science class is required, students planning to study law need a strong background in the social sciences and the humanities. Therefore, it is strongly recommended to choose as many courses as possible from this list:

- PY 201 General Psychology (highly recommended)
- PY 210 Social Psychology
- PY 375 Psychology of Personality
- PO 111 Introduction to Politics and Government
- PO 210 American Government
- HI/PO 315 American Constitutional Law (highly recommended)
- SO 201 Introduction to Sociology
- SO 310 Social Institutions
- SO 425 Conflict Management and Resolution (recommended)

Any other 300 level or higher course in literature.
The following electives are also recommended:
CA 201  Interpersonal Communication
CA 374  Presentation Techniques
       (recommended)
BU 155, 156  Accounting Principles I and II
BU 435  Business and Government

Political Science Majors (ALL)
Program Outcomes:
Students completing a degree in Political Science, Political Science with an Emphasis in Criminal Justice, and Political Science with an Emphasis in Public Administration will be able to identify and explain leading theories, literature, and approaches to the subfields of political science (with a strong focus on policy implications and consequences).

Students will be able to formulate and analyze effective argumentation in written and oral forms for public service and policy solutions. They will demonstrate a strong understanding and appreciation of the knowledge and civic responsibilities required for effective participation in public service and political life.

POLITICAL SCIENCE MAJOR WITH AN EMPHASIS IN CRIMINAL JUSTICE
48 Credits
The concentration in Criminal Justice is a multidisciplinary program designed to prepare students for careers in corrections, law enforcement, justice administration, or any of the many career paths in this area. Students will benefit from coursework that will prepare them to be leaders in the field by stressing applied problem solving and critical reasoning skills in a fast-paced, highly competitive, and rapidly changing environment. Through completion of the core requirements of the program and various electives, students will receive a well-rounded, values-based liberal arts education that will prepare them for success in the workplace or in graduate school.

This is a program with a conscience. The curriculum is consistent with the mission of the College, and is unique among similar programs for the following reasons:
1. Students will be made aware of the ethical principles of Catholic Social Justice teaching and its emphasis on the dignity of the human person.
2. Students will explore current trends and issues of criminal justice as they relate to personal, professional and global responsibility.

Core Courses in Political Science:
PO 111  American Government and Politics
PO 210  State and Local Government and Politics
PO 220  Introduction to Political Thought
PO 350  Introduction to Social Science Research
PO 450  Senior Research Seminar
PO 495  Senior Practicum

Additional courses for completion of the program:
PO 131  American Criminal Justice
PO 235  Theory & Applied Criminology
PO 313  Public Policy in America
PO 432  Ethics in Criminal Justice

Law and Administration of Justice:
PO 331  Courts and Justice
PO 332  Criminal Law

Police Studies:
PO 333  The Role of Police in Contemporary Society

Corrections:
PO 334  Corrections in America

Crime and Society:
PO 430  Criminal Justice Policy Analysis & Planning
PO 499  Victimology

POLITICAL SCIENCE MAJOR WITH AN EMPHASIS IN PUBLIC ADMINISTRATION
54 Credits
The program in public administration is an interdisciplinary concentration within the department of History and Political Science. The program is designed to give the students the necessary background that will enable them to pursue careers in public service, non-profit organizations, and also provides a basis for subsequent graduate work in MPA (Master of Public Administration) and other professional programs. Students will take coursework from political science, business, as well as three courses from economics.
Course Requirements

Political Science Core:
- PO 111 American Government and Politics
- PO 210 State and Local Government and Politics
- PO 220 Introduction to Political Thought
- PO 350 Introduction to Social Science Research
- PO 450 Senior Research Seminar
- PO 495 Senior Practicum

Political Science Coursework for Completion of the Program:
- PO 313 Public Policy in America
- PO 317 American Presidency and Congress
- PO 325 Public Administration: Concepts and Practices

Business Coursework for Completion of the Program:
- BU 240 Management Principles
- BU 341 Human Resource Management
- BU 388 Business Ethics
- BU 435 Business and Government

Economics Coursework for Completion of the Program:
- EC 201 Principles of Microeconomics
- EC 202 Principles of Macroeconomics
- EC 432 Public Finance

MAJOR IN POLITICAL SCIENCE WITH AN EMPHASIS IN INTERNATIONAL STUDIES
57 Credits

Political Science Requirements:
- PO 111 American Government and Politics
- PO 311 Comparative Politics
- PO 312 International Relations
- PO 410 American Foreign Policy
- PO 411 International Law
- PO 450 Senior Research Project
- PO 495 Cooperative Education

History
Select four courses:
- HI 330 Africa: A Continental History
- HI 332 The Transformation of Japan
- HI 333 The Middle East: From Islam to Nationalism
- HI 334 The Making of Modern China
- HI 336 Latin America: A Regional History
- IP 350 Terrorism

Electives
Select two courses:
- EC 305 Comparative Economic Systems
- EC 331 Money and Banking
- EC 440 International Economics
- EC 442 International Finance
- BU 450 International Marketing
- TH 370 Religions of the World

Plus 12 hours of a foreign language or equivalent.

MINOR IN POLITICAL SCIENCE WITH AN EMPHASIS IN INTERNATIONAL RELATIONS/STUDIES
21 Credits

Requirements:
- PO 111 American Government and Politics
- PO 311 Comparative Politics
- PO 312 International Relations
- PO 410 American Foreign Policy
- PO 411 International Law
- BU 450 International Marketing
- HI 330 Africa: A Continental History
- HI 332 The Transformation of Japan
- HI 333 The Middle East: From Islam to Nationalism
- HI 334 The Making of Modern China
- HI 336 Latin America: A Regional History

Plus nine (9) hours from the following courses:
- EC 305 Comparative Economic Systems
- EC 440 International Economics
- EC 442 International Finance
- IP 350 Terrorism
- TH 370 Religions of the World
- PO 411 International Law
- BU 450 International Marketing
- HI 330 Africa: A Continental History
- HI 332 The Transformation of Japan
- HI 333 The Middle East: From Islam to Nationalism
- HI 334 The Making of Modern China
- HI 336 Latin America: A Regional History

Students may supplement their studies in this area with literature courses such as EN 459 and EN 460.
ADOLESCENT TO YOUNG ADULT
LICENSE (GR. 7 - 12) AND MAJOR IN
INTEGRATED SOCIAL STUDIES

54 Credits

Requirements:
- EC 201 Principles of Microeconomics
- EC 202 Principles of Macroeconomics
- HI 110 Western Cultures from 1500
- HI 200 Major Themes in American History
- PO 111 American Government and Politics
- PO 210 State and Local Government and Politics
- PO 311 Comparative Politics
- HI 450 Senior Research Seminar

Geography:
- GO 200 World Geography

American History:
Choose two from the following:
- EC 304 Economic History of the United States
- HI 310 From Colonies to Nation
- HI 311 Forging the American Nation
- HI 312 America Ascendant
- HI/PO 315 American Constitutional Law
- HI 410 American Diplomacy
- HI 411 African-American History

European History:
Choose one from the following:
- HI 320 The Classical World & the Transition to Feudalism
- HI 321 Renaissance to Revolution
- HI 322 "Isms", Revolution and Imperial Expansion
- HI 325 The Passing of the Old Order

World Civilizations:
Choose one of the following:
- HI 210 Anthropology
- HI 330 Africa: A Continental History
- HI 332 The Transformation of Japan
- HI 333 The Middle East: From Islam to Nationalism
- HI 334 The Making of Modern China

American Political Development:
Choose one from the following:
- EC 432 Public Finance
- PO 313 Public Policy in America
- PO/HI 315 American Constitutional Law

The Interconnected World:
Choose two from the following:
- EC 305 Comparative Economic Systems
- EC 440 International Economics
- PO 312 International Relations
- PO 410 American Diplomacy
- PO 411 International Law

The Modern Society:
Choose one from the following:
- SO 201 Introduction to Sociology
- SO 222 Problems of Contemporary Society
- SO 305 Minority Groups

See EDUCATION for Professional Education Requirements.

AREA OF CONCENTRATION IN SOCIAL STUDIES FOR MIDDLE CHILDHOOD
LICENSE (GR. 4-9)

18 Credits

Requirements:
- HI 110 Western Cultures from 1500
- HI 200 Major Themes in American History
- EC 100 Economics and Contemporary Issues
- GO 200 Geography
- PO 111 American Government and Politics
- SO 201 Introduction to Sociology

See EDUCATION for Professional Education Requirements.

COURSE OFFERINGS

History

HI 110 Western Cultures from 1500 3 cr.
This course will examine the development of the Western World from 1500 to the present. Emphasis will be placed on the interaction between European culture and the culture of Africa, Latin America, the Middle East and Asia during the periods of colonialism, imperialism, and after independence.

HI 200 Major Themes in American History 3 cr.
A thematic survey of the political, economic, cultural development of American civilization from its inception to the present time. Themes will include the colonial experience, the development of the American nation, the national schism, American expansion, the evolution of American foreign policy, the American reform impulse, the growth of presidential power, and American diversity.
HI 301/WS 301 History and Themes of the Women’s Movement 3 cr.
A course aimed at exploring how women have shaped and are shaping their own lives and the world. It begins with an overview of the role of women in Western culture since Paleolithic times. Then writers in the First Wave of Feminism (1840-1920) and from the Second Wave (1970 to the present) are surveyed.

The course will focus on themes relevant to students and to important current developments for women. Teaching is marked by collaboration, a key element in feminist methodology. Prerequisite: sophomore or departmental permission.

HI 310 From Colonies to Nation: American History from 1600-1820 3 cr.
An examination of the emergence of the American nation, from the colonial experience through the revolutionary period and the early national period. Prerequisite: sophomore or departmental permission.

HI 311 Forging the American Nation: The United States from 1820-1914 3 cr.
This course traces the growth of the United States during the 19th century. Major themes to be explored include expansion, slavery and sectionalism, reconstruction, industrialism, and imperialism through the progressive movement. Prerequisite: sophomore or departmental permission.

HI 312 America Ascendant: The United States from 1914 to the Present 3 cr.
Examines the development of the United States into a world superpower, focusing on the reforms of the New Deal, New Frontier/Great Society, and the Civil Rights Movement. Also considered is the assumption of international responsibility through two world wars and the Cold War. Attention is also paid to issues in American diversity and the divisions in the nation resulting from the Vietnam conflict along with recent issues of significance. Prerequisite: sophomore or departmental permission.

HI/PO 315 American Constitutional Law 3 cr.
This course includes a study of the origins and development of the American constitutional system, focusing on Supreme Court decisions through a case study approach to the politics of judicial review, intergovernmental relations, the commerce, taxing and treaty and war powers and the Bill of Rights and their influence on American government and society. Prerequisite: sophomore or departmental permission.

HI 318 Ohio History 3 cr.
Examines the history of Ohio from pre-colonial times to the present. Prerequisite: sophomore or departmental permission.

HI 320 The Classical World and the Transition to Feudalism 3 cr.
This course explores the development of the European world between 500 BCE and 1000 CE. The development of the classical ancient world and its subsequent collapse is examined, followed by the Dark Ages and the emergence of feudalism, with special attention paid to the political, economic and social aspects of feudal Europe. Prerequisite: sophomore or departmental permission.

HI 321 Renaissance to Revolution 3 cr.
This course examines the reawakening of Europe beginning with the Renaissance, followed by the Age of Discovery, the Scientific Revolution, the Enlightenment and Industrial Revolution, concluding with the origins and effects of the French Revolution. Special attention is given to the spread of European culture globally and its initial impact on non-European societies. Prerequisite: sophomore or departmental permission.

HI 322 “Isms”, Revolution and Imperial Expansion 3 cr.
Explores the “long century” of European history following the end of the Napoleonic Wars to the eve of World War I. New themes in European thinking are examined, along with the spread of industrialism, the rise of nationalism and the resurgence of imperialism. Prerequisite: sophomore or departmental permission.

HI 325 The Passing of the Old Order: Europe in the 20th Century 3 cr.
An examination of the end of the Balance of Power system and the devastating effects of the two world wars on Europe’s place in the world. Beginning with the origins of World War I through the end of the Cold War, the reduction of western Europe’s dominant position in the world will be investigated. Special attention will be given to the failure of the Treaty of Versailles, the rise of fascism, the Holocaust and the origins and effects of the Cold War on Europe. Prerequisite: sophomore or departmental permission.

HI 330 Africa: A Continental History 3 cr.
Examines African history from earliest times to the present, with emphasis on the 19th and 20th centuries; the ancient African civilizations, the impact of Europe, the colonial era and the development of the modern independent African states. Prerequisite: sophomore or departmental permission.
HI 332 The Transformation of Japan: From Feudalism to Nationhood 3 cr.
An investigation into the transition of Japan from a feudal, agrarian society dominated by a military dictatorship to a modern, western-style nation and the world’s second leading economic power. The major aspects of traditional Japanese society, culture and politics will be examined first, followed by a study of creation of the modern Japanese state. Consideration will be given to the speed with which this transformation was accomplished, Japanese expansion and militarism and Japan’s “economic miracle” following the World War II. Prerequisite: sophomore or departmental permission.

HI 333 The Middle East: From Islam to Nationalism 3 cr.
This course examines Middle Eastern history from the time of Muhammad to the present, with emphasis on the 19th and 20th centuries: the origins and spread of Islam, the rise and fall of the Ottoman and Safavid Empires, the era of European imperialism, and the development of the contemporary Middle East. Prerequisite: sophomore or departmental permission.

HI 334 The Making of Modern China 3 cr.
Focuses on the struggle to remake Chinese society in light of the effects of western imperialism on China. Traditional China is examined briefly, then the course focuses on China’s struggles in the 19th and 20th centuries to throw off foreign encroachment and transform itself into a modern nation. Prerequisite: sophomore or departmental permission.

HI 336 Latin America: A Regional History 3 cr.
An overview of the development of Latin America from the arrival of the indigenous population to the present day. The focus will be on the diversified culture of the region, its role within the Western Hemisphere, and its relationship with the United States. Prerequisite: sophomore or departmental permission.

HI 401 Colloquium on Historical Methodology 3 cr.
An exploration of the development of historiography as represented in the works of the world’s great historians from ancient times to the present. Consideration will be given to methods of research, evaluation of historical evidence and historical interpretation. Prerequisite: sophomore or departmental permission.

HI/PO 410 American Diplomacy 3 cr.
An examination of the evolution of American foreign policy from isolationism to the assumption of international responsibilities. Special attention will be paid to the increasing role of the executive in the making of American foreign policy. Prerequisite: sophomore or departmental permission.

HI 411 African-American History: The Struggle for Freedom and Equality 3 cr.
An investigation of the role of Black Americans in the history of the United States through the years of slavery, the transition from servitude to freedom and the struggle to acquire equal rights within American society and the special contributions Black Americans have made to the development of the American nation. Prerequisite: sophomore or departmental permission.

HI 421 The Holocaust 3 cr.
A consideration of key issues and events which led to the Holocaust, 1939-1945, the World War II era. The course examines the history of Europe between the world wars, focusing on Jews, Gentiles, and Germans. The impact of the rise of the Third Reich and passage of the Nuremberg laws will be discussed, and attention is paid to the condition of Gentiles and Jews at the outbreak of the war and the shadow of death that enveloped them in Germany and the occupied countries. The implementation of the Final Solution is traced along with its ramifications for Europe. The course concludes with the process of liberation of the concentration camps by the Allies and the destiny of those who survived. Prerequisite: sophomore or departmental permission.

HI 450 Senior Research Seminar 3 cr.
This course explores research methodology and allows the students to develop a research project based on their interests and needs. Prerequisites: Twelve hours of history and senior standing.

HI 450 Senior Research Seminar 3 cr.
This course explores research methodology and allows the students to develop a research project based on their interests and needs. Prerequisites: Twelve hours of history and senior standing.

HI 495 Cooperative Education (Junior Status) 3 cr.
COURSE OFFERINGS

Intelligence Analysis and Research

IP 150  Introduction to U.S. Intelligence  3 cr.
An overview of the scope, elements and history of intelligence activities, with special emphasis on the American experience. Particular attention is paid to the role of intelligence in a democratic society.

IP 250  Methods of Research and Analysis  3 cr.
An integrated lecture and applications course that will develop basic skills in writing for intelligence, analysis, presentation, and technology. Prerequisite: IP 150.

IP 253  Writing for Intelligence  3 cr.
An introduction into the fundamentals of effective intelligence writing and presentation. Emphasis is placed on the variety of forms of intelligence writing, briefing styles, evaluation of intelligence products, for form and substance, and application of various advanced analytic techniques. Prerequisites: IP 150 and EN 110 or equivalent.

IP 350  Terrorism  3 cr.
An examination of the origins of terrorism and its evolution in order to develop an understanding of the roots, development, and impact of contemporary worldwide terrorism, especially in the United States. Prerequisite: sophomore or departmental permission.

IP 351  Competitive (Business) Intelligence  3 cr.
Explores the actionable information needs of modern business for competitive intelligence and business analysis with an emphasis on practical exercises and the use of open sources. Prerequisite: sophomore or departmental permission.

IP 352  Methods of Financial Investigation & Research  3 cr.
An examination of the tools and some of the financial background used by accountants and others in identifying financial fraud. Included is the examination of various types of records (bank, personal, etc.), which are at the center of financial investigation and analysis. Although some attention is paid to "white collar" crime, the course emphasizes the technical aspects involved in the investigation of financial crimes and the analysis of financial data necessary to make a financial case. Prerequisite: sophomore or departmental permission.

IP 353  Intelligence and National Security  3 cr.
An introduction to the process of national security decision-making in the United States with a special emphasis on the role of intelligence in formulating policy. Included is an historical overview of national security politics and practices since World War II, a description of major institutions and processes in national security policymaking, and a survey of significant national security problems and their changing nature in the 21st century. Prerequisite: sophomore or departmental permission.

IP 452  Strategic Intelligence  3 cr.
This course is divided into three parallel tracks that will cover strategic theory, the practice of strategic intelligence, and the application of those principles to a “real life” problem. Students will participate throughout the course as the member of a group in a large-scale estimative project. This project will require a minimum of two graded papers and two graded presentations, as well as a variety of more modest assignments. Prerequisite: junior or departmental permission.

IP 455  Advanced Research and Analysis  3 cr.
A continuation of the introductory course, which strives to develop enhanced skill levels, research processes, and analytical products. Prerequisites: IP 150, IP 250, IP 253, junior standing.

COURSE OFFERINGS

Political Science

PO 111  American Government and Politics  3 cr.
This course examines the American political system with emphasis on the fundamental principles, ideas, institutions and processes of modern government.

PO 210  State and Local Government and Politics  3 cr.
This course examines the institutions, processes and intergovernmental relations at a state and local level. Particular attention will be paid to contemporary issues and problems of state and local governments.

PO 220  Introduction to Political Thought  3 cr.
This course examines the field of political science through an introduction to the major ideas and concepts of political thought. Topics covered include: western political theory from pre-Socrates through the enlightenment and modern times. Relationship of various thinkers to current political climate will also be explored.
PO 311 Comparative Politics 3 cr.
This course examines one of the subfields of political science: comparative political analysis. Various political systems are studied including: European, Asian, and African governmental systems. Prerequisite: sophomore or departmental permission.

PO 312 International Relations 3 cr.
This course examines the basic factors which motivate nations in their contact with one another, including the modern state system, nationalism, and militarism. Problems are discussed arising from conflicting national policies, international institutions, and implications for war and peace. Prerequisite: sophomore or departmental permission.

PO 313 Public Policy in America 3 cr.
This course examines public policy and the policy making process at all levels of government. Emphasis is on the roles of various participants in the executive and legislative branches as well as private individuals and groups. Prerequisite: sophomore or departmental permission.

PO/HI 315 Supreme Court and Constitutional Law 3 cr.
This course examines the judicial branch of the federal government and the interpretation of the Constitution by the Supreme Court. This course utilizes a case study approach through landmark decisions of the Supreme Court. The politics of the Court, judicial review, and the impact on American government and society will also be examined. Prerequisite: junior or departmental permission.

PO 317 American Presidency and Congress 3 cr.
This course examines the structure and function of the executive and legislative branches of American government. Emphasis is placed on conflict that arises between the President and Congress as well as the role of leadership and policy. Prerequisite: sophomore or departmental permission.

PO 325 Public Administration: Concepts and Practices 3 cr.
This course examines the the field of public administration. It introduces the student to public service through current administrative theories and their application to public bureaucracies. Emphasis is placed on practices to improve the quality of public sector administration. Topics include: budgeting, personnel administration, non-profit sector management, and performance measurement. This course is especially designed for students interested in public sector employment. Prerequisite: sophomore or departmental permission.

PO 340 American Political Parties and Interest Groups 3 cr.
This course examines the development, structure, and function of political parties and interest groups in the United States. Prerequisite: sophomore or departmental permission.

PO 345 Politics and the Media 3 cr.
This course examines the relationships between the press, news media and political decision-makers. Emphasis is on the impact the media has on government and society. Prerequisite: sophomore or departmental permission.

PO 350 Introduction to Social Science Research 3 cr.
This course examines the research process through the logic of social science inquiry and contemporary techniques of analysis. Prerequisite: sophomore or departmental permission.

PO/HI 410 American Diplomacy 3 cr.
This course examines the evolution of American foreign policy from isolationism to the assumption of international responsibilities. Special attention will be paid to the increasing role of the executive in the making of American foreign policy. Prerequisite: sophomore or departmental permission.

PO 411 International Law 3 cr.
This course examines the evolution of international law and its role in international relations. The historical development of systems of international law will be traced and major facets of international law, including treaties, maritime law, the rules of war and human rights issues will be examined. Prerequisite: sophomore or departmental permission.

PO 450 Senior Research Seminar 3 cr.
This course examines research methodology and allows the students to develop a research project based on their interests and needs. Prerequisites: Twelve hours of political science and senior standing.

PO 495 Cooperative Education (junior status) 3 cr.
COURSE OFFERINGS

Criminal Justice

PO 131 American Criminal Justice 3 cr.
Overview of the criminal justice system that discusses the historical development and operations of the contemporary justice system in the United States, with an emphasis on emerging trends in the concepts and practices of the relevant agencies.

PO 235 Theory & Applied Criminology 3 cr.
An introduction into the history of crime, the sociology of criminal law, the operation of the criminal justice system, focusing on the roles of the police, prosecutors, defense attorneys, and judges. Offender types, including conventional, white collar, and organized crime are also considered as are theories of causation, victimology, prison, probation, and parole, and current trends and issues in criminology.

PO 331 Courts and Justice 3 cr.
An overview and examination of the functions, operations, and decision-making processes of the American court system. Prerequisite: sophomore or departmental permission.

PO 332 Criminal Law 3 cr.
An investigation and evaluation of the growth of legal relationships between the individual and government with special attention paid to the problems of law enforcement, including the adjudication of law and the impact of these decisions on both the citizen and the criminal justice system. Prerequisite: sophomore or departmental permission.

PO 333 The Role of Police in Contemporary Society 3 cr.
An examination of the role behavior and life of the line officer within the police subculture and in modern society. Among the topics presented are the influence of coercive power, subcultural influences, and personal issues related to loyalty, stress, health, critical incidents, family, and faith. Prerequisite: sophomore or departmental permission.

PO 334 Corrections in America 3 cr.
An examination of the correctional institution, including the history of penology, structure and organization, personnel, and inmate social world within American prisons. Also studied are the areas of probation and parole, and their place in the overall concept of rehabilitation and community corrections in modern society. Prerequisite: sophomore or departmental permission.

PO 430 Criminal Justice Policy Analysis & Planning 3 cr.
An examination of the historical and contemporary efforts to control or prevent crime. Major policies, programs, and strategies will be reviewed and critically analyzed. An emphasis will be placed on the development of analytical skills and the appropriate use of statistical techniques. Computer applications and other practical methods will be presented. Prerequisite: sophomore or departmental permission.

PO 432 Ethics in Criminal Justice 3 cr.
An examination of ethical behavior that will provide criminal justice students with the relevant decision-making skills that will enhance the practitioner’s duty performance as well as the public interest. The emphasis will be on making moral, rational, and responsible decisions which will lead to ethical professional behavior. (Must be taken at Notre Dame College.) Prerequisite: sophomore or departmental permission.

PO 499 Victimology 3 cr.
This course serves as an introduction to the study of victimology. Crime victims and their interactions with the criminal justice system, society and the media will be examined. The concept of victim precipitation, victim-blaming and the movement to empower victims will be addressed. Prerequisites: PO 131 and junior status.

COURSE OFFERINGS

Geography and Anthropology

GO 200 Introduction to World Geography 3 cr.
This course studies the physical, political and economic aspects of the geography of three major regions of the world.

HI 210 Anthropology 3 cr.
Prehistoric and contemporary primitive society; implications for advanced societies.
MANAGEMENT
INFORMATION SYSTEMS

Program Outcomes:
Students completing a major in Information Systems are prepared to function as professionals in the discipline or to continue their education in graduate school. In accordance with the Association for Computing Machinery’s Computing Curricula Report, students who successfully complete the major in Information Systems will be able to analyze information requirements and business processes and be able to specify and design computing infrastructures and information systems that are aligned with corporate strategic missions and goals. They will understand both technical and organizational factors, enabling them to help an organization determine how information and technology-enabled business processes can provide a competitive advantage. They will exhibit strong analytical and critical thinking skills, ethical principles, and interpersonal communication and team skills.

COURSE OFFERINGS

IS 120  Basic Computer Skills  3 cr.
This course will introduce the student to basic computer skills including: using a keyboard, using a mouse, word processing, using email, introduction to Web-based classroom management software, online discussion groups, other online collaboration tools and accessing information on the Internet. Computer placement test required.

IS 220  Computer Productivity Applications  3 cr.
Introduction to computers and information systems. Overview of computer hardware, software, and use in society. Instruction in advanced features of Windows, advanced word processing, and using spreadsheets, presentation graphics, and web page development software. Prerequisite: IS 120 or placement test.

IS 222  Programming Logic & Design  3 cr.
Language-independent course introducing the computer program design and development process. Identification and solution of business problems emphasized. Concepts include program structures, decision-making, flow control, algorithm development and arrays. Techniques include structured flow charts, hierarchy charts, and the use of pseudocode in program design. Prerequisite: MA 110 or concurrent.

IS 223  Visual Basic Programming  3 cr.
Introduction to the programming language Visual Basic as it is applied to business problems. Emphasis on the syntax of Visual Basic and techniques for developing, debugging, and documenting programs. Taken concurrently with IS 224 Visual Basic Programming Lab. Prerequisite: IS 222.

IS 224  Visual Basic Programming Lab  1 cr.
One 2.75 hour lab period weekly taken concurrently with IS 223 Visual Basic Programming. Lab provides hands-on experience working with the Visual Basic language.

IS 243  Multimedia Development  3 cr.
Introduction to the concepts of multimedia software, hardware, development concepts and basic visual and human interface design issues. Hands-on experience with multimedia hardware and software. Prerequisite: IS 220.

IS 245  Web Site Design and Development  3 cr.
Emphasizes general principles of designing and building web sites. Use of HTML and web page editors to build complete web sites. Use of scripting languages to tie web sites to databases and add other features to the web site. Prerequisite: IS 220.

IS 260  Computer Decision-Making Applications  3 cr.
Focus on intermediate level skills in spreadsheet and database management packages. Emphasis on using the software tools to solve problems. Prerequisite: IS 220.

IS 310  Systems Analysis  3 cr.
Introduction to business systems analysis. The phases of the systems analysis and design cycle are examined using an approach that provides the student with a practical method for the application of systems techniques in the analysis, design, implementation, and evaluation of business information systems. Prerequisites: BU 235 and IS 260.
IS 323  Info Technology Hardware & Software  3 cr.
Principles and application of telecommunication and computer systems hardware and software will be presented through lecture, installation, configuration, and operations experiences. The course provides the hardware-software technology background to enable systems development personnel to understand tradeoffs in computer architecture for effective use in the business environment. Prerequisite: IS 220.

IS 333  Java Programming  3 cr.
Introduction to the Java programming language. Emphasis on the syntax of Java and techniques for developing, debugging, and documenting Java applications and Java applets. Taken concurrently with IS 334 Java Programming Lab. Prerequisite: IS 222.

IS 334  Java Programming Lab  1 cr.
One 2.75 hour lab period weekly taken concurrently with IS 333 Java Programming. Lab provides hands-on experience working with the Java language.

IS 335  Network Essentials  3 cr.
Introduction to network technology for local area networks (LANs), wide area networks (WANs), and the Internet. Emphasis on planning, implementing, managing, and troubleshooting a network. Prerequisites: IS 220 and IS 323.

IS 336  C++ Programming  3 cr.
Introduction to the object-oriented computer programming language C++. Emphasis on the syntax of C++ and techniques for developing, debugging, and documenting programs. Taken concurrently with IS 337 C++ Programming Lab. Prerequisite: IS 222.

IS 337  C++ Programming Lab  1 cr.
One 2.75 hour lab period weekly taken concurrently with IS 336 C++ Programming. Lab provides hands-on experience working with the C++ language.

IS 350  Database Management Systems  3 cr.
A study of problems in managing data as a valuable resource of an organization. Topics include data structures, data models (hierarchical, network, inverted, relational), database management systems, database administration, data dictionaries, database design, and issues related to data management (ownership, integrity, sharing, security, privacy). Exposure to microcomputer database management systems. Prerequisites: IS 222, IS 260 and IS 310.

IS 391-394 Selected Topics in Info Systems  3 cr.
Study of selected topics in Information Systems. Topics will vary; title will reflect topics covered in a particular offering. Some possibilities are Advanced Web Site Development, Using VBA with Microsoft Office, Advanced Spreadsheet Analysis. Prerequisite varies with topic.

IS 443  Advanced Multimedia Development  3 cr.
Focus on the physical design, testing, and implementation of a multimedia module developed with an authoring program such as Macromedia Director. Prerequisites: IS 222 and 243.

IS 491-494 Independent Study  1-3 cr.
Opportunity for the student to study specific topics of interest not covered in curriculum which would aid in overall content knowledge of business or help better prepare student for career. Must have approval of department. Prerequisite: junior or senior standing.
MATHEMATICS

The mathematics program provides students with a broad foundation in mathematical knowledge, applications, and aesthetics for the purpose of preparation for careers, graduate school, and personal enrichment. Students pursuing either a Bachelor of Arts or Bachelor of Science in mathematics must complete the common major requirements as well as an area of concentration chosen from one of the areas below. In addition, it is recommended that students complete PH 200 Critical and Creative Thinking, which fulfills a General Education Requirement.

Upon completing the course of studies as a major in mathematics, our graduates will:
- Demonstrate a deep understanding of what mathematics is and what it is not by explanations of the components of mathematics, including what an axiomatic system is and how it applies to Geometry, where it originated as well as to other branches of mathematics.
- Use mathematical vocabulary correctly.
- Explain why each branch of mathematics was developed, what types of problems each branch solves and prove some of the basic theorems of these branches.
- List the people who made major contributions to mathematics over the centuries and explain what their contributions were.
- Demonstrate skill in determining which mathematical tools to use in solving problems of various types.
- Demonstrate skill in solving problems which require algebra, geometry, calculus, statistics or number theoretic methods for solution.

Common Major Requirements (27 Credits):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA 175</td>
<td>Calculus I</td>
<td>4 cr.</td>
</tr>
<tr>
<td>MA 176</td>
<td>Calculus II</td>
<td>4 cr.</td>
</tr>
<tr>
<td>MA 277</td>
<td>Calculus III</td>
<td>3 cr.</td>
</tr>
<tr>
<td>MA 280</td>
<td>Differential Equations I</td>
<td>3 cr.</td>
</tr>
<tr>
<td>MA 330</td>
<td>Modern Geometry</td>
<td>3 cr.</td>
</tr>
<tr>
<td>MA 331</td>
<td>Linear Algebra and Matrix Theory</td>
<td>3 cr.</td>
</tr>
<tr>
<td>MA 332</td>
<td>Introduction to Discrete Mathematics</td>
<td>3 cr.</td>
</tr>
<tr>
<td>MA 432</td>
<td>Modern Algebra</td>
<td>3 cr.</td>
</tr>
<tr>
<td>MA 481</td>
<td>Coordinating Seminar</td>
<td>1 cr.</td>
</tr>
</tbody>
</table>

The Bachelors of Arts degree also requires a Cooperative Education experience (MA 295, 395, or 495) or a Student Teaching Experience (see requirements under Education).

PREPROFESSIONAL MATHEMATICS CONCENTRATION
39 Credits

This area of concentration will provide the students with the opportunity for personal growth by preparing them for further studies in graduate school as well as for entry level positions in various mathematical and other related professions, and will show the students how they can use their individual skills to better our society as a whole.

Common Major Requirements plus the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA 363</td>
<td>Numerical Analysis I</td>
<td>3 cr.</td>
</tr>
<tr>
<td>MA 410</td>
<td>Differential Equations II</td>
<td>3 cr.</td>
</tr>
<tr>
<td>MA 452</td>
<td>Discrete Structures</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

Plus one elective 300 level and above

AREA OF CONCENTRATION IN MATHEMATICS FOR ADOLESCENT TO YOUNG ADULT LICENSE (GR. 7-12)
39 Credits

Common Major Requirements plus the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA 221</td>
<td>Statistics I</td>
<td>3 cr.</td>
</tr>
<tr>
<td>MA 310</td>
<td>Number Theory</td>
<td>3 cr.</td>
</tr>
<tr>
<td>Two upper-biennium math electives</td>
<td>6 cr.</td>
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</tr>
</tbody>
</table>

See EDUCATION for Professional Education Requirements.

AREA OF CONCENTRATION IN MATHEMATICS FOR MIDDLE CHILDHOOD LICENSE (GR. 4 - 9)
15 Credits

Requirements:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA 120</td>
<td>Pre-Calculus</td>
<td>3 cr.</td>
</tr>
<tr>
<td>MA 130</td>
<td>Elementary Number Theory</td>
<td>3 cr.</td>
</tr>
<tr>
<td>MA 131</td>
<td>Geometry, Probability and Statistics from an elementary point of view</td>
<td>3 cr.</td>
</tr>
<tr>
<td>MA 221</td>
<td>Statistics I</td>
<td>3 cr.</td>
</tr>
<tr>
<td>MA 330</td>
<td>Geometry</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

See EDUCATION for Professional Education Requirements.
MATHEMATICS MINOR

23 Credits

Requirements:
MA 175 Calculus I 4 cr.
MA 176 Calculus II 4 cr.
MA 277 Calculus III 3 cr.
MA 330 Modern Geometry 3 cr.
MA 331 Linear Algebra and Matrix Theory 3 cr.
Plus two electives (one at 200-level and
one at 300/400-level) 6 cr.

MATHEMATICS PLACEMENT TEST

A student who intends to register for any of the following
courses is required to have successfully completed the
prerequisite for that course within two years prior to
registration or to have demonstrated proficiency by
taking a mathematics placement test within two years
prior to registration.

MA 100 MA 130 MA 221
MA 110 MA 131 MA 330
MA 120 MA 175

BINARY PROGRAM IN ENGINEERING

Students who are interested in pursuing a career in
engineering may enter the Binary Program in
Engineering. Students who major in mathematics or
science at Notre Dame College can apply for admission
to a binary program at Case Western Reserve University.
The application should be made during the sophomore
year so that course arrangements can be made by the
beginning of the junior year. However, a freshman
entering Notre Dame College should make known to the
academic advisor the intent to enter the binary program.

At the conclusion of the engineering degree
requirements, the student will receive a BS degree
from Notre Dame College and a BS degree from the
School of Engineering, Case Western Reserve University.
The program takes a minimum of five years.

Students who wish to pursue engineering after
graduation can do this with an undergraduate major in
chemistry or mathematics. During the sophomore year
the student should know the program requirements of
the planned graduate school so that the appropriate
course electives can be chosen.

COURSE OFFERINGS

MA 100 Introductory Algebra 3 cr.
Sets, real numbers, basic algebraic operations and
polynomial arithmetic, factoring, linear equations and
inequalities, rectangular coordinate systems, solution
of linear systems, algebraic fractions, exponents and
radicals, solution of quadratic equations and
applications. (Placement test required)

MA 110 Intermediate Algebra 3 cr.
Algebraic operations, solving equations and inequalities,
lines, inequalities and their graphs, introduction to
conic sections, introduction to functions, exponential
and logarithmic functions, systems of equations, problem
solving techniques and applications. Prerequisite:
MA 100 or both of the following: one unit of high
school algebra and one unit of high school geometry.
(Placement test required)

MA 120 Precalculus Mathematics 3 cr.
Functions, exponential and logarithmic functions,
trigonometric functions and their inverses, identities,
equations and applications and analytic geometry.
Prerequisite: MA 110 or equivalent. (Placement
test required)

MA 130 Elementary Number Theory 3 cr.
General preparation in mathematics for elementary
educators. Set theory, problem solving strategies, pattern
recognition, numeration systems, number theory,
properties of and operations with real numbers.
Prerequisite: MA 110 or equivalent. (Placement
test required)

MA 131 Geometry, Probability and Statistics
from an Elementary Point of View 3 cr.
General preparation in mathematics for elementary
educators. Geometry with emphasis on shapes and
measurement, transformational geometry and
symmetry, logic, counting methods, permutations and
combinations, an introduction to probability and
statistics. Prerequisite: MA 110 or equivalent.
(Placement test required)
MA 175 Calculus I 4 cr.
Review of functions and graphs, limits and continuous functions, the derivative, differentiation of algebraic and transcendental functions, applications, anti-derivatives, definite integrals and applications. Prerequisite: MA 120 or equivalent. (Placement test required)

MA 176 Calculus II 4 cr.
Continuation of MA 175. The definite integral, computation of anti-derivatives, techniques of integration, the Fundamental Theorem of Calculus, applications, plane curves and polar coordinates. Prerequisite: MA 175.

MA 191, 192 Selected Topic 1-3 cr.

MA 220 Applied Finite Mathematics 3 cr.
Introduction to mathematical modeling, usage and arithmetic of matrices, linear programming, counting techniques, probability, Markov processes and the mathematics of finance. Prerequisite: MA 110 or equivalent. (Placement test required)

MA 221 Statistics I 3 cr.
Descriptive statistics, probability, normal and binomial distributions, sampling concepts, sampling distribution, estimation, hypothesis testing, confidence intervals and linear correlation. Prerequisite: MA 110 or equivalent. (Placement test required)

MA 277 Calculus III 3 cr.
Continuation of MA 176. Sequences, series, Taylor series, multivariable calculus, analytic geometry in R3, partial derivatives, applications of the derivative, multiple integrals, applications of multiple integrals, vector functions and their derivatives. Prerequisite: MA 176.

MA 280 Differential Equations I 3 cr.
First-order equations and applications, higher-order linear equations, linear systems, series solution of linear equations, LaPlace transform solution of linear equations and introduction to numerical methods of solution. Prerequisite: MA 277.

MA 295, 395, 495 Cooperative Education 1-6 cr.
A program which enables students to receive credit for work, paid or volunteer, related to their academic studies in their major field, both to make these studies more practical and to open possibilities for employment after graduation. Prerequisite: sophomore status.

MA 300 Statistics II 3 cr.
Continuation of estimation and hypothesis testing, correlation, simple and multiple regression, inferences on variances and proportions, analysis of variance (ANOVA), nonparametric tests, index numbers, time series and introduction to decision theory. Prerequisite: EC/MA/PY 221.

MA 310 Number Theory 3 cr.
Divisibility properties of integers, prime numbers, linear and quadratic congruences, Diophantine equations, special number theory functions and quadratic residue theory. Corequisite: MA 332.

MA 330 Modern Geometry 3 cr.
Axiomatic foundations to Euclidean and non-Euclidean geometries and contemporary approaches to the study of geometry. Prerequisite: MA 120 or equivalent. (Placement test required)

MA 331 Linear Algebra and Matrix Theory 3 cr.
Algebra of matrices, systems of linear equations, Gaussian-Jordan reduction, inverses, discriminants, eigen values, linear spaces and subspaces, spanning sets, linear independence, basis, null space, change of basis, orthogonal bases, linear transformations, matrix representation and composition of transformation. Prerequisite: MA 176 or MA 120 with departmental approval, or MA 220 with department approval.

MA 332 Introduction to Discrete Mathematics 3 cr.
Logic and set theory, proof techniques, relations and functions, algorithms, elementary properties of integers, counting techniques and probability. Prerequisite: MA 175 or MA 120 with department approval or MA 220 with department approval.

MA 350 Math History 3 cr.
A study of algebra, number theory, irrational numbers, analytical geometry, the Calculus, non-Euclidean geometries and infinite sets from an historical perspective. Prerequisite: MA 120.

MA 363 Numerical Analysis I 3 cr.
Theory and techniques of numerical computation, interpolation by Lagrange and difference methods, numerical differentiation and integration and numerical solution of differential equations. Prerequisite: MA 176.
MA 391, 392  Selected Topics  1-3 cr.

MA 410  Differential Equations II  3 cr.
Infinite series, complex variables, vector analysis, Fourier series, curvilinear coordinates and partial differential equations. Prerequisite: MA 280.

MA 416  Advanced Probability and Statistics  3 cr.
This course will encounter topics such as sample space, discrete and continuous probability functions, special distributions, combinatorics, random variables, expected values, moment-generating functions, and estimation. Prerequisites: MA 176 and MA 300.

MA 432  Modern Algebra  3 cr.
Groups, rings, fields, normal subgroups, congruence, quotient groups, ideals, quotient rings, equivalence relations, abstract algebraic structures. Prerequisite: MA 332 (or corequisite).

MA 452  Discrete Structures  3 cr.
Graph theory, Boolean algebras, logic, networks, structures, morphisms and finite state machines. Prerequisite: MA 332.

MA 463  Numerical Analysis II  3 cr.
Matrix computations and solutions of linear equations, iterative solutions of systems of equations, computer methods of optimization and simulations. Prerequisite: MA 280.

MA 481  Coordinating Seminar  1 cr.
Special topics in mathematics are explored in an interdisciplinary format. Preparation of a research paper for public presentation is required. No prerequisite. Taken in final semester before graduation.

MA 491, 492  Independent Study  1-3 cr.

MODERN LANGUAGES

Program Goals:
1. To enable the student to experience a different way of structuring human communication and thought patterns.
2. To provide access to another culture and stimulate curiosity about how languages and cultures function.
3. To understand some of the literature written in the language and appreciate the artistic achievements and historical richness of Hispanic language and culture.

SPANISH MINOR

24 Credits
Requirements:
2 courses from the following:
SP 201, 202  Intermediate Spanish I, II
SP 315, 316  Advanced Oral and Written Expression I, II

1 course from the following:
SP 363, 364  Contemporary Hispanic Culture and Civilization I, II
SP 385, 386  Hispanic Civilization I, II

1 course from the following:
SP 321, 322  Readings in Modern Hispanic Literature I, II
SP 334  Latin American Literature
SP 367  The Spanish Classic Period
SP 473, 474  Cervantes and the Masterpieces of Spanish Literature

1 course from the following:
SP 365  Spanish for Business
SP 420  Introduction to Professional Translating
SP 430  Practicum: Literary and Technical Translating
SP 440  Commercial Translating
One course from the above literature offerings.
MULTI-AGE LICENSE IN SPANISH
(Gr. P-12)
45 Credits

Goal:
To prepare effective teachers with strong proficiency skills, adequate to professional preparation, and positive attitudes toward their students and the subject area they will teach.

Requirements:
- SP 201, 202 Intermediate Spanish I, II
- SP 203, 204 Intermediate Expression I, II
- SP 315, 316 Advanced Oral and Written Expression I, II
- SP 363, 364 Contemporary Hispanic Culture and Civilization I, II
- SP 385, 386 Hispanic Civilization I, II
- ED 342 Integrated Teaching Methods P-12
- ED 343 Field Experience for ED 342

Choose four from the following:
- SP 321, 322 Readings in Modern Hispanic Literature I, II
- SP 365 Spanish for Business
- SP 367 The Spanish Classic Period
- SP 473, 474 Cervantes and the Masterpieces of Spanish Literature I, II

See EDUCATION for Professional Education Requirements.

SPANISH COURSE OFFERINGS

SP 101, 102 Basic Spanish I, II 4, 4 cr.
Essentials of the language for understanding, speaking, reading, writing.

SP 191, 192, 193, 194 Selected Topics 1-3 cr.

SP 195, 295, 395, 495 Cooperative Education 1-6 cr.
On-the-job experience using Spanish as a tool; hours and credits to be arranged with the department.

SP 201, 202 Intermediate Spanish I, II 3, 3 cr.
Oral expressions, short readings in literature, culture, and other areas of interest, grammar review, creative activities. Prerequisite: SP 102 or 2 years of high school or equivalent proficiency.

SP 203, 204 Intermediate Oral Expression I, II 3, 3 cr.
Practical active vocabulary building, oral expression areas of contemporary interests, use of authentic recordings. Prerequisite: SP 201 or 3 years of high school Spanish or demonstrated proficiency.

SP 271, 371 Workshops 1-3 cr.

SP 315, 316 Advanced Oral and Written Expression I, II 3, 3 cr.
Intensive writing practice, finer points of syntax, and creative work. Grammar review as needed. Frequent discussion, vocabulary building, individual work in phonetics.

SP 321, 322 Readings in Modern Hispanic Literature I, II 3, 3 cr.
Representative works by contemporary Latin American writers, opportunity for creative imitation through written assignments.

SP 334 Latin American Literature 3 cr.
Readings of the outstanding Latin American writers whose works have influenced the literary and philosophic thought of both hemispheres.

SP 363, 364 Contemporary Hispanic Culture and Civilization I, II 3, 3 cr.
Analysis of social and political systems in Latin America. Development, foreign department, basic industries, the role of international corporations, relations of dependence and alterations in daily life. One unit analyzes modern Spain, its political structures, lifestyles, etc. Course is taught in Spanish. Prerequisite: SP 202 or equivalent.

SP 365 Spanish for Business 3 cr.
An introduction to Spanish business terminology, documents and procedures. Students analyze commercial documents and use Spanish in oral and written business communication. Prerequisite: SP 202 or the equivalent.

SP 367 The Spanish Classic Period 3 cr.
Selected readings from El Cid to Calderon.

SP 385, 386 Hispanic Civilization I, II 3, 3 cr.
Spanish and Latin American life and culture from its earliest forms to the present. Course is taught in Spanish.
SP 391, 392, 393, 394 Selected Topics 1-3 cr.

SP 420 Introduction to Professional Translating 3 cr.
General principles, procedures, theory, and tools for translating; some basic principles of linguistics. Practice in translating from Spanish to English.

SP 430 Practicum: Literary and Technical Translating 3 cr.
Practice in translating from Spanish to English and from English to Spanish. Approximately one quarter is devoted to literary texts and one quarter to technical or scientific topics, depending on the professional needs of the students enrolled.

SP 440 Commercial Translating 3 cr.
Practice in translating documents, papers, and letters used in international trade. Spanish to English and English to Spanish. Some computing skill is necessary.

SP 473, 474 Cervantes and the Masterpieces of Spanish Literature I, II 3, 3 cr.
Intensive study of the Quijote and the Novelas Ejemplares, as well as representative work of other Spanish literary masters.

SP 491, 492, 493, 494 Independent Study 1-3 cr.
An opportunity for qualified and capable students to work on special topics by independent reading, study, and research in Spanish. Hours and credits arranged by the department.

MUSIC

Although not offered as a major or minor program of study at Notre Dame College, music is integral to our liberal arts curriculum. The study of music not only introduces students to the culture of various peoples, especially in the Western world, but also stimulates both creative and critical thinking.

Course Outcomes:
Students electing music courses will:
1. Perform and/or attend performances of a variety of music representing both classical and contemporary styles.
2. Use musical vocabulary accurately to describe musical styles and performances and to critique musical events.
3. Recognize and respect the artistic creativity and professional discipline of composers, performers, and various types of artists.

General Education Requirement in Fine Arts
This requirement is satisfied by completing any of the following music courses: MU 106, MU 160, MU 211, MU 212, MU 213, MU 214, MU 320.

COURSE OFFERINGS

MU 103, 104 General Musicianship and Theory 3, 3 cr.
Fundamentals of music theory, ear training, sight singing, form and analysis, and written keyboard harmony.

MU 105, 205 Performing Groups 1-3 cr.
Vocal and/or instrumental groups rehearsing weekly and performing at least once a semester.

MU 106 Performing Groups 1.5 cr.
Vocal and/or instrumental groups rehearsing weekly and performing at least once per semester. In addition, the student will write a research paper. Must be taken two times to fulfill fine arts general education requirement.

MU 160 Music Appreciation 3 cr.
A historical overview of the role and function of music in Western civilization. Emphasis on listening. Field trips to hear live concerts are part of the course content. Ability to read music notation is not necessary for this course.
MU 191, 192, 193, 194 Selected Topics 1-3 cr.

MU 195, 196 Independent Studies: Applied Music
Private lessons available in piano, voice, or instruments, for credit or non-credit. Credit amounts arranged and granted on the basis of an evaluated performance at the end of the semester. Other special projects in music may be arranged.

MU 211, 212 Music History I, II 3, 3 cr.
Survey of the development of Western music from ancient to modern times, with emphasis on listening skills.

MU 213 Jazz Appreciation 3 cr.
A development and an understanding of jazz as a uniquely American art form through listening to recorded and live performances. Emphasis on aural perception.

MU 214 Music Now and Then 3 cr.
An exploration of various contemporary musical styles and forms as they are traced back to their historical ("classical") roots. Attendance at live concerts, including one off-campus performance, is required.

MU 320 Music and Art: Historical Survey 3 cr.
A survey of music and visual art forms from the perspective of basic elements such as line, harmony, texture, timbre, and form. Includes the development of artistic styles in music and art through various historical periods. Attendance at live concerts and visits to the art museum are an integral part of the course.

MU 391, 392, 393, 394 Selected Topics 1-3 cr.

MU 395, 396 Independent Study: Applied Music

NURSING

The mission of the Bachelor of Science in Nursing (BSN) Program is derived from the institutional mission statement of the College. The mission of the Notre Dame College Nursing Program is to prepare a professional nurse who is responsive to the health needs of a diverse global society.

This mission is implemented through fostering personal, professional and social responsibility within the context of a values based faith environment. Liberal arts and the sciences serve as the foundation for the professional education and the development of core competencies. The baccalaureate nursing program provides unique opportunities for service to meet the health needs of society, especially the vulnerable and underserved. International educational opportunities are also integrated throughout the program to prepare students for practice in a rapidly changing global health care environment. The baccalaureate nursing program prepares individuals for practice in a variety of health care settings and serves as a foundation for further graduate education.

Tracks:
Multiple entry levels for the program are designed to meet the needs of the life-long learner. The Bachelor of Science in Nursing Program has two tracks. The Pre-Licensure Track is designed to prepare the student to become a professional nurse. Upon completion of the program the graduate is eligible to take the National Council Licensing Exam (NCLEX-RN®) to become a registered nurse.

The second track is the RN to BSN Post-Licensure Track. This track is designed for the registered nurse (RN) who has a diploma in nursing or an Associate of Science degree with a major in nursing and who wants to complete their Bachelor of Science in Nursing degree.

Program Outcomes:
Graduates of the BSN Program will:
1. Synthesize concepts and theories from the liberal arts, sciences and the discipline of nursing to promote the health and well being of individuals, groups, communities and populations.
2. Communicate effectively using oral, written and other forms of information technology.
3. Demonstrate competence in technological skills used in professional nursing practice.
4. Apply critical thinking to evaluate alternatives and make decisions that effect the health and well-being of self and others.
5. Integrate personal and professional values to practice within the legal and ethical standards of the profession.

6. Respect human diversity in the provision of health care to populations of different gender, socioeconomic, religious or cultural traditions.

7. Demonstrate leadership and management in the delivery of health care within complex adaptive systems.

8. Support a commitment to life-long learning for personal and professional development.

9. Use evidence-based practice in the provision of health care services for individuals, groups, communities and populations in a variety of settings.

10. Participate in political processes that influence the economic, legal and social direction of health care policies.

ADMISSION TO THE BSN PROGRAM

Nursing Program admission is open to all students who demonstrate that they have the intellectual ability, emotional stability and personal qualifications needed to be a professional nurse. Students wishing to apply to the BSN Program must first be admitted to the College. This is a separate application process conducted through the Admissions Office.

Prerequisites needed for admission to the BSN Program are:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EN100/101</td>
<td>Basic Principles of Expository Writing (6 cr.)</td>
<td></td>
</tr>
<tr>
<td>EN 110</td>
<td>Advanced Composition: Expository Writing (3 cr.)</td>
<td></td>
</tr>
<tr>
<td>CH 106/107</td>
<td>Principles of Inorganic Chemistry/Lab (4 cr.)</td>
<td></td>
</tr>
<tr>
<td>CH 116/117</td>
<td>Principles of Organic and Biological Chemistry/Lab (4 cr.)</td>
<td></td>
</tr>
<tr>
<td>MA110</td>
<td>Intermediate Algebra (3 cr.)</td>
<td></td>
</tr>
<tr>
<td>BI 204/BI 205 &amp; BI 206/BI 207</td>
<td>Human Anatomy &amp; Physiology I &amp; II/Lab (8 cr.)</td>
<td></td>
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<tr>
<td>PY 201</td>
<td>General Psychology (3 cr.)</td>
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</tbody>
</table>

The nursing application process is competitive with preference given to current Notre Dame students and graduates of the Notre Dame Associate of Science in Health Sciences Program. Not all qualified students may be accepted into the program.

Current Notre Dame College students may apply to the Pre-Licensure Track of the BSN program Spring semester for entry beginning the following academic year. Students applying to the nursing program must:

1. Have a cumulative grade point average (GPA) of 2.75 or higher (grades earned over 10 years ago will not be used to calculate the GPA),

2. Complete the course prerequisites for the nursing program with a grade of C or greater,

3. Submit ACT or SAT scores (students who have not taken SAT or ACT scores must take the Nursing Entrance Test (NET) OR Test of Essential Academic Skills (TEAS),

4. Submit a 1-2 page essay describing their personal/professional goals, and

5. Provide documentation of physical and emotional ability to meet the requirements of the program from their health care provider.

Registered Nurse (RN) students in the Post-Licensure RN to BSN Track must also show evidence of graduation from a pre-professional nursing program accredited by the National League for Nursing Accrediting Commission (NLNAC) and evidence of current valid licensure as a registered nurse in the state of Ohio. RN students must meet the same requirements as traditional students in the generic track, with the exception of the ACT/SAT requirement.

Conditional acceptance for students in the Pre-Licensure track may be given for those students who are currently enrolled in nursing program prerequisites at the time of application, based on mid-term grades. All nursing course prerequisites must be completed with a grade of C or better and all other requirements must be met for full acceptance into the program. Students in the Pre-Licensure Track will be notified of final acceptance into the program once grades are received for Spring semester and the cumulative GPA is determined. Students in the RN to BSN Post-Licensure Track may be given conditional acceptance pending completion of nursing program prerequisites.

Physical and emotional capabilities required for applicants to the Nursing Program include (but are not limited to):

- Visual acuity with or without corrective lenses to read small print on medication labels and/or physician’s orders, calibrate equipment, perform physical assessment and recognize when a patient is in imminent danger.
• Hearing ability with or without auditory aids to understand the normal speaking voice without seeing the person’s face, hear emergency alarms, student/patient’s calls for help, call bells, and stethoscope sounds originating from body systems.
• Physical ability to perform cardiopulmonary resuscitation, pulling, pushing, stooping and kneeling.
• Ability to communicate effectively in verbal and written form.
• Manual dexterity and fine motor skills, including the ability to draw up medication in a syringe.
• Emotional stability to function in stressful situations and to accept personal responsibility and accountability for his/her actions.

All Students must have a completed criminal record and background check prior to beginning any clinical experience. Students must assume all costs associated with the background checks/ fingerprinting. The results of the criminal background check may impact the student’s ability to complete the clinical component of the program. Clinical affiliating agencies may refuse access to clinical sites for students with a criminal record. The results of the background check are used, along with other components of the student’s academic and personal record, to determine the ability of the person to fulfill the requirements of the program.

In accordance with section 504 of the Rehabilitation Act of 1973 Notre Dame College will make reasonable accommodations to assist a student with a disability to advance through the program.

Readmission/Re-Enrollment Policy:
A student in the baccalaureate program who interrupts enrollment in the nursing sequence of courses for any reason, must apply for re-enrollment. Re-enrollment in nursing courses is based upon a space available basis and cannot be guaranteed. If a student has not been enrolled in classes at Notre Dame College for one calendar year, the student must apply for readmission to the College and the nursing program. Students seeking readmission are expected to follow the same admission process as those prospective students who will be attending Notre Dame College for the first time. The student must meet current College and nursing program curricular and graduation requirements at the time of readmission to the program, regardless of the number of credits earned under a previous catalog.

Transfer and Advanced Standing:
Students transferring into the Bachelor of Science in Nursing Program must abide by the College policies regarding transfer students/credits. Not all qualified transfer students may be accepted into the program. The best qualified applicants will be selected each year based on the number of seats available. All courses transferred into the Nursing Program, including nursing courses, must have a grade of C or greater for transfer credit to be granted.

Faculty of the Notre Dame Bachelor of Science in Nursing Program will evaluate content of nursing courses to determine if the course is comparable to one offered in the Notre Dame Bachelor of Science in Nursing Program. Students may be asked to submit course syllabi or other evidence for evaluation of transfer credit. Nursing courses completed more than five years before admission may not transfer and may need to be repeated. Students may be required to take proficiency tests in identified subjects to validate learning.

The transfer policy for students enrolled in the Notre Dame College Associate of Science in Health Sciences Program that wish to transfer into the Notre Dame College Bachelor of Science in Nursing Program is provided in the BSN Student Handbook.

Transfer students must submit a nursing application to the Bachelor of Science in Nursing Program and must meet all prerequisites for entry into the Program.

Any student admitted to the Nursing Program with advanced standing must meet current college and nursing program curriculum and graduation requirements at the time of admission to the program.

Graduates of the Associate of Science in Health Sciences Program who wish to articulate into the Bachelor of Science in Nursing Program must possess current valid licensure as a registered nurse in the state of Ohio. Credit for the following courses taken in the Associate of Science in Health Sciences Program will also apply toward meeting the requirements of the Bachelor of Science in Nursing: EN 100/101 OR EN 110, CA 100, BI 204/205, BI 206/241, CH 106/107, HP 215, PY 201, SO 201, PY 251, PH 380, EN 261 (or other English literature course taken at Notre Dame) and TH Theology course (must include a study of scripture). Credit for the following Bachelor of Science in Nursing courses will be awarded upon completion of the NR 300 course: NR 215, NR 216, NR 225, NR 320, NR 330, NR 340, NR 461.
Grading:
A minimum cumulative GPA of 2.5 is required for all students in the baccalaureate nursing program.

A minimum grade of “C” is required in all nursing prerequisites, support courses, and nursing courses in the nursing major. Students must achieve a minimum exam average of 73% in each nursing course and complete all course requirements, as specified in the syllabus, in order to satisfactorily pass the nursing course with a grade of C or greater. If a student achieves less than a 73% exam average in a nursing course, the student must repeat both the theory and clinical component (if included) of the nursing course. Extra credit points achieved in a course may not be applied toward the exam average.

If a nursing course has a clinical component, students must achieve a satisfactory rating in the clinical component, as well as meet all other course requirements, in order to successfully pass the course. If a student achieves less than a satisfactory rating in the clinical component of a nursing course, a grade of F will be recorded for the course. Prerequisite courses, support courses and nursing courses may be repeated only once if a grade less than C is achieved.

Progression:
Students must attain a final semester grade of C or better in all nursing prerequisites, support courses and required nursing courses; must have a 2.5 cumulative GPA; and must achieve a satisfactory clinical rating for their clinical experience to progress in the program.

Registered nurse students must maintain a current, valid license as a registered nurse in the state of Ohio throughout their enrollment in the program.

Students will be placed on academic probation in the nursing program if the cumulative GPA is less than 2.5 at the end of any semester in the program. If the student does not show progress or raise the GPA to 2.5 or above by the following semester, the student will be dismissed from the program.

Graduation:
Students in the Pre-Licensure Track must demonstrate satisfactory performance on a comprehensive exit examination as described in the Nursing Division Student Handbook in order to graduate from the program. All candidates for the Bachelor of Science in Nursing Degree must meet the requirements listed below. The student shall
• have earned a minimum of 129 semester hours of credit
• have successfully completed courses fulfilling the General Education Requirements
• have successfully completed the courses fulfilling the requirements of the baccalaureate nursing major
• have maintained a cumulative 2.5 GPA
• have attended Notre Dame College for at least one year
• have completed a minimum of thirty-two (32) semester credits of course work at Notre Dame College, including a minimum of sixteen (16) semester credits of nursing courses
• have at least 45 credits of upper-biennium (300-400) courses.

Pre-Licensure Track Requirements
Prerequisites (25-28 Credits):
BD 204/205 Human Anatomy & Physiology I with Lab
BD 206/207 Human Anatomy & Physiology II with Lab
CH 106/107 Principles of Inorganic Chemistry with Lab
CH 116/117 Principles of Organic & Biological Chemistry with Lab
EN 100/101 Basic Principles of Expository Writing OR
EN 110 Advanced Composition: Expository Writing
PY 201 General Psychology
MA 110 Intermediate Algebra

Support Courses (16 Credits):
BI 240/241 General Microbiology with Lab
HP 216 Nutrition in Health & Disease
MA 221 Statistics
PY 251 Lifespan Development
SO 201 Introduction to Sociology

NURSING MAJOR
63-64 Credits
NR 200 Health Assessment Across the Lifespan
NR 215 Foundations of Nursing I
NR 216 Foundations of Nursing II
NR 225 Pharmacology & Pathophysiology
NR 310 Evidence Based Practice
NR 320 Adult Nursing Practice
NR 330 Mental Health Nursing
NR 340 Family Nursing
NR 410 Health Care Policy in Complex Adaptive Systems
NR 420 Community/Populations Nursing Practice
NR 430 Nursing Care of Adults/Families with Complex Health Alterations
NR 440  Professional Issues
NR 450  Gerontology
NR 460  Health Care Leadership/Management
NR 461  Professional Practicum

Nursing Elective (2-3 Credits), Select one:
NR 470/471  Complementary/Alternative Health
NR 472/473  Selected Topics in Nursing
NR 474/475  International Nursing in a Developing Country

Post-Licensure RN to BSN Requirements:
A Registered Nurse (RN) student who is a graduate of a nursing program accredited by the National League for Nursing Accrediting Commission (NLNAC) will receive a minimum of 31 semester credits for previous nursing courses. These credits will be awarded upon completion of the NR 300 Professional Transitions course.

RN students who submit evidence of current certification in gerontology from the American Nurses Credentialing Center (ANCC) will receive credit by examination for NR 450. This credit will be applied upon completion of the program.

Prerequisites (25-28 Credits):
BI 204/205  Human Anatomy & Physiology I with Lab
BI 206/207  Human Anatomy & Physiology II with Lab
CH 106/107  Principles of Inorganic Chemistry with Lab
CH 116/117  Principles of Organic & Biological Chemistry with Lab
EN 100/101  Basic Principles of Expository Writing OR
EN 110  Advanced Composition: Expository Writing
PY 201  General Psychology
MA 110  Intermediate Algebra

Support Courses (16 Credits):
BI 240/241  General Microbiology with Lab
HP 216  Nutrition in Health & Disease
MA 221  Statistics I
PY 251  Lifespan Development
SO 201  Introduction to Sociology

Nursing Major (32-33 Credits):
NR 200  Health Assessment Across the Lifespan
NR 300  Professional Transitions
NR 310  Evidence Based Practice
NR 410  Health Care Policy in Complex Adaptive Systems

NR 420  Community/Populations Nursing Practice
NR 450  Gerontology
NR 460  Health Care Leadership/Management in Complex Adaptive Systems
NR 464  RN to BSN Capstone Practicum

Nursing Elective (2-3 Credits), Select one:
NR 470/471  Complementary/Alternative Health
NR 472/473  Selected Topics in Nursing
NR 474/475  International Nursing in a Developing Country

COURSE OFFERINGS
Level I (Sophomore)

NR 200  Health Assessment Across the Lifespan  3cr.
Didactic, and lab with 2 class hours/week, 3 lab hours/week.
A systems approach is used to provide students with a comprehensive approach for basic health assessment of the individual. Cross cultural approaches for interviewing and communication principles are presented. Collection of data and identification of patterns and relationships provide a foundation for personal health assessment and the nursing care planning process. Developmental theories across the lifespan serve as a framework for assessment of normal growth and development. Fulfills Health & Wellness General Education requirement. Prerequisites: Admission to the Bachelor of Science in Nursing Program, BI 240/241 and PY 251 (or concurrent).

NR 215  Foundations of Nursing I  4 cr.
Didactic, lab, clinical with 2 class hours/week, 3 lab hours/week and 45 hours clinical/semester. Introduction to the theoretical foundations of nursing and conceptual framework of the curriculum. Concepts presented include critical thinking and the nursing process, basic health care needs of the individual, diversity, systems theory, communication, and evidence based practice. The process of values clarification is discussed. Legal, professional and ethical standards of the profession are introduced. Prerequisites: Admission to the Bachelor of Science in Nursing Program, BI 240/241 (or concurrent).
NR 216 Foundations of Nursing II

Didactic, lab, clinical with 2 class hours/week, 3 lab hours/week and 45 hours clinical/semester. Builds on concepts, knowledge and skills introduced in Foundations of Nursing I. Establishes a foundation for safe nursing practice in meeting basic care needs for individuals with common disruptions of body systems. Presents scientific principles and evidence base for skill development, including medication administration. Opportunities for self mastery and application of skills are provided in a variety of settings. Use of critical thinking in application of skills is stressed. Prerequisites: NR 200; NR 215; NR 225 (or concurrent).

NR 225 Pharmacology & Pathophysiology

Didactic with 3 class hours/week. Pharmacokinetics and clinical applications of a variety of classes of drugs based on pathophysiological alterations and clinical concepts are presented. Drug interactions with living systems are examined. Role of the nurse is discussed, including legal and ethical issues related to medication administration. Opportunities to develop skill in drug calculations are provided. Prerequisites: NR 215, BI 240/241.

Level II (Junior)

NR 300 Professional Transitions

Didactic with 3 class hours/week. Introduction to the philosophy and curriculum framework for BSN completion track. Theoretical foundations of nursing practice are presented. Systems theory and complexity theory are introduced. Process of values clarification is introduced. Current nursing issues are discussed. Prerequisite: Valid Ohio license as a registered nurse; evidence of satisfactory completion of an accredited diploma or Associate of Science in Nursing program; admission to the Post-Licensure RN to BSN Track.

NR 310 Evidence-Based Practice

Didactic with 3 class hours/week. Sources, levels and strength of evidence for best practice are reviewed. Process for critiquing evidence is discussed. Methods and tools for implementation of evidence-based practice to achieve optimal patient outcomes are examined. Relationship of health care policy to evidence-based practice is discussed. Prerequisites: NR 216, NR 225; MA 221 (or concurrent); NR 300 (or concurrent) for students enrolled in the Post-Licensure RN to BSN Track.

NR 320 Adult Nursing Practice

Didactic, clinical with 5 class hours/week and 90 hours clinical/semester. Study of health alterations of the adult through the lifespan. Application of critical thinking and the nursing process in the care of adults with short-term acute and/or chronic health alterations. Interrelationships of body systems are emphasized as well as interrelationships with other complex adaptive systems. Application of strategies for health promotion, maintenance and restoration of the adult. Prerequisites: HP 216, NR 216, NR 225, NR 310 (or concurrent).

NR 330 Mental Health Nursing

Didactic, clinical with 3 class hours/week and 45 hours clinical/semester. Focus is on promotion and maintenance of mental health and care of individuals, and groups experiencing mental health alterations. Emphasis is placed on vulnerable populations and the context in which mental health alterations occur. Health care policy implications of mental health issues are discussed. Service-learning opportunities are provided with vulnerable populations experiencing or at high risk for mental health alterations. Prerequisites: NR 310, NR 320.

NR 340 Family Nursing

Didactic, clinical with 3 ½ class hours/week, 1 ½ lab hours/week and 90 hours/semester clinical. Family assessment and diversity of family styles. Issues related to providing health care services for vulnerable family populations are compared with issues related to healthy families. Strategies to minimize health risk and to promote health and well being of the family are discussed. Care of parents, including pregnancy, and children from newborn through adolescence are presented in the context of a childrearing family as a complex adaptive system. Service learning opportunities are provided with vulnerable family populations. Prerequisites: NR 310 and NR 320.
NR 410 Health Care Policy in Complex Adaptive Systems 3 cr.
Didactic with 3 class hours/week.
Analyses of economic, legal and social factors impacting health care policies. Discussion of relationship between emerging social issues/trends and health care disparities. Discussion of social justice and equity in access and delivery of health care services. Opportunities are provided to participate in political processes impacting nursing and health care policy. Prerequisites: NR 330, NR 340 for students enrolled in the BSN Pre-Licensure Track. NR 300 (or concurrent) for students enrolled in the Post-Licensure RN to BSN Track. Open to non-nursing majors with permission of instructor.

NR 420 Community/Populations Nursing Practice 5 cr.
Didactic, clinical with 3 class hours/week and 90 hours clinical/semester.
Introduces concepts and strategies to promote culturally sensitive care for communities and populations. Diversity and culture are examined in relation to social systems and patterns of interconnected relationships. Epidemiological concepts are integrated throughout. Examines the role of the nurse in caring for communities/populations. Emergency preparedness and bioterrorism are introduced. Collaboration and coordination with community members and agencies is emphasized. Fulfills General Education Cross-Cultural requirement. Prerequisites: NR 330, NR 340 and NR 410 (or concurrent) for students enrolled in the BSN Pre-Licensure Track. NR 300 (or concurrent) for students enrolled in the RN to BSN Track.

NR 430 Nursing Care of Adults/Families with Complex Multisystem Health Alterations 5 cr.
Didactic, clinical with 2 ½ class hours/week, 3 lab hours every other week and 90 clinical hours/semester.
Application of critical thinking and use of the nursing process with adults/families experiencing complex, multisystem health alterations. Role of technology in the assessment and management of acutely ill adults is discussed. Prerequisites: NR 330, NR 340.

NR 440 Professional Issues 3 cr.
Didactic with 3 class hours/week.
Analyses of economic, legal, historical and social issues affecting the practice of nursing and health care within complex adaptive systems. Discussion of the role of the nurse as a provider of care, a designer/manager/ coordinator of care and a member of the profession. Examines scope and standards for the nursing profession and ethical issues related to the practice of nursing. Emerging trends in practice, education and delivery of care are discussed. Law regulating the practice of nursing is reviewed. Prerequisites: Open to students enrolled in the BSN Pre-Licensure Track only; NR 330, NR 340.

NR 450 Gerontology 3 cr.
Didactic, Clinical/Service Learning with 2 class hours/week and 45 clinical/service learning hours/semester.
Study of theories of aging and systems impacting older adults. Literature, art and/or film are used as mediums to examine issues related to aging. Discussion of end-of-life concepts and theories. Examines responses of the older adult in health and illness from an interdisciplinary perspective. Prerequisites: NR 330 and NR 340 for students enrolled in the BSN Pre-Licensure Track; NR 300 (or concurrent) for students enrolled in the Post-Licensure RN to BSN Track; permission of instructor and PY 251 for non-nursing majors. Junior or senior status is required.

NR 460 Health Care Leadership/Management in Complex Adaptive Systems 5 cr.
Didactic, clinical with 3 hours class/week and 90 hours clinical/semester.
Exploration of leadership and management theories/concepts applied to the role of the nurse as a leader, manager and coordinator of care. Examines concepts and theories related to negotiation, conflict management, and delegation. Legal implications of documentation and delegation are emphasized. Strategies to improve cost, safety and quality of care, based on evidence-based practice, are applied within complex adaptive health care systems. Prerequisites: NR 430 for students enrolled in the BSN Pre-Licensure track. NR 300 (or concurrent) for students enrolled in the RN to BSN Track. Corequisite: NR 461 for students enrolled in the BSN Pre-Licensure Track.
NR 461 Professional Practicum 3 cr.
Seminar, Clinical with 1 class seminar hour/week and 90 hours clinical/semester.
Role development of the professional nurse. Prepares students for transition to practice as a professional nurse. Students develop an individualized program of study to integrate concepts/theories of the nursing program into their professional practice. Includes discussion of strategies for organization and time management. Prerequisites: Open to students enrolled in the BSN Pre-Licensure Track only; NR 410, NR 420, NR 430. Prerequisite or concurrent: NR 440, NR 460.

NR 464 RN to BSN Capstone Practicum 5 cr.
Didactic with one class hour/week, 2 class seminar hours/week and 90 clinical hours/semester. This course provides an integrated experience with opportunities to apply baccalaureate level nursing competencies. Role development of the baccalaureate nurse is stressed. Students develop an individualized program of study to integrate concepts/theories of the nursing program into their professional practice. The capstone includes the development, implementation and evaluation of a clinically focused project. Prerequisites: Open to students in the RN to BSN Track only; NR 300, NR 310, NR 410, NR 420, NR 460 (or concurrent).

NURSING ELECTIVES

NR 470/471 Complementary/Alternative Health 2 cr./3 cr.
Didactic with 2 class hours/week (2 cr.) An additional credit may be earned for service learning component. Introduction to use of complementary and alternative health modalities (CAM). Analysis of evidence base for selected CAM. Prerequisites: Junior or senior level status for nursing majors. Junior or senior status and HP 110 or 112 or equivalent for non-nursing majors.

OR

NR 472/473 Selected Topics in Nursing 2 cr./3 cr.
Didactic with 2 class hours/week (2 cr.) An additional credit may be earned for service learning component. Focus is a special topic related to nursing. Course is taught in seminar format. Topic for seminar to be announced. Prerequisites: Level II (Junior) or Level III (Senior) status in the nursing program.

OR

NR 474/475 International Nursing in a Developing Country 2 cr./3 cr.
Didactic with 2 class hours/week (2 cr.) An additional credit may be earned for service learning component. Comparison of health care systems in a developing versus developed country. Introduction to tropical and other diseases seen in developing countries. Cultural beliefs impacting health care are discussed. May include a travel abroad component. Fulfills General Education Cross-Cultural requirement. Prerequisites: Level II (Junior) or Level III (Senior) status in the nursing program.

PASTORAL THEOLOGY AND MINISTRY

The overall goal of the following pastoral ministry programs is to provide students with a basic background in systematic theology, sacred scripture, and ministry skills that will prepare them for parish type ministries in the Catholic Christian tradition.

BASIC CERTIFICATE IN PASTORAL MINISTRY

This program is designed for those who serve their parish as part-time or volunteer ministers. It provides a college level background in Catholic theology and pastoral skills.

Program Outcomes:
Students will:
1. Have a grasp of basic theological concepts in the areas of Scripture, liturgy, morality, ecclesiology, and Christian anthropology, bringing this knowledge when interacting with others in a parish setting.
2. Develop listening skills needed in a ministerial setting.
3. Understand the nature and parameters of their role as one engaging in pastoral ministry.

Required Courses:
PM 104 Hebrew Scriptures
PM 105 Christian Scriptures
PM 235 Counseling Skills for Pastoral Ministers
PM 301 Sacraments in Christian Life
PM 321 Principles of Morality and Moral Response
PM 332 The Nature of the Church
PM 334 Nature, Sin, and Grace
PM 335 Theology and Spirituality for Ministry

Note: All of these courses can be applied to the Advanced Certificate in Pastoral Ministry. Each of these courses is a two (2) credit course and may be taken for credit or audited.

ADVANCED CERTIFICATE IN PASTORAL MINISTRY

This program is for those who hope to pursue a career in pastoral ministry. The Advanced Certificate in Pastoral Ministry from Notre Dame College fulfills most of the academic requirements needed for pastoral ministry certification in the Catholic Diocese of Cleveland.
Program Outcomes:
Students will:
1. Demonstrate a solid grasp of Scripture, theology, the nature of ministry, and Christian anthropology
2. Be articulate in the areas of theology and spirituality with everyone with and for whom they minister
3. Apply ministerial skills in a pastoral setting
4. Respond in practical, supportive ways to the people they serve.

Required Courses:
Scripture
PM 104 Hebrew Scriptures
PM 105 Christian Scriptures
1 elective in Scripture (PM 324 The Gospels, PM 327 Acts and Letters, or an upper biennium theology course in scripture fulfill this elective requirement.)

Systematics
PM 221 Knowing Jesus Then and Now
PM 301 Sacraments in Christian Life
PM 311 Church History
PM 332 The Nature of the Church
PM 334 Nature, Sin, and Grace

Morality
PM 204 Introduction to Social Justice Ministry
PM 321 Principles of Morality and Moral Response

Pastoral/Ministerial Skills
PM 235 Counseling Skills for Pastoral Ministers
PM 240 Management Skills for Pastoral Ministers
PM 295 Cooperative Education for Pastoral Ministry
PM 335 Theology and Spirituality for Ministry (PM 335 is a required course for those not in the Catholic Diocese of Cleveland pastoral ministry program and an approved elective for those who are in the diocesan program.)
PM 346 Canon Law for Ministry
PM 365 Applied Moral Theology

Note: These courses, if taken for credit, may be applied towards a degree program at Notre Dame College. Each course is a 2 credit course, except PM 346 which is 3 credits.

ASSOCIATE DEGREE WITH A MAJOR IN PASTORAL MINISTRY
Advanced Certification Program courses taken for credit can be applied to an Associate Degree. See Associate of Arts Degree, pages 22-23 for other requirements.

BACHELOR OF ARTS DEGREE WITH A MAJOR IN THEOLOGY
Advanced Certification courses may be applied to a BA degree with a Theology Major. See Theology for more information.

COURSE OFFERINGS
PM 104 Introduction to the Hebrew Scriptures 2 cr.
Overviews the historical, literary and theological context out of which the scriptures developed. The basic skills needed to interpret the scriptures as well as major themes developed in their theology are covered.

PM 105 Introduction to the Christian Scriptures 2 cr.
Examines the context out of which the Christian scriptures developed, the coming of the Kingdom in the Person of Jesus Christ, and the literary history of the various books.

PM 204 Introduction to Social Justice Ministry 2 cr.
Gives a basic theological foundation of social justice ministry in scripture and the social teachings of the Church. Discusses the role of the Church in society as well as the prophetic and pastoral roles of the Christian minister in relating social justice issues to gospel values.

PM 221 Knowing Jesus Then and Now 2 cr.
Traces the formulation of doctrine about the nature of Jesus. Seeks to understand how the Church, beginning with the faith portraits of Jesus in the Gospels, has answered the Christological question, “Who do you say that I am?”

PM 235 Counseling Skills for Pastoral Ministers 2 cr.
Investigates the principles and types of pastoral counseling with special attention to the contemporary skills used in supportive ministry to the bereaved, elderly, sick, youth, and those in need of healing. Techniques of creative and active listening and available counseling resources in the community are stressed.
PM 240  Management Skills for Pastoral Ministers  2 cr.
Provides skills to enhance the efficiency and effectiveness of pastoral ministers. Topics such as strategic and financial planning, volunteer empowerment, office organization and time management are addressed.

PM 295  Cooperative Education for Pastoral Ministry  2 cr.

PM 301  Sacraments in Christian Life  2 cr.
Explores the concept of sacramentality. Discusses the historical and theological development and liturgical traditions of each of the seven sacraments. Emphasis is placed on the preparation for and the liturgical celebration of each sacrament. Special attention is given to the celebration of the Eucharist and to the Rite of Christian Initiation.

PM 311  Church History  2 cr.
Traces the major movements of the growth of the Church and its influence in the world from New Testament times through the Fathers, the Middle Ages, the Reformation, colonial expansion, and Vatican Council II. Some attention is given to the Church's approach to the modern world.

PM 321  Principles of Morality and Moral Response  2 cr.
Introduces morality in the Catholic tradition including sources and purpose of moral norms, understanding of the human person as morally responsible, and the function of conscience. Practical applications of moral principles to current issues will be illustrated through case study and discussion.

PM 324  The Gospels  2 cr.
Compares and contrasts the origins and themes of the four Gospels of the New Testament.

PM 327  Acts and Letters  2 cr.
Brings to life a picture of the church as it emerged in the first century.

PM 332  The Nature of the Church  2 cr.
Studies the nature of the Church as the sacrament of God's presence in history. Examines the Church experienced as institution, as community, as Catholic, renewing itself to minister to the modern world. Also addressed: ecumenical efforts and the vision of the Church articulated in the documents of Vatican II and beyond.

PM 334  Nature, Sin, and Grace  2 cr.
Studies and reflects upon what the Christian message of salvation teaches about our human nature, history, and destiny. Combines theological anthropology with a theology of grace to better understand how God interacts with human subjects and human subjects with their God.

PM 335  Theology and Spirituality for Ministry  2 cr.
Gives a theological, scriptural and psychological overview of the role, responsibility and spirituality of the pastoral minister. Discusses areas of focus such as family ministry, bereavement, evangelization, youth, the ill and elderly. Connects with current issues in ministry: collaboration, communication, ethics, and the spiritual nurturing of the minister.

PM 340  Adolescent Catechesis  1 cr.
Enriches the high school religion teacher with psychological principles and teaching methods based on the needs of adolescents.

PM 346  Canon Law for Ministry  3 cr.
Introduces Church law according to the Code of 1983. Focus is on general norms, structures, and application on the parish level.

PM 365  Applied Moral Theology  2 cr.
Discusses applications of ethical principles to current issues.
PHILOSOPHY

The Philosophy Department Mission: Philosophy courses at Notre Dame College challenge students to think critically about our world and the human condition, providing a strong foundation for a liberal arts curriculum. Philosophy is an important part of our liberal arts tradition because it directly fosters a life-long pursuit for truth, beauty and goodness.

Notre Dame College students are required to take two philosophy courses. All students are required to take the ethics course (PH 480) to learn how to analyze critical questions of right and wrong in our time, and to identify and apply various philosophical positions in response to these questions. Although the History of Western Philosophy course (PH 180) is recommended at the beginning of one’s college career, a student is free to choose among the various philosophy electives to satisfy the philosophy requirement.

Philosophical thinking can be applied in any life situation because it teaches general problem solving, clear and persuasive communication, and writing that is ordered, coherent and complete. For this reason, one can argue that a philosophy minor is an invaluable compliment to any academic discipline. Careers that are especially dependent on philosophy and philosophical thinking include law, politics, the sciences, theology, journalism, communication, management and education.

Program Outcomes:
1. Students will identify, comprehend, analyze and evaluate philosophical arguments in oral and written discourse.
2. Students will understand, analyze, interpret and apply major works in the areas of the History of Philosophy, Ethics and contemporary topics.
3. Students will develop and express philosophical positions using the insights of philosophers and other thinkers.

MINOR IN PHILOSOPHY

18 Credits

Requirements:
PH 180 History of Western Philosophy
PH 480 Current Ethical Problems and Positions
12 additional credits in philosophy courses.

COURSE OFFERINGS

PH 180 History of Western Philosophy 3 cr.
A study of the history of western philosophy which chronicles the major thinkers and their key thoughts. The history of philosophy is understood as an ongoing conversation which continues in our own day. The course sketches the main contours of the way in which the conversation has taken shape since its beginnings with the ancient Greeks.

PH 200 Critical and Creative Thinking 3 cr.
Thinking is both a skill and an art, with its own purposes, principles, strategies and precautions. This course is designed to develop and strengthen one’s thinking by exploring the creative processes involved in problem identification and solution, the role of argument formation and criticism, and finally, communicating one’s thinking. Both current events and timeless philosophical questions will be explored. Critical and Creative Thinking is a strong foundational course for all academic disciplines and majors.

PH 320 Philosophy of Person 3 cr.
A close look at human nature and personal identity. Questions like “Who am I, really?” and “How free am I?” will be explored, along with love and our relationship with the natural world. Study of both classical and contemporary authors. PH 180 recommended.

PH 340 Philosophical Perspectives on Woman 3 cr.
A survey of various notable models of female nature which have been expressed in the history of western thought, from the ancient period to the present. The latter part of the course will be devoted to readings in the feminist critique of these historical models, and will look at contemporary views of female nature. This course is an elective in the Women’s Studies minor. PH 180 recommended.

PH 355 Political Philosophy 3 cr.
A study of the major approaches to the questions surrounding the political nature of human beings. The key thoughts of the major political philosophers, both classical and contemporary, will be analyzed. PH 180 recommended.

PH 360 Philosophy of Art 3 cr.
An investigation into the nature of art. What is art? Is beauty subjective? What role should an artist play in society? These are a few of the timeless questions that will be explored. Students will also develop a language of art that will assist in defining their own aesthetic values.
PH 380 Bioethics 3 cr.
An investigation of ethical issues raised by technological advances in the health care sciences. Issues to be studied include the beginnings and endings of life, genetic research, organ transplants, reproductive technologies, the right to health care, and the allocation of scarce resources. In addition, the relation of humans to the life of the planet and to their more specific environment will be studied. PH 180 recommended.

PH 391, 392, 393, 394 Selected Topics 1-3 cr.

PH 480 Current Ethical Problems and Positions 3 cr.
A critical examination of the major approaches to ethics given to us by the history of philosophy. The contributions of Aristotle, Aquinas, Kant, and Mill are studied first from a theoretical perspective. These theories are then applied to a variety of ethical issues which face us today. The student is introduced to the world of both the theory and practice of ethics. PH 180 recommended. Junior status required.

PH 481, 482 Seminar 1-3 cr.
Research and reports on selected periods or areas of philosophy. Conferences as the instructor directs. Open to qualified students who have had introductory courses in philosophy. Hours and credit arranged by the instructor, with the approval of the division head.

PH 491, 492, 493, 494 Independent Study 1-3 cr.
An opportunity for qualified and capable students to do independent work in the field of philosophy. Topics, hours, and credits arranged by the instructor, with the approval of the division head.

PHYSICS

COURSE OFFERINGS

All laboratory courses must be taken concurrently with the corresponding lecture courses. A student must have the permission of the instructor to deviate from this policy. A student who withdraws from a lecture course may not continue the laboratory course except under unusual circumstances and with the permission of the instructor.

PS 150 Concepts in Physics 3 cr.
This course, intended for Middle Childhood Education students and non-science majors wishing to fulfill the science GER, will explore a wide variety of topics in physics, including the scientific method, linear and circular motion, Newton's laws of force, momentum, energy, electricity, and magnetism. Prerequisite: MA 110. Corequisite: PS 151.

PS 151 Concepts in Physics Laboratory 1 cr.
One three-hour laboratory period weekly.

PS 180 Basic Physics I 4 cr.
A general physics course covering the principles of mechanics and heat with emphasis on applications to biological systems. Includes a weekly problem/recitation session. Prerequisite or corequisite: MA 120.

PS 181 Basic Physics I Laboratory 1 cr.
One three-hour laboratory period weekly.

PS 182 Basic Physics II 4 cr.
A general physics course covering optics, electricity, magnetism, atomic and nuclear physics. Includes a weekly problem/recitation session. Prerequisite: PS 180, 181.

PS 183 Basic Physics II Laboratory 1 cr.
One three-hour laboratory period weekly.

PS 191, 192, 193, 194 Selected Topics 1-3 cr.

PS 200 College Physics I 4 cr.
Study of linear and angular kinematics and dynamics for point masses and systems of masses; conservation of momentum; simple harmonic motion. Includes a weekly problem/recitation session. Prerequisite or corequisite: MA 175.

PS 201 College Physics I Laboratory 1 cr.
One three-hour laboratory period weekly.
PS 202 College Physics II 4 cr.
Electricity, introduction to Maxwell’s equations, electromagnetic waves, introduction to optics. Includes a weekly problem/recitation session. Prerequisite: PS 200.

PS 203 College Physics II Laboratory 1 cr.
One three-hour laboratory period weekly.

PS 220 Earth Science 3 cr.
Study of the structure of the earth, rocks and minerals, continents and ocean basins, weather and climate, and stars and planets.

PS 221 Earth Science Laboratory 1 cr.
One three-hour laboratory period weekly.

PS 360, 362 Physical Chemistry I, II 3, 3 cr.
An integrated classical and quantum approach to thermodynamics, statistical mechanics, dynamics, atomic and molecular structure. Prerequisites: PS 200, 202; MA 176.

PS 361, 363 Physical Chemistry Laboratory I, II 1, 1 cr.
One three-hour laboratory period weekly.

PS 391, 392 Special Topics 1-3 cr.
An opportunity for students who meet the requirements to do independent studies.

PSYCHOLOGY

A student completing the major in psychology will be prepared for graduate-level work in clinical, experimental and/or applied psychology and for entry level positions in the mental health care field and/or working in behavioral research laboratories. Psychology coursework is also appropriate for students planning careers in education, law, nursing, business, criminal justice, and intelligence analysis.

Program Goals for the Psychology Major:
When students complete the psychology major they will be able to:
1. Characterize the nature of psychology as a discipline.
2. Understand and apply basic research methods in psychology including research design, data analysis and data interpretation.
3. Think critically and synthesize information that characterizes the discipline of psychology.
4. Understand and apply psychological principles to personal, social and organizational issues.
5. Value empirical evidence, tolerate ambiguity, act ethically and reflect the values that are the underpinning of psychology as a science.
6. Demonstrate competence in seeking information (academic peer-reviewed literature) and technological literacy (word processing, excel, PowerPoint).
7. Communicate effectively in written and oral form with emphasis on APA format for written communication.
8. Recognize, understand and respect the complexity of sociocultural and international diversity.
9. Develop insight into their own and other’s behavior and mental processes and apply effective strategies or self-management and self improvement.
10. Actively participate in their career planning and development.

PSYCHOLOGY MAJOR

49 Credits
Requirements:
A. Psychology Core:
PY 201 General Psychology
PY 222 Behavioral Science Statistics
PY 251 Lifespan Development
PY 307 Behavioral Science Research Methods
PY 325 Biopsychology
PY 400 Practicum
OR
PY 498 Senior Seminar
B. Two courses from each of the four areas of concentration:

1. Clinical/Counseling
   - PY 355 Psychology of Family Systems
   - PY 370 Psychology of the Abnormal
   - PY 375 Psychology of Personality
   - PY 406 Group Dynamics and the Problem Solving Process
   - PY 412 Counseling Theories and Practice

2. Psychology of Special Populations
   - PY 204 Educational Psychology
   - PY 253 Child Psychology
   - PY 254 Psychology of the Adolescent
   - PY 351 Adult Development and Aging
   - PY 255 Multicultural Psychology
   - PY 301 Psychology of Gender Differences
   - PY 378 Mental Health and Aging
   - PY 399 Developmental Psychopathology

3. Psychology as a Science
   - PY 340 Learning and Memory
   - PY 380 Cognitive Psychology
   - PY 425 Sensation and Perception

4. Social/Organizational
   - PY 210 Social Psychology
   - PY 235 Sport Psychology
   - PY 240 Management Principles
   - PY 260 Industrial/Organizational Psychology
   - PY 330 Health Psychology
   - PY 345 Organizational Behavior
   - PY 385 Psychological Tests and Measurements

C. Six additional credits in upper biennium Psychology electives:
   1. Any upper biennium courses from the four areas of concentration not used to fulfill requirement B.

PSYCHOLOGY MINOR

22 Credits

Requirements:

A. Psychology Core:
   - PY 201 General Psychology
   - PY 222 Behavioral Science Statistics
   - PY 307 Behavioral Science Research Methods
   - PY 375 Psychology of Personality

B. Three courses (9 credits) from any three of the four different areas of concentration

COURSE OFFERINGS

PY 201 General Psychology 3 cr.
This course provides an introduction to the science of human behavior and mental processes. Emphasis is placed on the principles, methods and theories of modern psychology. Major topics covered include research design, learning, memory, thinking, intelligence, personality, psychopathology and social psychology. (Program goals 1, 3, 4, 9)

PY 204 Educational Psychology 3 cr.
See description on page 68.

PY 210 Social Psychology 3 cr.
This course is an introduction to the psychological study of how thoughts, feelings, and behaviors of individuals are influenced by group settings. Students will learn social psychological methodology as well as the application of social psychology to historical and current events. The course will explore topics such as aggression, interpersonal attraction, attitude formation and change, conformity and obedience to authority. Prerequisite: PY 201. (Program goals 3, 4, 7, 8, 9)

PY 222 Behavioral Science Statistics 3 cr.
This course will provide instruction in the application of descriptive and inferential statistics to the analysis and interpretation of data in the social sciences with an emphasis on hypothesis testing. Students will develop skills in the communication of statistical information. Students learn theory and application of statistical hypothesis testing, learning to test for significance of relationships between variables and differences between groups in a variety of situations. Students will learn to clearly and accurately communicate findings and accurately interpret the presentation of statistical findings encountered in research. Prerequisites: PY 201, MA 110; MA 221 strongly recommended. (Program goals 1, 2, 3, 5, 6, 7)

PY 225 Multicultural Psychology 3 cr.
This course provides an introduction to theories and research in the study of psychosocial issues of racial, ethnic, and cultural groups. Students will examine the relationship of race, culture, and social class and discuss the research implications for the multicultural study of psychology. Students will learn major theoretical perspectives in multicultural psychology and begin to build cultural competence; a critical skill in the application of psychology in today’s world. Students will demonstrate skills through evaluation of research and application of new skills through critical writing and a comprehensive class project. Prerequisite: PY 201. (Program goals 3, 4, 7, 8, 9)
PY 235  Sport Psychology  
3 cr.
This course is an introduction to the psychological study of people and their behavior in sport environments. Emphasis will be on the mental skills associated with high-level performance in sport as well as in other areas of life. The course will address the question, “How can sportsparticipation contribute to a person's overall psychological health and well-being?” Prerequisite: PY 201. (Program goals 3, 7, 9)

PY 240  Management Principles  
3 cr.
See BU 240 for course description.

PY 251  Lifespan Development  
3 cr.
The course will provide an overview of current research and theories of human development from conception to death with an emphasis on physical, cognitive and social development. The student will be able to conduct theory evaluation and comparison, and be able to identify and evaluate contemporary and global aspects of development. (Program goals 1, 3, 4, 7, 9)

PY 253  Child Psychology  
3 cr.
This course will provide students with a thorough understanding of infant and child development. The course will cover child development research and the ways that such research can be used to enhance the lives of children and their families. Major child development theories will be discussed and provide the foundation for understanding the sequence of child development and the processes that underlie it. In addition, this course will highlight the impact of contact and culture on child development. (Program goals 1, 3, 7)

PY 254  Psychology of the Adolescent  
3 cr.
This course will provide students with knowledge about the biological, cognitive, and socioemotional processes that are characteristic of adolescence. The course will be a comprehensive overview of the history of the field of adolescent development and of current lifespan developmental issues pertinent to this field of study. Students will be familiarized with the various theories of adolescent development and the field of adolescent development research. Students in the course will be able to discuss the biological, cognitive, socioemotional and cultural aspects of the development of adolescent behavior. (Program goals 1, 3, 7)

PY 260  Industrial/Organizational Psychology  
3 cr.
This course will provide an introduction to the methods used by industrial/organizational psychologists to increase organizational effectiveness. The emphasis is on understanding employees, employee management relationships and behaviors. Topics include job analysis, employee selection and training, performance appraisal, job attitudes, workplace motivation, organizational culture and work environment. Prerequisite: PY 201. (Program goals 1, 3, 4, 6, 7, 8)

PY 301  Psychology of Gender Differences  
3 cr.
This course will provide an introduction to the study of the psychological differences and similarities between women and men. Students will examine gender-related beliefs, stereotypes, and behavior. In addition, they will study the evidence for male-female similarities and differences and understand the mutual links between gender roles and the structure of relationships. Students will demonstrate skills through personal reflection and critical writing and reading. Prerequisites: PY 201 and sophomore standing or departmental permission. (Program goals 3, 4, 7, 8)

PY 307  Behavioral Science Research Methods  
4 cr.
This course will provide students with an introduction to research methods most commonly used in the behavioral sciences. Also, emphasis will be placed on the ethical issues involved in human subject research. An important aspect of the course is getting students prepared to read academic, peer-reviewed journal articles and to write an APA formatted research proposal or research report. Prerequisites: PY 201 and PY 222. (Program goals 1, 2, 3, 5, 6, 7, 10)

PY 325  Biopsychology  
3 cr.
This course will introduce the student to the idea that behavior is controlled by neurophysiological processes. Three content areas covered in the course include: 1) an in-depth examination of neurons and the electrical and chemical events that underlie neural transmission, 2) the structure and function of the peripheral and central nervous systems and 3) the involvement of the central nervous system in various behavioral phenomena including learning and memory, drug addiction and consciousness. Students will demonstrate mastery of the material through written assessments geared toward the integration of the information provided in class as well as information from other primary sources. Prerequisite: PY 201. (Program goals 1, 3, 4, 5, 7)
PY 330 Health Psychology 3 cr.
This course explores the contributions of the discipline of psychology to the promotion and maintenance of health related issues. Topics include the biopsychosocial view of health, pain management, stress management, and the relationship between lifestyle and health maintenance. Prerequisite: PY 201. (Program goals 1, 3, 4, 9)

PY 340 Learning and Memory 3 cr.
This course introduces the student to theory and research in the area of learning processes and memory processes and systems. The course focuses on the historical movement of research and theory in the area of learning and memory from behaviorism to the cognitive revolution up to the more modern day research on the neurobiology of learning and memory. Prerequisites: PY 201 and PY 325. (Program goals 1, 2, 3, 4, 7)

PY 345 Organizational Behavior 3 cr.
See BU 345 for course description.

PY 351 Adult Development and Aging 3 cr.
(Program goals 3, 4, 7, 8, 9)

PY 355 Psychology of Family Systems 3 cr.
This course will provide a study of the full scope of family therapy including its history, the classic schools and the latest developments in the field. Students will understand and define key terms and relevant concepts and issues related to family therapy. The emphasis will be on clinical practice including clinical techniques and contemporary influences on the field. Students will acquire an understanding of the basic models of family therapy and apply specific models to analyze patterns of family interaction. In addition students will appreciate the complexities of how individual behavior affects the family system and how the family system affects the development of individuals within the family. Prerequisites: PY 201 and sophomore standing or departmental permission. (Program goals 1, 3, 4, 9)

PY 370 Psychology of the Abnormal 3 cr.
This course will provide an introduction to the definition and classification of abnormal behavior. In addition, the course will explore various theoretical approaches to the causes and treatments of psychopathology. Students will receive a comprehensive overview of the symptoms, demographic features, and typical progression of major forms of psychopathology. Additionally, they will address several constructs that enhance the study of human mental distress including: the importance of the context in which disordered behavior occurs, the connection between the mind and body, and the multiple causality of psychopathology. Prerequisite: PY 201 (Program goals 1, 3, 4, 9)

PY 375 Psychology of Personality 3 cr.
This course will assist students in understanding personality – both their own and others – through an understanding of the field of personality psychology. The course is designed to create a sense of the total functioning of the individual by understanding how the parts of personality interact to bring functioning about. In this course, the student will learn how to describe personality and the discipline of personality psychology. They will learn how to examine parts of personality through understanding its structural and dynamic nature. Personality development in children, adolescents, and adults will be examined. Prerequisites: PY 201 and sophomore standing or departmental permission (Program goals 1, 3, 4, 9)

PY 378 Mental Health and Aging 3 cr.
This course focuses on the nature and problems of old age, including change and stability associated with the aging process; mental health issues; assessment and treatment of emotional and organic brain disorders in later life and long-term care versus home-care issues. Students will gain knowledge of the issues that are germane to the area of aging and they will consider things they can do today to prevent or prepare for the issues and problems experienced in later life through the development of a plan for successful aging. This plan will include the students integrating the information learned in the course and developing plans not only for themselves but for others, based on a case study approach, in order to simulate a counseling/clinical role. Prerequisite: PY 201. (Program goals 3, 4, 7, 8, 9)

PY 380 Cognitive Psychology 3 cr.
This course provides the student with an introduction to research and theory on the nature of cognitive processes from an information processing perspective. The focus is on the processes used to transform, store, manipulate and retrieve information. A neurocognitive emphasis is given as well. Topics include attention, pattern recognition, memory and language. Students will do a mini-experiment in which they collect data, analyze and interpret the data and present the results of their research to the class. Prerequisite: PY 201. (Program goals 1, 2, 3, 6, 7)
PY 385 Psychological Tests and Measurements 3 cr.
This course provides a survey and evaluation of current psychological tests with a focus on the areas of personality testing, intelligence/achievement tests and neuropsychological test batteries. Test construction, reliability, validity and ethical issues will be addressed at length for all tests studied. Prerequisite: PY 201.
(Program goals 2, 3, 4)

PY 391, 392, 393 Selected Topics 3 cr.

PY 399 Developmental Psychopathology 3 cr.
This course provides an introduction to the definition and classification of abnormal behavior occurring from infancy through adolescence. The course will explore various contexts for development as well as models of the etiology of childhood psychopathology. Students will understand and identify psychological disorders and major theoretical approaches to the causes and treatment of psychopathology in children and adolescents. Prerequisites: PY 201 and PY 370. (Program goals 1, 3, 4, 9)

PY 400 Practicum 3 cr.
A capstone course for psychology majors. It is the supervised application of psychological principles and techniques in appropriate mental health settings. Prerequisites: must have senior standing or completion of most course requirements for the psychology major. Admission granted on an individual basis by the department chairperson. The psychology department chairperson must approve the practicum site before the student makes a commitment for the 75 hours. (Program goals 3, 7, 9, 10)

PY 406 Group Dynamics and the Problem Solving Process 3 cr.
This course will provide a study of the field of group dynamics. Students will incorporate classic and modern theory and research on group dynamics to deepen their understanding of basic group processes and essential concepts. Students will use their knowledge to enhance their own group skills and effectiveness. They will become familiar with group structure, communication and development. They will demonstrate understanding of conflict, group decision making and productivity. Prerequisites: PY 201 and junior standing or departmental permission. (Program goals 3, 4, 7, 8, 9)

PY 412 Counseling Theories and Practice 3 cr.
This course will provide a comprehensive overview of major approaches to counseling and psychotherapy including the therapeutic process, the client-therapist relationship, and specific techniques used in practice. The historical origins of theories will be examined in addition to the specific application of theory to counseling and other settings. Students will become knowledgeable about ethical, legal and professional issues in counseling practice. Prerequisites: PY 201 and junior standing or departmental permission. (Program goals 1, 3, 4, 7, 8, 9)

PY 425 Sensation and Perception 3 cr.
This course provides the students with an in-depth look at how the sensory systems (visual and auditory systems) and the brain transform physical stimuli into mental representations. The course will follow the physical stimulus of light or sound from the external world through the sensory organ and into the areas of the brain designed to process the information. Individual differences in perceptual processes are emphasized. A major component of the course is an analysis of a specific area of sensation and perception through a literature review and the writing of an APA formatted literature review. (Program goals 1, 2, 3, 6, 7)

PY 498 Senior Seminar 3 cr.
This course focuses on the integration of psychological methods and theories. Psychology majors, with faculty assistance, choose a major issue in psychology to investigate and discuss on an ongoing basis in seminar sessions. This work culminates in a major class presentation and theoretical paper written in APA format. Prerequisite: Departmental approval. (Program goals 1, 2, 3, 4, 5, 6, 7, 8, 9 and 10)
SOCIOMETRY

MINOR IN SOCIOLOGY
18 Credits

Requirements:
- SO 201 Introduction to Sociology
- SO 222 Problems of Contemporary Society
- SO 320 Marriage and Family in a Diverse Society

Plus 9 credits from upper biennium offerings in Sociology.

COURSE OFFERINGS

SO 201 Introduction to Sociology 3 cr.
This introductory course examines the science of social relationships and organizations, presents basic social concepts and examines the culture and complex functioning of humans in groups and institutions. Suggested as a prerequisite for all sociology courses.

SO 210 Social Psychology 3 cr.
See PY 210.

SO 215 Gender Roles 3 cr.
Examination of current perspectives on gender roles in American social institutions. Gender role socialization, development, and cultural variations.

SO 222 Problems of Contemporary Society 3 cr.
Examines major social problems facing contemporary American social institutions and explores alternative solutions.

SO 305 Minority Groups 3 cr.
An examination of diversity in the United States; historical antecedents; dynamics of assimilation, prejudice, and discrimination.

SO 310 Social Institutions 3 cr.
An overview of major American social institutions (economy, family, education, religion, politics) and an examination of their role in the formation and maintenance of society.

SO 320 Marriage and Family in a Diverse Society 3 cr.
The family as a social institution; history, current status, and evolution. Linkages between interpersonal dynamics and social structure. Multi-ethnic and cross cultural perspectives on relationships. Application of social theory to every day life.

SO 391, 392, 393, 394 Selected Topics 1-3 cr.

SO 410 Social Theory 3 cr.
Analysis of major historical and contemporary theories and their impact on the discipline of sociology.

SO 425 Conflict Management & Resolution 3 cr.
Discussion of sources and dynamics of conflict in interpersonal and group settings. Identification of conflict management strategies including mediation, and negotiation. Development of skills for conflict management and resolution.

SO 491, 492, 493, 494 Independent Study 1-3 cr.
THEATER

THEATER MINOR
21 Credits

Requirements:
TR 112  Oral Interpretation
TR 261  The Drama and Theater
TR 262  Modern Drama and Theater

One of the following:
EN 461  Shakespeare’s Comedies
EN 462  Shakespeare’s Histories and Tragedies

Two of the following:
TR 309  Acting and Directing
TR 313  Event/Play Production Apprenticeship
TR 374  Presentation Techniques
TR 395/495  Cooperative Education (3 cr. max.)

One of the following:
CA 201  Interpersonal Communication
CA 305  Film Studies
CA 323  Writing for the Non-Print Media
CA 324  Writing for Publication
CA 403  Public Relations
EN 318  Creative Writing
TR 381  Women Playwrights

COURSE OFFERINGS
* A college-level composition course is a prerequisite to theater literature courses.

TR 112  Oral Interpretation  3 cr.
Also listed as CA 212
Explores basic theory and practice in the art of communicating literature: prose, poetry, and drama. Selection, analysis, and performance are the primary areas of focus.

TR 261  The Drama and Theater  3 cr.
Also listed as EN 261, CA 261
Study of dramatic literature, acting, stage design, production, and theatrical styles and trends from the classical age of Greece to the middle of the nineteenth century. Recommended preparation for TR 262.*

TR 262  Modern Drama and Theater  3 cr.
Also listed as EN 262, CA 262
Study of dramatic literature, acting, stage design, production, and theatrical styles and trends from Ibsen to the present. Recommended preparation: TR 261.*

TR 309  Acting and Directing  3 cr.
Also listed as CA 309
Provides basic laboratory training in techniques of acting and directing through practical exercises with short scenes and plays. Work on voice and movement. Interpretation skills, performance analysis, and the planning and conducting of rehearsals are used to achieve an individual approach to acting and directing.

TR 313  Event/Play Production Apprenticeship  3 cr.
Also listed as CA 313
Offers practical experience in event and theatrical production. Includes class work and participation in the stages of an actual event or production. Hands-on activities are required of all students. All aspects of producing are explored, including research, design, promotion, execution, management and evaluation.

TR 374  Presentation Techniques  3 cr.
Also listed as CA 374
Practice in a variety of public speaking forms serves as focus: advanced work in the extemporaneous mode, as well as an introduction to manuscript, memorized, and impromptu styles. Experiences with special occasion speaking take students beyond the confines of the classroom into settings involving larger spaces, technical considerations, and other challenges.

TR 381  Women Playwrights  3 cr.
Also listed as EN 381
Analysis and discussion of the works of selected women playwrights of the twentieth century.*

TR 461  Shakespeare’s Comedies  3 cr.
Also listed as EN 461
Reading and analysis of Shakespeare’s comedies; study of comedy techniques and poetic development. Junior-senior standing required.*

TR 462  Shakespeare’s Histories and Tragedies  3 cr.
Also listed as EN 462
Reading and analysis of Shakespeare’s histories and tragedies; study of Shakespeare’s development as tragic dramatist and poet. Junior-senior standing required.*

TR 295, 395, 495  Cooperative Education  3 cr.
THEOLOGY

Students with a major in theology are prepared for employment in pastoral ministry or religious education as well as for graduate studies. The combination of theology and pastoral ministry courses adds a practical, service and justice-oriented focus that enriches students’ study of theology. Theology majors desiring to teach religion in high school consult with the Director of the Center for Pastoral Theology and Ministry for current licensing requirements in the Catholic Diocese of Cleveland.

THEOLOGY MAJOR

36 Credits

Program Outcomes:
Students with a theology major will:
1. Understand and appreciate scripture, doctrine, liturgy, and moral theology in the light of Vatican Council II
2. Be articulate spokespersons for critical thought in theological matters and for spiritual growth.
3. Apply theological knowledge in a specific ministerial setting.
4. Respond in practical ways to the needs of people and the earth.

Requirements:
TH 321 Old Testament Theology
TH 322 New Testament Theology
TH 327 Prayer and Spirituality
TH 410 Christian Moral Living
TH 420 The Jesus of History, The Christ of Faith
PM 301 Sacraments in Christian Life
PM 311 Church History
PM 332 Nature of the Church
TH 495 Cooperative Education

Plus additional credits in Upper Biennium Theology or Pastoral Ministry to total 36 credits. TH 450 is included in these 36 credits.

Pastoral Ministry courses with theology content fulfill theology requirements.

MINOR IN THEOLOGY

18 Credits

Requirements:
TH 150 Introduction to Theology
TH 321 Old Testament Theology
TH 322 New Testament Theology
TH 420 The Jesus of History, The Christ of Faith

Plus additional credits in Upper Biennium Theology to total 18. TH 450 is included in the 18 credits.

Courses taken through the Pastoral Ministry program, if in the content areas above, fulfill the requirements for a minor in theology. PM courses can also be taken as theology minor electives.

MINOR IN BIBLICAL STUDIES

18 Credits

Requirements:
TH 321 Old Testament Theology
TH 322 New Testament Theology
TH 420 The Jesus of History, The Christ of Faith

Plus additional credits in upper biennium Scripture courses to total 18 credits. TH 450 is not included in these 18 credits.

Courses taken through the Pastoral Ministry program, if in the area of Scripture, fulfill the requirements for a minor in Biblical Studies.

COURSE OFFERINGS

TH 150 Introduction to Theology 3 cr.
A broad course for students of all religious backgrounds. Students consider the experience of the sacred and the meaning of faith. The heart of the course is the study of the history of salvation through the texts of the Bible. Core Christian beliefs and the interpretation of the Bible as God’s word written in human language are also analyzed.

TH 191, 192, 193, 194 Selected Topics 3 cr.

TH 281, 282 Seminar 3 cr.

TH 327 Prayer and Spirituality 3 cr.
A practical course introducing students to spirituality and to ways of praying. Based on Christian tradition and the Bible, the course will also open the riches of prayer and meditation, sacred texts and spiritual giants in world religions. Students will reflect on their own spirituality and practice ways of praying. In short, they will learn how to care for their soul.

TH 321 Old Testament Theology 3 cr.
An historical, literary, and theological study of the Old Testament. Selected writings are studied in relation to the key themes of sacred history: creation, fall, promise, exodus, covenant, land settlement, Davidic kingship, prophecy, wisdom, law, and apocalypse. Students will also apply the wisdom of the biblical message to today’s world.
TH 322 New Testament Theology 3 cr.
New Testament writings in the context of the emerging Church, tracing the literary-historical evolution, societal influences, and themes of the Gospels, Acts, and the Pauline and Johannine writings. Students will also apply gospel wisdom to questions in their own lives.

TH 325 An Arts Approach to the Bible 3 cr.
An exploration of Hebrew and Christian scriptural themes, including creation, suffering and conversion, from two perspectives: literary forms in the Bible and also imaginative expressions in music, visual art, literature and film. This course aims to open up the meaning of biblical stories and to encourage an experience of the Sacred through the arts. No previous background in Scripture or the arts is necessary.

TH 370 Religions of the World 3 cr.
A survey of the major religions of the world in the light of the documents of Vatican II. Included are the teachings, practices and prayer of each religion, together with current developments.

A reading and literary analysis of select portions of the Pentateuch, treating theories of authorship, historical and literary settings and main themes, with special emphasis on the place of liturgy in the history of the ancient biblical peoples.

TH 373 The Writings: Judaeo Wisdom, Human and Divine 3 cr.
A study of the Wisdom Movement in Israel, as seen in the books of Job, Proverbs, Ecclesiastes, Sirach, Song of Songs, the Wisdom of Solomon and the Wisdom psalms. The focus is on the relevance of these texts to Christian living today.

TH 374 The Prophets: Spokespersons for God 3 cr.
A study of biblical prophecy from its origins to Malachi with special emphasis on its relation to established religion and government. Attention is given to an in-depth study of the literary forms and themes of the “major prophets,” Isaiah, Jeremiah, and Ezekiel, and selected “minor” voices.

TH 381 Pauline Writings: Life in Christ 3 cr.
A study of Pauline Christianity, its background of Jewish and Hellenistic influences, and its place in the early Church. Reading and analysis of selected passages of the Pauline and the deutero-Pauline letters highlight the great Pauline themes and theology as well as contrast the picture of Paul in the letters and in Acts.

TH 382 Synoptic Gospels and Acts: Different Faces of Christ and the Church 3 cr.
An in-depth reading and analysis of selected passages of Matthew, Mark, Luke, and Acts. Special attention is paid to the varying presentations of the Christian message, to literary structure and history, and to the theological concerns of the evangelists in their unique expressions of the traditions about Jesus.

TH 383 Johannine Writings: The Christology that Overtook the Church 3 cr.
A close reading of the Gospel of John and the Johannine letters to explore their sources, characteristics, motifs, theology, pedagogy, and relation to the synoptic gospels.

TH 391, 392, 393, 394 Selected Topics 1-3 cr.

TH 410 Christian Moral Living 2-3 cr.
A theological approach to Christian moral living which explores fundamental concepts such as personhood, freedom, and conscience, from the viewpoint of Scripture, Catholic tradition, and natural law. The Catholic perspective on issues relevant to students is also clarified.

TH 420 The Jesus of History, The Christ of Faith 3 cr.
A study of the central Christian faith-affirmation that Jesus Christ is truly and fully divine, and truly and fully human. The information provided by the Bible in the gospels and epistles is examined. The theological statements made by the early Councils of the Church are studied. The advances made in the study of the Bible during the twentieth century are employed to assist the students in their personal appropriation of the knowledge about the Jesus of history and the Christ of faith.

TH 450 Social Justice: Issues and Action 3 cr.
Fulfilling the Notre Dame mission, “to educate for global responsibility,” this course introduces students to the Christian principles of social justice and their biblical base. Students will apply these principles to issues such as world poverty, racism, sexism, and other justice issues. Students will then seek out forms of action that are supported by faith-based principles. Junior status required.

TH 491, 493, 494 Independent Study 1-3 cr.

TH 495 Cooperative Education 1-6 cr.
WOMEN’S STUDIES

Students who minor in Women’s Studies will explore women’s contributions, women’s experiences, and feminist theory and be able to integrate these insights into their academic major and their view of the world. Students interested in a Women’s Studies minor are encouraged to choose elective courses which complement their major fields of study and to discuss course selection with their academic advisor and with the director of the Women’s Studies Program.

WOMEN’S STUDIES MINOR
15 Credits

Program Outcomes:
Students with a minor in Women’s Studies will:
1. Be familiar with the history of women from prehistoric times to the present.
2. Appreciate the achievements of women in academics, in the arts, and in diverse areas of culture and morality.
3. Explore issues flowing from the social construct of gender.
4. Awaken women and men to reflect on their own sense of self and on interrelationships.
5. Prepare persons of competence and compassion for a more just and equitable society.

Requirements:
WS 301/HI 301 History and Themes of the Women’s Movement
3 cr.
A course aimed at exploring how women have shaped and are shaping their own lives and the world. It begins with a discussion of how gender expectations and roles are constructed by a society, and how these affect all women and men in that society. Students then consider the roles of women and men in Western culture from Paleolithic times to the present. The course includes other themes and issues relevant to students and to significant current events. Teaching is marked by collaboration, a key element in feminist methodology.

12 credits from the following:
AR 313 Women Artists
EN 381 Women Playwrights
EN 382 Women Writers
PY 301 Psychology of Gender Differences
SO 320 Marriage and the Family
PH 340 Philosophical Perspectives on Woman

Other courses designated as electives for the Women’s Studies minor may be offered as selected topics or seminars and will be announced in a timely fashion.
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