CATALOG 2007-2008

NOTRE DAME *College*

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 2007 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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2007-2008 Academic Calendar

FALL SEMESTER 2007

June 1	Late Registration for Returning Students
August 24	Last Day of Fall 2007 Registration
August 27	First Day of Instruction
August 27-August 31	Schedule Adjustment Period
August 31	Last Day of Add/Drop Week
September 3	Labor Day – **No Classes**
October 11-12	Fall Break – **No Classes**
November 2	Last Day to **Withdraw** from a Course with a "W"
November 15-16	Senior Priority Registration
November 19-20	Junior Priority Registration
November 21-25	Thanksgiving Break – **No Classes**
November 26-27	Sophomore Priority Registration
November 28-29	Freshman Priority Registration
December 7	Last Day of Instruction
December 10-13	Final Examination Period
December 14	Late Spring Registration for Returning Students
January 7, 2008	Grade Reports Issued

SPRING SEMESTER 2008

December 14, 2007	Late Registration for Returning Students
January 11	Last Day of Spring 2008 Registration
January 14	First Day of Instruction
January 14-18	Schedule Adjustment Period
January 18	Last Day of Add/Drop Week
January 21	Martin Luther King Day – **No Classes**
February 25-29	Spring Break – **No Classes**
March 20-24	Easter Break – **No Classes**
March 28	Last Day to **Withdraw** from a Course with a "W"
April 17-18	Senior and Junior Priority Registration
April 21-22	Sophomore Priority Registration
April 23-24	Freshman Priority Registration
April 30	All College Honors Convocation
May 2	Last Day of Instruction
May 5-7	Final Examination Period
May 10	Baccalaureate and Commencement
May 26	Grade Reports Issued
June 1	Late Fall Registration for Returning Students

WEEKEND COLLEGE (WECO) CALENDAR 2007-2008

Saturday, August 25, 9:00 a.m. – New Student Orientation

TERM I

August 24 – Preassignments

September 7-8
September 14-15
September 21-22
October 5-6
October 12-13
October 19-20

TERM II

October 19 – Preassignments
Tuesday, October 30 – New Student Orientation

November 2-3
November 9-10
November 16-17
November 30 - December 1
December 7-8
December 14-15

TERM III

January 2, 2008 – Preassignments
Saturday, January 5 – New Student Orientation

January 11-12
January 18-19
January 25-26
February 8-9
February 15-16
February 22-23

TERM IV

February 22 – Preassignments
Tuesday, March 4 – New Student Orientation

March 7-8
March 14-15
March 28-29
April 4-5
April 18-19
April 25-26

INQUIRIES

See our Home Page at **www.NotreDameCollege.edu**

Send e-mail 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

Registration, class schedules and acceptance of credits:
Office of Student Records, First Floor, Main Administration Building

Financial aid, scholarship and loan inquiries:
Office of Financial Aid, First Floor, Main Administration Building

Housing inquiries:
Office of Student Life, First Floor, Main Administration Building

Athletics inquiries:
Office of Intercollegiate Athletics, Keller Center

Academic advising:
Advising Center, First Floor, Main Administration Building

Career development, cooperative education, employment assistance:
Career Services Center, Ground Floor, Main Administration Building

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

A Catholic college finds its identity not only in ethos, ministry, and worship, but also in its presentation of the broad history and diverse areas of theology:

- the Gospel made appealing, interesting and intelligible within an educated Church
- the traditions of centuries of reflection upon faith
- the principles of the Catholic interpretation of Christianity
- the Good News of Christ as beacon and bridge between the Church and the world.

Notre Dame College, fulfilling the ministry of the Catholic Church and the mission of the Sisters of Notre Dame, realizes that true learning orients the human person

- to the divine, that we may know what it is to be fully human, created in time and destined for eternity
- to the wisdom of our ancestors, respecting the traditions of every people and every age, relying upon revelation and authority
- to the self and the environment, preparing with concern and generosity for the future.

As a Catholic college, we therefore seek to develop

- minds through which Christ thinks
- hearts through which Christ loves
- voices through which Christ speaks
- hands through which Christ serves.

The campus

Notre Dame College is located in South Euclid, Ohio, a suburb less than 30 minutes east of downtown Cleveland, an historic city that is changing and rejuvenating. The heritage and culture of more than 60 ethnic groups have come together in Cleveland to forge a center of commerce and industry. Greater Cleveland is a center for many leading national and multi-national corporations. Local businesses, schools, hospitals and civic organizations provide a cooperative education experience for the Notre Dame student while he or she attends college, thereby enhancing the student's employment opportunities after graduation.

Cleveland is truly a Great Lakes city, bustling with commercial and recreational activities on its lake and rivers. The city 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. For recreation, 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. Everything from Browns football and Indians baseball to 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, the state-of-the-art 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 e-mail. All computers in the Learning Center are connected to the campus-wide network. Tutors and lab assistants are available to assist students in the learning process, utilizing these tools.

The electronic classroom is equipped so that faculty can teach students how to use an application or program. Each student is able to use a computer in that classroom while also viewing the projection of the instructor's screen. This room is also available as a student computer lab when not in use for classes.

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.

Students and faculty can also access the Learning Center software programs from every classroom and office through the campus-wide network. Several mobile computers and projectors are used in classrooms for this purpose.

CLARA FRITZSCHE LIBRARY

The Clara Fritzsche Library, dedicated in 1971, houses a collection of more than 93,000 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 foreign language materials. 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 Fritzsche Library is a member of OhioLINK, a network of 84 academic libraries that provides access to over 25 million books and audio-visual materials and 120 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, which are housed on the second floor. A microfiche reader/printer is available for viewing and duplicating periodicals kept on microfiche. 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 ERIC, MEDLINE, PsychINFO EBSCO and Education Index.

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, e-mail and word processing. The Seminar Room may be scheduled for meetings, quiet study, or video viewing. The Library also features a newly renovated art gallery that may be booked for showings by local artists.

The Smart Classroom 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 Smart Classroom is already a popular place for classes, workshops, and meetings by faculty and staff trained in the use of the new technology available.

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, Cuyahoga County 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.

Admission

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, or
- Minimum ACT score of 19/ SAT score of 900, or
- 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 twelve (12) 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.

TRADITIONAL TRANSFER STUDENTS

Traditional transfer students are those who have graduated from high school within four years of their first term of enrollment and who have attended a regionally accredited institution of higher learning following high school graduation. Notre Dame College requires the following credential from each transfer 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
4. Personal interview with an Admissions Counselor.

Academic transcripts must be submitted directly to the Office of Admissions by the issuing high school and college(s) 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
- Evidence of scholarship and the potential for scholarship 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 twelve (12) credit hours during his/her first term of enrollment. A student admitted provisionally will be expected to achieve a 2.0 grade point average upon completion of his/her 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), and who wish to complete course work primarily during the semester and/or summer sessions. 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. Office academic transcripts from each college or university previously attended, and
4. Personal interview with an Admissions Counselor.

Academic transcripts must be submitted directly to the Office of 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 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 twelve (12) 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 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.

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 will be limited to registering for six (6) 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.

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 Transfer Students ONLY:
- Verification of F-1 Status form
- College credit may be offered for completion of coursework at a "C" level or better, equivalent to the Notre Dame College General Education requirements, at a regionally accredited college or university.

For International Athletes ONLY:
An official ACT/SAT test result is NOT REQUIRED unless you compete for Notre Dame College; ATHLETES must achieve two of the three documented standards:

- Graduate in top half of class (confirmation from head master/guidance counselor)
- Receive 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 for approximately the same costs 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 assistance

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 and be maintaining satisfactory academic progress.

SOURCES OF FINANCIAL ASSISTANCE

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)

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
Sisters of Notre Dame Award
Alumni Association Scholarship
Notre Dame College Grant
Family Plan Scholarship

Endowed Awards
Joseph M. and Aldemira Alfonso Award
Notre Dame College Alumni Association 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
H.C.S. Foundation Award
Carl and Dorothy Harig English and Communication Award
Hille-Sposet Scholarship Fund
Sister Mary Patricia Hlivak Award
Reverend Henry Hofer Award
Elizabeth Cantillon Hruby Scholarship

John Huntington Scholarship
Jean G. and Joseph H. Keller Scholarship
The Laub Foundation
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
OFIC 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
TRW Foundation Scholarship
University Suburban Health Center Annual Scholarship
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
Frances P. Nelson Faith Friendship and Forever Award
James C. Sennett Endowment Fund
Monaghan-Maher Scholarship
Charles Schell Foundation Scholarship
F.J. Cole Scholarship
F.J. O'Neill 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 full-time 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. The deposit is transferable from year to year.

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. Registrations received without payment or acceptable arrangements will be voided. Pending financial aid is not an acceptable payment arrangement. Payment for WECO terms is 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. Financial aid is adjusted on the same basis as tuition.

If a student enrolled in Weekend College withdraws before the second class meeting, a 70% refund will be made. There is no refund after the second class meeting.

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/WECO 4 through the Spring semester/WECO 3. 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 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 then 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 then 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 Student
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 development

The Department of Student Development 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 development. The Dean of Student Development is responsible for supervising and coordinating the activities of the following units.

CAMPUS ACTIVITIES
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

Students are encouraged to begin using the Career Services Center during their first year at Notre Dame College. Beginning work early with Career Services helps students better understand the career search process and helps students transition from college to the work place or to graduate programs more successfully. Students are provided a four-year career planner to help navigate the career process. A variety of services and resources are available, from one-on-one career counseling to a Career Resource Center housing computer-based interest inventories, on-line employment and co-op/internship opportunities and a complete career library.

Career Services sponsors a wide variety of programs and workshops to help students in all areas of career planning, from choosing a major to job search techniques. Programs such as resume writing, interviewing skills, dressing for business and dining etiquette, and negotiating the job offer are provided. Career Services also sponsors career nights, career fairs and on-campus recruiting events throughout the year to aid students in exploring full and part-time employment opportunities. A schedule of programs is available on the career website.

COOPERATIVE EDUCATION

Cooperative Education and internships assist students in determining career direction, gaining on-the-job experience, observing professionals, 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 part-time work experience is either major or career-related, can last one semester or longer and can be paid or unpaid. A student can earn a maximum of six credit hours toward graduation with each credit hour requiring 45 hours of work. Tuition for credits earned is the same as for all other courses. While Co-op is required of all Bachelor of Arts candidates, all students are encouraged to participate in this program. The co-op staff develops opportunities, provides support for students, monitors their progress, and interacts with faculty to create a program that links academics to the work place. Students and faculty are notified of current co-op jobs via e-mail, as well as posting on the career website.

COUNSELING

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

Resident students needing health services may go to an off-campus facility located two miles from campus. 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.

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 designed to serve resident students in a variety of ways. Students are encouraged to live on campus if they are under 21 years of age, have earned less than 92 credit hours, are not married and are not living with parents or guardians. Residence life is an opportunity for students to participate fully in campus life and to increase their contact with other students, faculty, and staff.

Students residing on campus may live in one of three residence halls: Petersen, Harks or Providence. All on-campus housing is non-smoking. To encourage interaction among freshmen and upper-class students, there are no designated floors for class levels.

The two-room suites are furnished with desks, dressers and beds and have a private bath. Pending availability, they may be contracted as double or as private rooms. Telephone, internet access and cable TV access are provided by the College.

Resident Assistants (RAs) live on each floor and are trained to build community, meet student needs, plan social and educational programs, and encourage the personal growth and development of each resident. The Director of Residence Life supervises the Resident Assistants.

The Resident Association Board (RAB) is the student governing body within the residence hall. The Board consists of elected officers as well as representatives from each of the residence hall floors. They are responsible for planning programs to meet the needs of the residents; administering the budget for the residence hall community; and serving as a communication agent among students, staff and administrators. Students interested in developing leadership skills and strengthening interpersonal relationships will find that the RAB offers challenging and satisfying opportunities for involvement on campus.
Residents are required to contract with the College food service for meals, which are served in Connelly Dining Hall.

ACADEMIC SUPPORT CENTER

Located in the Clara Fritzsche Library, the Academic Support Center for Students with Learning Differences (ASC) 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. Among its services, the ASC provides tutoring, advising, and lessons on adaptive equipment.

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

Notre Dame College makes reasonable accommodations for students with disabilities. A qualified student with a disability may request support services from the Dean of Student Development and/or his/her designee. In order to receive services at Notre Dame College students with disabilities must provide appropriate documentation which meets state and federal standards for indicating the presence of a disability.

ORIENTATION

Orientation activities assist the student with his/her personal and academic development, offer the parents a better understanding of what entering students are about to experience at Notre Dame College and provide the faculty and staff an opportunity to develop relationships with new students before the academic year begins.
All new traditional-age students and transfer students are encouraged to participate in Orientation activities.

Students participate in activities that allow them to meet other students. Faculty and staff are introduced to students. Programs on student services and academic success are a part of the agenda. While students become oriented to the campus, parents/guests also participate in an orientation so they are aware of the services available for their student.

A separate Orientation for WECO students and adult students is also planned according to the yearly schedule through the WECO office and Student Development.

FYI

Appropriately called First Year Institute, orientation to Notre Dame College continues during the first semester with a unique, small-group experience. The first year of college is a critical period for student learning and persistence. It is a period of transition and adjustment, both academically and socially, during which students acquire important skills that furnish the foundation for subsequent learning. Small groups of 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 Dean of Student Development who chairs the selection committee.

CLUBS AND ORGANIZATIONS

Accounting Association
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.
Habitat for Humanity
Masquers (dramatics)
Multicultural Club
Notre Dame News
Phi Alpha Theta (history honorary)
Pivot (literary magazine)
Poetry
Pre-law
Psychology Club
Resident Association Board
SIFE (Students in Free Enterprise)
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

The Undergraduate Student Government (USG) is the central coordinating group for all student organizations. In addition to serving as the official voice of the students to the Notre Dame College administration, USG provides opportunities for students to gain leadership skills while working for the student body.

The USG plans a variety of events for the whole campus throughout the school year.

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 traditional, adult and WECO men and women. Students and faculty have traveled to Italy, Greece, France, Germany, the Czech Republic, Slovakia, Austria, Spain, and the British Isles.

INTERNATIONAL STUDENT SERVICES

Part of Notre Dame College's mission is to educate a diverse population of students for personal, professional and global responsibility. One of the best ways to achieve this mission is by welcoming students from around the world into our tight-knit community. The Student Development Team helps to foster cross-cultural understanding and diversity awareness on campus, while the Director of International Student Services serves as the point person for recruitment, retention, acculturation and immigration issues regarding international students. International students succeed at a small, liberal arts school like Notre Dame College because of the personal attention, nurturing environment, and low student-faculty ratio.

Students at Notre Dame College will be better prepared to understand the world we live in through first-hand experience with our international student population. The next few decades will not only need degreed-individuals but those who have "worldly" knowledge as well – either through International Educational Travel, able to function in a second/third language, living with an international roommate, etc. At Notre Dame College, we're changing the world… one student at a time. Open your mind to the possibilities!

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 Formal – This semi-formal dinner dance is held annually in the spring.

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

Career Day – Career Day, held in late February, provides students the opportunity to talk with employers about jobs and co-ops/internships.

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.

Sibs & Kids Weekend – During spring semester, Notre Dame College students are encouraged to invite their Sibs to campus for a weekend of activities.

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

As a member of the National Association of Intercollegiate Athletics (NAIA) and the American Mideast Conference (AMC), the largest NAIA league in the nation, Notre Dame College fields 17 teams in the sports of fastpitch, lacrosse, swimming and diving, and volleyball for women; baseball, tennis and wrestling for men; and basketball, cross country, golf, soccer and track and field for both women and men. Competitive events, as well as training opportunities, are available to student athletes within the Joseph H. Keller Center and its surrounding 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 seeks to support the scholar 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.

The program has been implemented through the inauguration of team sports that focus on the enrollment of traditional students. Because of its size, the College affords athletes of varying abilities the opportunity for participation that might not be available to them at larger institutions.

INTRAMURALS AND RECREATION

The intramural and recreation program consists of individual and team activities for persons of all skill levels. Types and structures of events are determined according to interest and facility availability.

Academic Policies and Procedures

CATALOG

Students plan their course work according to the catalog under which they enter the College and remain continuously enrolled. If a new catalog is issued while a student is pursuing a degree, he/she may choose the new catalog and then follow all the new policies and requirements in their entirety. Permission to change catalogs is given by the academic advisor.

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.

Limit of time: A student may enroll continuously for a degree under a single catalog for a maximum of ten years. After that time, credits will be evaluated for current majors in the catalog that is operative at the expiration of the ten-year limitation.

The numbering of the catalog is meant to distinguish course offerings in terms of difficulty and sequence. Lower biennium courses (100-200) are basic courses taken in the first two years. Upper biennium courses (300-400) are more advanced courses which build on the first two years' work.

LIBERAL ARTS EDUCATION

As a liberal arts college, Notre Dame strongly affirms its belief in the worth of the liberal and fine arts as values in themselves and further as a basis for all other undergraduate professional and technical studies.
The General Education Requirements serve as a basis for students to share a common tradition of learning while pursuing an academic major. This core of liberal arts courses provides the means of striving for an integrated picture of the reality of God and humankind.

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

To aid transfer students, General Education Requirements are stated in courses rather than credit hours. However, courses which are used to fulfill General Education Requirements or the academic major must transfer to the semester system at no fewer than two semester credits.

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.

Area	Credits	Courses Satisfying Requirement	Notre Dame College Course Options	Prerequisite or Comment
Written Composition	3	An English composition and writing course	EN 110 or EN 100/101 (EN 207)	Placement at initial enrollment
Oral Communication	3	A Public Speaking course	CA 100	
Information Systems	3	An introductory Computer course	IS 220	IS 120 or Placement
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 290, 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
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.

Area	Credits	Courses Satisfying Requirement	Notre Dame College Course Options	Prerequisite or Comment
Cross Cultural - International Studies	3	• A Modern Language course • A cross cultural or international Anthropology, Business, Literature, Social Science or Theology course • A course associated with travel abroad	See the annual schedule of course offerings for currently available cross-cultural courses.	
Science	4	A Biology, Chemistry, or Physics course with lab	BI 105/106, BI 110/111, BI 112/113, BI 200/201, BI 230/231, CH 100/101, CH 111/113, CH 220/221, CH 225/226, PS 150/151, PS 180/181, PS 190/191, PS 200/201	Recommended courses for non-science majors are BI 105/106, BI 200/201, BI 230/231, CH 220/221, CH 225/226
Mathematics	3	A Math course appropriate to the major and beyond the developmental level	MA 120, MA 130, MA 131, MA 145, MA 175, MA 220, MA 221	Placement
Social Sciences	3	A course in Economics, Geography, History, Political Science, Psychology or Sociology	Any EC, GO, HI, PO, PY or SO course	
Health and Wellness	3	A Health and Wellness course	HP 110 (traditional students) HP 112 (adult students)	

GENERAL DEGREE REQUIREMENTS

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 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 maintained a minimum 2.00 average in the major field. This includes all the courses indicated as requirements for the specific major or program. Students in Education are required to maintain a minimum 2.75 average.
- 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 General Education Requirements and those in the chosen major field of study.
- have attained a grade point average of at least 2.00 by the end of the first year of study.
- have maintained a minimum 2.00 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.

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

To ensure a program of study characterized by both breadth and depth, each student is expected to pursue a major area of study in addition to the courses fulfilling the General Education Requirements.

The academic major deepens the student's knowledge in a particular field and provides the perspective from which to view a complex universe.

Degree candidates are encouraged to choose a major by the end of the sophomore year. In some majors, however, an intent for a major needs to be made apparent in the first year in order to fulfill all requirements in four years. This situation is particularly true in the natural sciences, mathematics, and education. Some other disciplines may also encourage early determination.

Some programs have both entrance and graduation requirements for a specific grade point average during the time of study. The Education Division requires a minimum 2.75 average and the Intelligence Analysis and Research program requires a minimum 3.0 average for formal admission and for continuation in the program.

All others require a minimum cumulative 2.00 average in the major courses as well as a minimum cumulative 2.00 average in all other courses for the degree.

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
Management Information Systems
(Business Administration)
Management (Business Administration)
Marketing (Business Administration)
Mathematics
Political Science
Psychology
Studio Art
Theology

Interdisciplinary Majors (Bachelor of Arts degree)
Graphic Communication (Art)
Human Resources Development (Business Administration)
Public Administration (History/Political Science)
Public Relations (Communication)
Sports Management (Business Administration)

Individually Designed Majors (Bachelor of Arts degree) and Minors
The Individually Designed Major or Minor is intended for the student whose talents and career goals aim at a field of study different from those in the current catalogue. It is the exceptional student who, with the guidance of at least two faculty members and subsequent approval, can design a major. This curriculum is conceived with a clear internal coherence and purpose. It is not simply a random collection of courses.

A student with a GPA of at least 3.0 may apply. Approval should be obtained before the end of the sophomore year. Exceptions may be made for transfer students. Forms for Application and Guidance for Procedure are available in the Office of Student Records.

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

An Associate in Arts (AA) degree is available with these majors:
Business Management
Education Paraprofessional
Pastoral Ministry

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

An R.N. to BSN completion program is also available.

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
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

CERTIFICATE PROGRAMS

Accounting (Business Administration)
Advanced Certificate in Pastoral Ministry
Basic Certificate in Pastoral Ministry
Entrepreneurship (Business Administration)
Management (Business Administration)
Management Information Systems (Business Administration)
Marketing (Business Administration)

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. When this knowledge has been properly documented and assessed, 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 will do this through a process called portfolio assessment. Portfolio assessment may not be accepted for credit in certain areas or for certain courses. A student should contact the appropriate division chairperson for more information.

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 level "C" is the minimum acceptable level for credits earned through examination. A student should contact the appropriate division chairperson for more information.

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 3.00 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 are included in the academic major and general degree requirements for graduation.

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, elective or required, 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 teachers, social workers, and human services and business personnel. Flexibly-scheduled courses cover a broad range of topics in education, mental retardation/ developmental disabilities, business, leadership, technology, and athletic coaching.

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

Continuing Education:

- 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 take a course for enrichment at the undergraduate level for a reduced rate. Enrollment is limited to offerings that are not fully enrolled and all other conditions are met. Seniors may take Center for Professional Development offerings at a continuing education level 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.

PLAGIARISM

Plagiarism, a serious academic offense, occurs when an individual presents the ideas, thoughts or words of another as his/her own. Some examples of plagiarism include the following:

- Using phrases, sentences or ideas from a published source, including the Internet, without adding a footnote or bibliographic reference;
- Putting forward another person's unpublished work as one's own;
- Rewriting or paraphrasing the work of another person without giving credit to that person for thoughts, ideas or words through the use of a footnote or bibliographic reference;
- Submitting a paper as one's work which has been copied, in whole or part, from another source (including Internet sources) as one's own work.

An assignment containing plagiarized material will receive a grade of "F," seriously affecting the student's final grade in the course. All incidents of plagiarism are reported to the Vice President for Academic Affairs, and a letter citing the incident is included in the student's official file. Should a second incident of plagiarism occur during the student's pursuit of a degree, he/she will earn an "F" in that course, and a letter regarding the incident will be entered into the student's official file. Should a third incident of plagiarism occur, the student will be dismissed from the college; his/her readmission is unlikely. All letters in the student's file will be destroyed upon graduation.

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.

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.

Credits will be given for courses which correspond with the curriculum offered at Notre Dame College in which the applicant received a grade of "C" (2.0) or better, which are from regionally accredited institutions, and which are not considered remedial. Generally a 2.50 grade point average on a 4.00 scale is required. Transferred courses carry the credit hours earned only.

Credits which are five years old or older will be evaluated on the basis of the student's general achievement profiled on the transcript, and the student's declared academic major at Notre Dame College. Transfer credit is not granted for courses that duplicate coursework taken at Notre Dame College.

STANDARD FOR COMPLETION OF PROGRAMS OF STUDY

Full-time students normally complete requirements for a Bachelor's Degree in four academic years (eight semesters). Students entering the College under less than Full Admission may take as many as five academic years (ten semesters) to complete requirements for a Bachelor's Degree. Students in certain majors and those who choose to earn a double major may also need more than eight semesters to complete their degrees.

Students consistently enrolled on a part-time basis will take a proportionately longer period of time to complete requirements for a degree.

Students are normally expected to carry to completion courses for which financial aid is being received. "Carrying to completion" is defined as receiving one of the following grades: A, A-, B+, B, B-,C+, C, C-, D, F, P, CR, NC.

Although students may drop a course for significant reasons, they are normally expected to carry 75-80% of courses per semester to completion (4 courses per semester for full-time students).

Since a 2.00 GPA is required for graduation, it is also assumed that 2.00 is the minimum average a student must maintain in order to be considered in good standing or making satisfactory progress toward a degree.

A student earning less than a 2.00 cumulative average is placed on academic probation. A student who does not make satisfactory academic progress may be declared academically ineligible to continue at Notre Dame College by the Vice President for Academic Affairs. The student will receive a letter regarding academic status with a recommended and/or required course of action. Students who do not have a 2.00 grade point average by the end of the sophomore year are usually not permitted to continue studies at Notre Dame College.

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.

GRADING SYSTEM

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.

F (Withdrawal without Permission) or after the specified time limit.

ATTENDANCE AT CLASSES

Attendance regulations reflect the effort of Notre Dame College to admit students who can be responsible for their educational progress. It is expected that the student 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 2.00 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 declared academically ineligible to return to Notre Dame College.

Scholastic improvement means that the grade point average has been raised above the average of the previous semester. If the student is dismissed, he/she may request reinstatement only under certain conditions. (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.

TRANSCRIPTS OF RECORD

Requests for official transcripts of record must be made in writing by the individual student concerned, presented in person, or mailed to the Office of Student Records. For each transcript, the current fee should accompany the written request. **TRANSCRIPTS 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 (Weekend College Students)

In recognition of academic excellence, a Dean's List is compiled each WECO Term. To qualify, a student must have an average of 3.50 or greater and must have taken a graded course in each time slot of that Term. An incomplete grade (I) precludes such recognition.

President's List (Weekend College Students)

In recognition of a superior level of academic achievement, a President's List is compiled at the end of WECO Term III. To qualify, a student must have an average of 4.00 and must have completed three consecutive WECO terms in a given academic year and must have taken a course in each time slot in each of the three Terms.

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.
- In addition, the Sr. Patricia Hlivak Memorial Award for outstanding service to the biology department.
- O'Neill Scholarship Award.

Business Administration
- Outstanding Business Student Award (for a graduating senior)
- Financial Executives Institute Outstanding Graduate Award for Accounting/Finance majors.
- Dan Connelly 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.

English/Communication/Theater
- Hoover-Takacs Award for Excellence in English (for graduating seniors).
- 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
- Certificate for excellence in Fine Arts.

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.

Social Science
- Plaque for Distinguished Work in History/Political Science.
- Membership in Phi Alpha Theta International Honor Society in History.

Psychology
- The John Arthur Award for Excellence in Psychology.

Special Awards
- Greater Cleveland Connection Intern of the Year Award.
- 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. Feltch, 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

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

Academic Programs

ART

Studio and Professional Art Programs Goals
The student interested in the visual arts has four options within the fine arts department: studio art, art education, graphic communication or graphic design. The majors seek to help the student develop his or her particular strengths in a chosen major and to prepare for a career as a working artist, art educator or graphic designer. The strong programs in computer graphics and multi-media will enhance all art majors and lead to entry-level positions in the area of graphic design, web design, multi-media design or a combination of computer-based design work.

STUDIO ART MAJOR

48 Credits

Program Goals:

1. Studio art majors will gain studio skills in a variety of techniques and media that will qualify the artist for graduate studies or a career in the visual arts. Mastery of skills will be demonstrated in the form of a senior art exhibition.

2. Studio art majors will demonstrate expertise and studio competency presented in the form of a senior art portfolio. This portfolio will prepare students for art competition or job interviews and serve as a record of studio progress.

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 Goals:

1. The graphic communication major will have exposure to and experience using the latest computer software and hardware. This will prepare designers for entry level positions in the field of graphic design, positions in which communication, writing and design skills are necessary or for graduate school.

2. Majors will accumulate a body of graphic design work and professional writing in the form of a graphic design portfolio that will emphasize both design and communication competency.

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 365 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 Art 491. **A portfolio is required as part of the course work in Art 491 and is presented before the entire art faculty.**

GRAPHIC DESIGN MAJOR

51 Credits
Program Goals:

1. Graphic design majors will have exposure to and experience using the latest computer software and hardware. Additionally the student will develop an understanding of graphic design theory and feel competent in developing an individual style.

2. Design majors will have access to and experience in multimedia and web design and be competent in using these tools as a graphic designer. The student will be prepared for an entry-level position using a multitude of design tools and techniques.

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/IS 243 Multimedia Design
AR 300 Graphic Design III
AR 400 Graphic Design IV
AR 314 Impressionism to Now
AR 325 Printmaking I
AR/IS 365 Web Design
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)

45 Credits
Requirements: 45 Credits
AR 101 Drawing I
AR 102 Drawing II
AR 114 Introduction Graphic Design
AR 209 Photography
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 360 Art Methods
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

Studio Art Requirements—6 Credits from:

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 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 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: An Experimental Approach
AR 313 Women Artists: Historical Survey
AR 314 Impressionism to Today
AR 316 American 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
AR 221 Basic Design

12 credits from:

AR 223 Graphic Design I
AR 224 Graphic Design II
AR/IS 365 Web Site Design and Development
AR/IS 243 Multimedia 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.**
The entry level course for the graphic design major providing the student design elements and principles for the method of problem solving, group critiques as well as practical and hands-on application of specific graphic design problems. Emphasis will be placed on traditional techniques with a transition to cyber-based technology. 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 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. 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.**
Introduction to computers working with vector-based and current programs. An introduction to graphic design based on an organizational grid structure. Students will continue their studies in text placement, color, layout and basic design and learn to use external digital enhancement. They will develop pieces of work common in graphic design such as letterheads, logos and fliers. Two, two and one-half hour lab periods weekly. Prerequisites: AR 114 and AR 221.

AR 224 Graphic Design II **3 cr.**
Continued studies in graphic design utilizing raster-based information. Diverse approaches to solving basic design and communication problems are applied. Projects generated will include more advanced design work and incorporate skills helpful to preparing visual information. 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 280 Art Appreciation: An Experimental 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.
Designing electronic page layout with type, text and images to create a professional multi-page layout using various applications. Various methods of producing and scanning images will be developed together with numerous options to edit and manipulate those images. 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/IS 365 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 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.**
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. 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. Prerequisite: BU 222 and 243.

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.**

BIOLOGY

This major 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.

BIOLOGY MAJOR: BACHELOR OF SCIENCE PROGRAM

This program is designed to prepare the student for advanced studies in medicine, podiatry, dentistry, veterinary medicine, or graduate studies and research.

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

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.

BIOLOGY MAJOR: BACHELOR OF ARTS PROGRAM

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

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

ASSOCIATE OF SCIENCE IN HEALTH SCIENCE AND A DIPLOMA IN NURSING

98 Credits

MISSION STATEMENT CLEVELAND CLINIC

The mission of Cleveland Clinic is to provide compassionate health care 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.

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.

CURRICULUM PLAN FOR COOPERATIVE PROGRAM AGREEMENT WITH NOTRE DAME COLLEGE

Course Number/Title	Semester Credits	Clock Hours	
		Theory	Clinical/Lab
First Semester			
BI 105/106 Intro to Cell Biology & Chemistry/Lab **OR**	4	45	45
CH100/101: General Chemistry/Lab	4	45	45
BI 204/205 Anatomy & Physiology I/Lab	4	45	45
MA 110 Intermediate Algebra	3	45	—
PY 210 General Psychology	3	45	—
EN 100 or EN 110 English Composition	3	45	—
Second Semester			
BI 206/207 Anatomy & Physiology II/Lab	4	45	45
HP 215 Nutrition for Sport, Fitness & Health	3	45	—
CA 100 Elements of Speech	3	45	—
SO 201 Introduction to Sociology	3	45	—
EN 101 English Composition (for those who had to take EN 100)	3	45	—
Third Semester:			
BI 240/241 Microbiology/Lab	4	45	45
English Literature Elective	3	45	—
N1000 Pharmacology in Nursing Practice	1	15	—
N1010 Health Assessment	2	15	45
N1020 Fundamentals of Nursing	6	45	135
Fourth Semester			
PY 255 Lifespan Development	3	45	—
N2010 Medical-Surgical Nursing I	5	45	90
N2020 Psychosocial Nursing	4	30	90
Fifth Semester			
PH 380 Bioethics	3	45	—
N3010 Medical Surgical Nursing II	5	45	90
N3020 Maternal-Child Nursing	4	30	90
Sixth Semester			
Theology Elective	3	45	—
N4010 Advanced Concepts in Med-Surg Nursing	5	45	90
N4020 Nursing Leadership	4	30	90
Electives			
N3000 Peri-Operative Nursing	3	30	45
Totals (excluding N3000 elective)	85	975	900
Total for Nursing courses only	36	300	720

All nursing courses are completed at Huron School of Nursing. Credits for nursing courses may not transfer to institutions of higher learning.

COURSE OFFERINGS AT NOTRE DAME COLLEGE

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 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. **Must be taken concurrently with BI 106, Introduction to the Biological Sciences Laboratory.**

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

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 the 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 experiences that investigate concepts presented in BI 206, Human Anatomy and Physiology II. Prerequisites or concurrent: BI 204/5; **must be taken concurrently with BI 206, Human Anatomy and Physiology II.**

BI 240 Introductory 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, Introductory Microbiology Lab.**

BI 241 Introductory Microbiology Lab 1 cr.
One three hour laboratory period weekly. Includes staining and culture techniques used for the identification of an 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, Introductory Microbiology.**

PY 201 General Psychology 3 cr.
An introduction to the science of human behavior and the principles, methods, and theories of modern psychology. Major topics include research design, development, learning, sensation, perception, thinking, memory, motivation, personality, psychotherapy, therapies, and principles of social and industrial organizations.

EN 100 or EN 110 Principles of Expository Writing 3 cr.
Extensive work in expository writing, some treatment of grammar and style, and the completion of an acceptable research paper.

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.

PY 255 Lifespan Development 3 cr.
Study of human growth and development throughout life span. Emphasis on biological, cognitive, social and emotional development. Major issues are examined from diverse perspectives.

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.

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 beginning and end of life, genetic research, organ transplants, reproductive technologies, the right to health care and the allocation of scarce resources.

See course offerings in English and Theology for options of an English Literature and Theology course. Both of these courses are needed for completion of the degree.

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. Corerequisites: NR 113/N I020.

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, hematological, 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 health care 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/N2015 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.

BIOLOGY MINOR

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

8 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 320	Evolution
BI 420, 421	Developmental Biology and Lab

8 credits from:

BI 340, 341	Parasitology and Lab
BI 350	Genetics
BI 360, 361	Microbiology 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

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.

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 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 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 interactions, 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 2 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, Management Information Systems, Management, and Marketing. (This list does not apply to Sports/Recreation 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 such as BU/CA 232 Professional Communications.

Each major program has its own specialized requirements. These are given below.

ACCOUNTING

Goals:

The Accounting major is designed to prepare students 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)**

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.

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

Requirements:

Business Administration Core Courses + 24 credits in the following:

BU 255, 256	Intermediate Accounting I, II
BU 315	Auditing
BU 320	Cost Accounting
BU 325	Federal Income Tax
BU 455	Advanced Accounting

In addition to these courses, it is strongly recommended that students complete Business Law II and Business Ethics.

HUMAN RESOURCES DEVELOPMENT

Goals:

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 Relations 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. The student who majors in Human Resources Development will complete a course of study comprising Business Management, Psychology and Sociology.

Course Requirements:

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

Selected Business 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

In addition to these courses, it is strongly recommended that students complete a course in Business Ethics and Professional Communication as part of their elective choices. Students are also strongly urged to complete a course in Critical Thinking.

MANAGEMENT INFORMATION SYSTEMS

Goal:

The Management Information Systems major helps students develop the conceptual knowledge and analysis skills to prepare for careers in business or further graduate studies. The program stresses practical applications and field experience.

Requirements:

Business Administration Core Courses + 18 credits including:

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.

MANAGEMENT MAJOR

Goals:

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.

Course Requirements:

Business Administration Core Courses + 21 credits in Upper Biennium Business Administration and Economics courses, including the following required courses:

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

In addition to these courses it is strongly recommended that students complete a course in Business Ethics and Business/Professional/Organizational Communication as part of their elective choices. Students are also strongly urged to complete a course in Critical Thinking.

MARKETING

Goals:

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 marketing 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

SPORTS MANAGEMENT MAJOR

Goal:

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 sports 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.

Course Requirements:

All students take a core of courses in the fields of Business and Sports Management.

Business 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

Sports 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 (9 Credits):

BU 301	Consumer Behavior
BU 303	Entrepreneurship
BU 410	New Venture Creation

Requirements – Non-Business Majors (15 Credits):

BU 150	Accounting Basics
EC 100	Economics and Contemporary Issues
BU 301	Consumer Behavior
BU 303	Entrepreneurship
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

In addition to these courses it is strongly recommended that students complete a course in Business Ethics and Business/Professional/Organizational Communication as part of their elective choices. Students are also strongly urged to complete a course in Critical Thinking.

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.

CERTIFICATE PROGRAMS

Certificate programs are available in Accounting, Information Systems, Management, and Marketing. Requirements for the certificate are the same as for the respective major, including any prerequisites from the Business Administration Core. In addition, an introductory level certificate in Business Administration is available. Contact the Division Chair for more specific information.

ASSOCIATE IN ARTS DEGREE WITH A MAJOR IN BUSINESS MANAGEMENT

A candidate for an Associate in Arts (AA) degree must meet the requirements listed under "Academic Policies and Procedures" section of the catalog as well as the General Education Requirements listed in the "Associate Degree Programs" section of the catalog. In addition, the following courses are required for the management program:

BU 155	Accounting Principles I
BU 230	Marketing Principles
BU 240	Management Principles
EC 201	Principles of Microeconomics
EC 202	Principles of Macroeconomics
EC/MA 221	Statistics I
IS 220	Computer Productivity Applications
IS 260	Computer Decision-Making Applications

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 232 Professional Communications 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.

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.

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 325 Federal Income Tax 4 cr.
Study of federal income tax laws, regulations, and procedures as related and applied to individuals, partnerships, and corporations. Brief coverage of Ohio and related city income tax regulations and procedures is presented. Prerequisite: BU 156. *In the Weekend College format, this course is numbered BU 326 and 327. 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 156, 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 will also 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 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 trans-actions, 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 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.
Nature, purpose, and functions of law with special emphasis on its relation to business. Fundamentals of the law of contracts, agency, sales, commercial paper, banking, property, partnerships, corporations, bankruptcy, trade regulations, secured transactions, investment securities, and documents of title. Prerequisite: junior standing.

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

CHEMISTRY MAJOR: BACHELOR OF SCIENCE PROGRAM

Graduates in the chemistry program 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.

The Bachelor of Science chemistry major may cover any of three emphasis areas. Each emphasis consists of a common core and specialized coursework.

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

COMPREHENSIVE CHEMISTRY EMPHASIS

(American Chemical Society Curriculum)
18 Additional 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

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

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

CHEMISTRY/BUSINESS EMPHASIS

21 Additional 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.

AREA 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 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 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 1aa Principles of Inorganic Chemistry 3 cr.
Introduction to organic 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 1ab (lab).

CH 1ab Principles of Inorganic Chemistry Laboratory 1 cr.
A one, 3-hour laboratory period weekly. Corequisite: CH 1aa.

CH 1ac 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 1aa/1ab; corequisite: CH 1ad (lab).

CH 1ad Principles of Organic and Biological Chemistry Laboratory 1 cr.
A one, 3-hour laboratory period weekly. Corequisite: CH 1ac.

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 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 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 any communication program will be qualified to pursue graduate studies or a variety of careers requiring problem-solving, critical thinking, critical listening, and inferential reading. Graduates will demonstrate effective speaking and writing skills in a variety of contexts.

COMMUNICATION MAJOR

33 Credits
Program Goal:
A broad and integrated approach to the field of communication, coursework in both process and theory will prepare students for graduate work in the field as well as for related areas such as law, mediation, social interaction, and other disciplines.

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	Newswriting
CA 305	Film Studies
CA 309	Acting and Directing
CA 313	Event/Play Production Apprenticeship
CA 323	Writing for the Non-Print Media
CA 324	Writing for Publication
CA 380	Organizational Communication
CA 401	Communication Theory
CA 403	Public Relations
CA 410	TV/Radio

PUBLIC RELATIONS MAJOR

57 Credits

Program Goal:

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, journalism, promotions, advertising, business, non-profit organizations, and related professions.

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	Newswriting
CA 323	Writing for the Non-Print Media
CA 324	Writing for Publication
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 240	Management Principles
BU 305	Management Information Systems
IS 243	Multimedia Development
IS 260	Computer Decision-Making Applications
EN 210	Critical Writing
EN 314	Workshop in advanced Grammar
EN 318	Creative Writing
CA 212	Oral Interpretation
CA 305	Film Studies
CA 309	Acting and Directing
CA 313	Event/Play Production Apprenticeship

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 providing experience in writing news and feature stories. All students will play an active role in writing or layout for the College newspaper *Notre Dame News*.*

CA 232 Professional Communications 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 print and non-print media services including newspapers, magazines, radio, television, film, popular music, and comics. Develops understanding of mass communication through study of the commercial underpinnings of the American mass media system, ethical and social issues shaped and reflected by the media, and consumer uses and roles in a mass communication context.*

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 323 Writing for the Non-Print Media 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 324 Writing for Publication 3 cr.
An advanced professional writing course, providing experiences in freelance writing in various genres. All students will play an active role in writing or layout for the College newspaper *Notre Dame News*. 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 "communication flows" within organizations, examining the impact of computer networks, the internet, e-mail, and fax machines. The course is helpful for those who will be supervisors and leaders within organizations since these roles will be changed by technology.*

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 practioners. 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 models of perfectly competitive market economies, centrally planned command economies, and the hybrid of market socialism; views examples of each of these at various levels of maturity and development. Prerequisite: EC 100 or EC 201-202 or permission of instructor.

EC 331 Money and Banking 3 cr.
An examination of the various forms of money and other financial assets and the markets in which they are traded; the roles of banks and other financial intermediaries and the effect of their behavior on their customers and the economy; the government's monetary policies and their impact on the economic activity of the country. 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 contents 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
Spanish
Visual Arts

LICENSURE FOR EARLY CHILDHOOD EDUCATION (ECE) (PRE-K - 3)

General Content Requirement:

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	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 (9)

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 358	Classroom Management
ED 413	Student Teaching: ECE
ED 475	Issues in Education

Early Childhood Education Courses (5)

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

Instruction in ECE (5)

ED 379	Music, Creative Arts & Physical Movement in ECE
ED 341	Curriculum Principles in Pre-K - 12
ED 342	Integrated Teaching Methods Pre-K - 12
ED 343	Field Experience for ED 342
ED 380	Reading Field Experience for ECE & MCE & MMIS

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)

Professional Education Core (8)

ED 202	Introduction to Education
ED 203	Field Experience for Introduction to Education
ED 204	Educational Psychology
ED 205	Psychology of Student with Special Needs
ED 206	Field Experience for ED 205
ED 301	Integrating Technology Across the Curriculum
ED 358	Classroom Management
ED 412	Student Teaching: MCE
ED 475	Issues in Education

Middle Childhood Education Courses (9)

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 341	Curriculum Principles Pre-K -12
ED 342	Integrated Methods Pre-K - 12
ED 343	Field Experience for ED 342
ED 355	Assessment and Correction of Reading Disabilities
ED 380	Field Experience for Reading in ECE & 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 112, CA 250, EN 312, EN 314*
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

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

* Recommended but NOT required

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 the two remaining concentration areas (i.e. Math 130&131; Biological & Earth Science & Labs; EN 110, CA 100 & ED 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)

General Content Requirement:

Social & Behavioral Sciences (2)

PY 201	General Psychology
HI 110	Western Civilizations from 1500

Professional Education Core (8)

ED 202	Introduction to Education
ED 203	Field Experience for ED202
ED 204	Educational Psychology
ED 205	Psychology of Students with Special Needs
ED 206	Field Experience for ED205
ED 301	Integrating Technology Across the Curriculum
ED 358	Classroom Management
ED 421	Student Teaching: Adolescent to Young Adult (AYA)
ED 475	Issues in Education

Adolescent to Young Adult Core Courses (4)

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

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 AR 360, AR 361

MILD MODERATE INTERVENTION SPECIALIST (MMIS) (K - 12)

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
EC 100	Economics and Contemporary Issues

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 (9)

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 414	Student Teaching: MMIS
ED 475	Issues in Education

MMIS Core (11)

ED 221	The Role of Phonics in Reading
ED 335	Reading in the Content Areas
ED 355	Assessment & Correction of Reading Disabilities
ED 376	Developmental Reading Instruction in ECE
ED 380	Field Experience for Reading Core
ED 352	Student Class Management
ED 353	Assessment of Special Needs
ED 354	Instructional Strategies in Mild Moderate
ED 357	Field Experience for ED 354
ED 330	Collaborative Teaming

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.)

READING ENDORSEMENT

A Reading Endorsement K-12 may be added to licensure areas.

Course Requirements for each Licensure Area:

ECE PK-3

ED 221	Phonics
ED 325	Foundations of Reading
ED 332	Reading Across the Curriculum
ED 355	Assessment and Correction of Reading Disabilities
	OR
ED 380	Field Experience for Reading
ED 365	Undergraduate Reading Practicum
ED 376	Developmental Reading

MCE (Gr. 4-9)

ED 221	Phonics
ED 325	Foundations of Reading
ED 332	Reading Across the Curriculum
ED 335	Content Area Reading
ED 355	Assessment and Correction of Reading Disabilities
	OR
ED 380	Field Experience for Reading
ED 365	Undergraduate Reading Practicum

AYA/Spanish/Visual Arts

ED 221	Phonics
ED 325	Foundations of Reading
ED 335	Content Area Reading
ED 365	Undergraduate Reading Practicum

MMIS

ED 221	Phonics
ED 325	Foundations of Reading
ED 335	Content Area Reading
ED 355	Assessment and Correction of Reading Disabilities
	OR
ED 380	Field Experience for Reading
ED 365	Undergraduate Reading Practicum
ED 376	Developmental Reading

ASSOCIATE'S DEGREE, EDUCATION PARAPROFESSIONAL

66 Credits

Students who work toward the educational paraprofessional associate's degree will be able to use the courses they complete toward a teaching license should they decide to pursue a bachelor's degree.

Courses are offered day, evenings and weekends as well as during the summer months. The sequence of courses listed below comprise the curriculum for the program.

First Semester (15)

EN 110	Advanced Composition
CA 100	Elements of Speech
MA 130	Contemporary Math I
PY 201	General Psychology
BU 220	Introduction to Computers

Second Semester (16)

ED 204	Educational Psychology: Learning and Human Abilities
PH 180	History of Western Philosophy
MA 131	Contemporary Math II
BI 105, 106	Introduction to Biological Sciences

One literature course at the 200 level or above.

Third Semester (19)

ED 205	Psychology of Student with Special Needs
ED 301	Integrating Technology Across the Curriculum
TH 150	Introduction to Theology
HP 110	Wellness for College
CH 220, 221	Earth Science

One art course at the 200 level or above.

Fourth Semester (16)

ED 221	The Role of Phonics in Reading
ED 332	Reading Across the Curriculum in ECE and MCE
ED 352	Student Class Management
ED 475	Issues in Education
ED 392	Educational Paraprofessional Methods
ED 393	Educational Paraprofessional Practicum

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. Pass/fail grade. 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. Prerequisite: PY 201.

ED 206 Field Placement Component for ED 205 .5 cr.

Approximately fifteen (15) hours of observation at an appropriate site as determined by the instructor and/or Field Placement Director. Pass/fail grade. Must be taken concurrently with ED 205.

ED 221 The Role of Phonics in Reading 3 cr.

Nature and the role of word recognition in proficient reading. Rationale and methods for assessment and instruction of phonemic awareness, decoding, spelling and their application in reading and writing. Identification of deficits in each area and their relation to reading disabilities.

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 e-mail; 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: ED 204 and IS 220 or placement.

ED 325 Foundations in Reading 3 cr.
A study of theory and teaching methods and best literacy practices as determined by current research in the field of reading. Students will become knowledgeable of education theory in the areas of teachers, students, schools, curriculum, instruction, foundations, education reform, educational technology, and diversity. Prerequisites: Reading Core Courses. Must be taken with ED 355.

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.

ED 332 Reading Across the Curriculum in ECE and MCE 3 cr.
A study of the strategies for using literature in teaching reading in all areas of the PK-3 and 4-9 curriculum. Includes use of both expository test and content-oriented literature. Prerequisites: ED 202, 204, 265, and formal admission to the Division of Education.

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. Prerequisites: ED 202, 203, 204, 205, 206, 341, 342, and formal admission to the Division of Education.

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 ALL education majors/minors. 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 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 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.

ED 355 Assessment and Correction of Reading Disabilities 3 cr.
A study of the types and causes of reading disabilities, procedures for clinical and classroom diagnosis, and the methods and materials for the correction of these disabilities. Prerequisites: ED 202, 203, 204, 205, 206, and 265.

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 at an off-site location. 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 children 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. You will learn to evaluate intervention strategies and how to design a classroom management plan that makes sense for your students. Contents 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.

ED 365 Reading Practicum 3 cr.
The last course in reading 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. Knowledge of 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. Must be taken with ED 355.

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 the entire curriculum for young children of diverse learning needs. Prerequisites: ED 202, 204, 205, 221, 265 (Pre-K and 4-9 only), 355 and formal admission to the Division of Education.

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. 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 early and middle childhood licenses. Thirty (30) hours of observation/activities at an appropriate site as determined by the instructor and/or field placement director.

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 special education classroom (K-12) under the supervision of a cooperating teacher and a college supervisor. Prerequisite: Departmental 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-are 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, 429, 493, 494 Special Projects 1-3 cr.

ENGLISH

Program Goals:

1. All graduates of the English program will demonstrate skill in reading comprehension, problem solving, critical thinking and effective writing to be effective in advanced study and in the workplace.

2. All graduates of the English program will demonstrate the beginnings of a life-long love for literature and the performing arts.

ENGLISH MAJOR

49-51 Credits

Requirements:

CA 112	Oral Interpretation
EN 210	Critical Writing
EN 312	History of the English Language
EN 314	Workshop in Advanced Grammar
EN 321	Introduction to Literary Theory and Criticism
EN 331	British Literature to 1700
EN 332	British Literature 1700-1900
EN 341	American Literature to 1900
EN 342	Seminar in American Literature
EN 395 or 495	Cooperative Education (1-3 cr.) (Not needed for the Integrated Language Arts Licensure)
EN 462	Shakespeare's Histories and Tragedies
EN 480	Great Books Seminar
EN 482	English Studies (Not needed for the Integrated Language Arts Licensure)

One of the following:

EN 220	Newswriting
EN 318	Creative Writing
EN 324	Writing for Publication

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

One of the following:

CA 250	Mass Communication
CA 323	Writing for the Non Print Media
CA 410	TV/Radio

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

Highly recommended:

EN 314	Workshop in Advanced Grammar

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

One of the following:

EN 255	Introduction to Western Literature: Epics and Poetry
EN 256	Introduction to Western Literature: Prose
EN 281	The Short Story
EN 381	Women Playwrights
EN 382	Women Writers

Highly recommended:

EN 314	Workshop in Advanced Grammar

See **EDUCATION** for Professional Education Requirements.

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 Basic Principles of Expository Writing 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. This course fulfills the General Education Requirement for Written Communication.

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 providing experience in writing news and feature stories. All students will play an active role in writing or layout for the College 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 the works of novelists such as Toni Morrison, Sherwood Anderson, Charles W. Chesnutt, and Les Roberts; and poets such as Mary Oliver, James Wright, Rita Dove, and Langston Hughs.

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 Workshop in Advanced Grammar 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. Recommended preparation: EN 210.*

EN 323 Writing for the Non-Print Media 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 Writing for Publication 3 cr.
Also listed as CA 324
An advanced professional writing course providing experiences in freelance writing in various genres. All students will play an active role in writing or layout for the college newspaper *Notre Dame News*. Prerequisite: EN 220.

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, Cathy Song, Lorna Dee Cervantes.*

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	Newswriting
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:

Minor	Required Credits
Biology	24 (8 additional)
Business Administration	28
Chemistry	28 (9 additional)
Communications	21
Graphic Communications	21
Economics	18
English	24
Information Systems	18
Management	18
Marketing	18
Mathematics	20
Multimedia	18
Writing	15

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 mission of the department is to empower students to make healthful choices in all dimensions of their lives.

MINOR IN HEALTH EDUCATION

22-25 Credits

An excellent minor for individuals interested in positively influencing the health behavior of individuals and communities in the public or private sector.

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

Recommended 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. Students can develop an acquaintance with skills needed to coach a variety of sports. This minor includes CPR and First Aid Certification 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 SPORTS 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 110 Wellness for College Life 3 cr.
A lifestyle approach to fitness and wellness emphasizing primary prevention and mind/body relationship. Content focuses on topics of interest to traditional-age students.

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 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. Prerequisite: 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.

HP 391, 392, 393 Selected Topics 1-3 cr.

HP 400 Practicum 1-3 cr.
Supervised coaching experience in a school or recreational setting.

HISTORY/POLITICAL SCIENCE

The study of history and political science offers students the opportunity to learn about a variety of cultural, political and economic developments throughout the world and in our own society. The program offers a major in history or political science, as well as a minor in both fields.

HISTORY MAJOR

39 Credits

Goals:

The history major requires the student to analyze the social, political and economic culture of the world civilizations. It focuses on cultivating and refining critical thinking, reading, writing, and research skills. The program prepares students for careers in high school and elementary education as well as graduate studies in history, law, library science, policy studies, intelligence research and analysis and certain fields within the private sector.

Requirements:

HI 110	Western Cultures from 1500
HI 200	Major Themes in American History
HI 450	Senior Research Seminar
EN 210	Critical Writing
HI 495	Cooperative Education Project

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

42 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

21 Credits

Requirements:

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

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 ANALYSIS AND RESEARCH (IAR)

The program in intelligence analysis and research (IAR) is a multidisciplinary concentration within the History and Political Science Department that has been designed to give students the necessary background that will enable them to pursue careers as research or intelligence analysts in government agencies or in private enterprise. Analysts who do this kind of work, whether it be related to national security, the investigation of criminal activities, or competitive business intelligence, prepare assessments based on the collection, correlation and analysis of intelligence data. The goal of the IAR program is to prepare qualified graduates for entry-level positions and to bring with them the following skills:

- A broad understanding of world and American history
- A knowledge of comparative governments and political philosophies
- The ability to produce written and oral reports and assessments based on research, correlation, and analysis
- A reading competency in a foreign language
- A familiarity with computer operations and database management
- A general understanding of statistical techniques

Intelligence Analysis and Research Emphasis Requirements:
Students who seek admission to the IAR program must apply to the program director, submit a writing sample, and successfully complete an interview by the selection committee. Students must be aware that future employment requires intensive background investigations, and any conduct that is deemed to be significantly unethical, illegal, or unprofessional may result in the failure of that student to gain employment in the field regardless of his/her academic record.

To be recommended for graduation the student must have a minimum GPA of 3.0 in *all* courses. Courses required for completion of the emphasis may not be taken pass-fail basis. A departmental review and assessment of the academic progress of all students enrolled in the program will take place at the conclusion of each academic year. Students whose GPA falls below the minimum standard of 3.0, or who exhibit behavior that is not conducive to ensuring employment in this field will be placed on probation or disenrolled from the program, depending on the outcome of the review.

Course Requirements:

History Core:

HI 110	Western Civilization after 1500
HI 200	Major Themes in American History
EN 210	Critical Writing
HI 450	Senior Research Project
HI 495	Cooperative Education

Coursework for completion of program:

PO 111	American Government and Politics
EC 202	Macroeconomics
PO 311	Comparative Politics
PO 312	International Relations
HI 410	American Foreign Policy

Plus one course in non-western history (HI 330, 331, 332, 333, 336)

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 455	Advanced Research and Analysis

Plus 12 credits in a foreign language

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 MAJOR WITH AN EMPHASIS IN CRIMINAL JUSTICE

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 431	Offenders with Disabilities

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 315	Supreme Court and Constitutional Law
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 345	Organizational Behavior
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

Economics Requirements:

EC 201	Principles of Microeconomics
EC 202	Principles of Macroeconomics

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

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. Prerequisite: 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 policy-making, 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. Prerequisite: 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 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 431 Offenders with Disabilities 3 cr.
Designed to develop awareness of the offender with disabilities, the clinical definition of mental retardation and mental illness will be presented, while skills and strategies for successful communication with this segment of the population will be stressed. Specific approaches to the successful development of collaborative techniques with specialized personnel within the criminal justice system, such as court psychiatric clinics and community agencies that specialize in working with these individuals will be explored. Case studies relative to this segment of the population will be presented, and will focus on issues such as anger management, alcohol and drug abuse, problems of sexual abuse, and competency of the offender. 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.

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

Goals:
The Management Information Systems major helps students develop conceptual knowledge as well as the knowledge of software, programming and analysis skills to prepare for careers in business or further graduate studies. The program stresses practical applications and field experience.

This major is offered within the Business Administration Division. For detailed information on program requirements, see page 46 of the Business Administration section of the course catalog.

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. *In the Weekend College format, the IS 223, IS 224 combination is numbered IS 225 and 226. 2, 2 cr.*

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. *In the Weekend College format, the IS 223, IS 224 combination is numbered IS 225 and 226. 2, 2 cr.*

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. Prerequisite: BU 305 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. *In the Weekend College format, the IS 333, IS 334 combination is numbered IS 331 and 332. 2, 2 cr.*

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. *In the Weekend College format, the IS 333, IS 334 combination is numbered IS 331 and 332. 2, 2 cr.*

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. Prerequisite: 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. Prerequisite: 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

MATHEMATICS MAJOR

39 Credits

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 BA or BS in mathematics must complete the common major requirements as well as an area of emphasis chosen from one of the areas below. In addition, it is recommended that students complete PH 330 Critical Thinking, which fulfills a General Education Requirement.

Common Major Requirements (27 Credits):

MA 175	Calculus I	4 cr.
MA 176	Calculus II	4 cr.
MA 277	Calculus III	3 cr.
MA 280	Differential Equations I	3 cr.
MA 330	Modern Geometry	3 cr.
MA 331	Linear Algebra and Matrix Theory	3 cr.
MA 332	Introduction to Discrete Mathematics	3 cr.
MA 432	Modern Algebra	3 cr.
MA 481	Coordinating Seminar	1 cr.

I. Preprofessional Mathematics Emphasis (39 Credits):

MA 363	Numerical Analysis I	3 cr.
MA 410	Differential Equations II	3 cr.
MA 452	Discrete Structures	3 cr.

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:

MA 221	Statistics I	3 cr.
MA 310	Number Theory	3 cr.
Two upper-biennium math electives		6 cr.

See **EDUCATION** for Professional Education Requirements.

AREA OF CONCENTRATION IN MATHEMATICS FOR MIDDLE CHILDHOOD LICENSE (GR. 4 - 9)

15 Credits

Requirements:

MA 120	Pre-Calculus	3 cr.
MA 130	Elementary Number Theory	3 cr.
MA 131	Geometry, Probability and Statistics from an elementary point of view	3 cr.
MA 221	Statistics I	3 cr.
MA 330	Geometry	3 cr.

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)		3 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 and 110 are developmental courses, do not count toward the 128 credit hours required for graduation, and do not fulfill the General Education Requirement. All courses beyond the developmental series count toward the 128 credit hours required for graduation and fulfill the General Education Requirement.

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 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 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, Gauss-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. Prerequisites: 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 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. Prerequisites: 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:

SSP 201, 202	Intermediate Spanish I, II
SP 315, 316	Advanced Oral and Written Expression I, II

2 courses 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

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 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 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 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 lifelong 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 affect 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 lifelong 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 before students may apply for admission to the BSN Program include:

EN100/101	Basic Principles of Expository Writing (6 cr.) OR
EN 110	Advanced Composition: Expository Writing (3 cr.)
CH 106/107	Principles of Inorganic Chemistry/ Lab (4 cr.)
CH 116/117	Principles of Organic and Biological Chemistry/Lab (4 cr.)
MA110	Intermediate Algebra (3 cr.)
BI 204/BI 205 & BI 206/BI 207	Human Anatomy & Physiology I & II/Lab (8 cr.
PY 201	General Psychology (3 cr.)

The nursing application process is competitive with preference given to current Notre Dame students and graduates of the Notre Dame Associate of 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), 4.) submit a 1-2 page essay describing their personal/ professional goals, and 5.) meet physical capabilities of the program, as documented in the applicant's physical exam from their health care provider.

Registered Nurse (RN) students in the Post-Licensure BSN completion 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 unencumbered 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 provisional acceptance pending completion of nursing program prerequisites.

Physical 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.

Notre Dame College will make reasonable accommodations to assist a student with a disability to advance through the program.

Transfer and Advanced Standing

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.

The transfer policy for students enrolled in the Notre Dame College Associate of 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. The best qualified applicants will be selected each year based on the number of seats available.

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.

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 the following pre-requisites and support courses for the nursing major: BI 204/205 Human Anatomy and Physiology I/Lab; BI 206/207 Human Anatomy and Physiology II/Lab; CH 106/107 Principles of Inorganic Chemistry; CH 116/117 Principles of Organic and Biological Chemistry; MA 110 Intermediate Algebra (or equivalent); EN 100/101 Basic Principles of Expository Writing or EN 110 Advanced Composition: Expository Writing; PY 201, General Psychology; SC 201, Introductory Sociology and BI 240/241, Microbiology/Lab.

A minimum grade of "C" is required for satisfactory completion of each nursing course. Students must achieve a minimum exam average of 73 percent 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 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. Prerequisite courses, support courses and nursing courses may be repeated only once if a grade less than "C" is achieved.

Pre-Licensure Track Requirements

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 Expository Writing
PY 201	General Psychology
MA 110	Intermediate College Algebra

Support Courses (16 Credits):

BI 240/241	Introductory Microbiology with Lab
HP 215	Nutrition for Sports, Fitness & Health
MA 221	Statistics I
PY 251	Lifespan Development
SO 201	Introduction to Sociology

NURSING MAJOR

61 Credits

NR 200	Health Assessment Across the Lifespan
NR 215	Foundations of Nursing I
NR 216	Foundations of Nursing II
NR 225	Pharmacology
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 Multisystem Health Alterations
NR 440	Professional Issues
NR 450	Gerontology
NR 460	Health Care Leadership/Management
NR 461	Professional Practicum

Nursing Elective (3 Credits), Choose 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 critical care from the American Association of Critical Care Nurses or who have certification in emergency nursing from the Emergency Nurses Association may obtain credit by examination for NR 430 Nursing Care of Adults/Families with Complex Health Alterations. 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 Expository Writing
PY 201	General Psychology
MA 110	Intermediate College Algebra

Support Courses (16 Credits):

BI 240/241	Introductory Microbiology with Lab
HP 215	Nutrition for Sports, Fitness & Health
MA 221	Statistics I
PY 251	Lifespan Development

NURSING MAJOR

30 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 430	Nursing Care of Adults/Families with Complex Multisystem Health Alterations
NR 450	Gerontology
NR 460	Health Care Leadership/Management

Nursing Elective (2-3 Credits), Choose 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

NR 200 Health Assessment Across the Life Span 3cr.
Didactic and lab with 2 hours/week of class and one three hour lab per 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.
Prerequisites: Admission to the Bachelor of Science in Nursing Program; BI 240/ 241, Introductory Microbiology/Lab (or concurrent); PY 251, Lifespan Development (or concurrent).

NR 215 Foundations of Nursing I **4 cr.**
Didactic, lab, clinical with 2 class hours/week, one 3-hour lab/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, Introductory Microbiology/Lab (or concurrent)

NR 225 Pharmacology **3 cr.**
Didactic with 3 class hours/week.
Pharmacokinetics and clinical applications of a variety of classes of drugs based on body systems 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: Admission to the Baccalaureate Nursing Program, BI 240/241, Introductory Microbiology/Lab, NR 215, Foundations of Nursing I.

NR 216 Foundations of Nursing II **4 cr.**
Didactic, lab, clinical with two class hours/week, one 3-hour lab/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, Health Assessment Across the Lifespan; NR 215, Foundations of Nursing I; NR 225, Pharmacology (or concurrent)

NR 300 Professional Transitions (For RN's ONLY) **3 cr.**
Didactic with 3 class hours/week.
Introduction to the philosophy and curriculum framework for BSN completion program. 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. Prerequisites: Unencumbered license as a registered nurse; evidence of satisfactory completion of an accredited diploma or Associate of Science in Nursing program.

NR 310 Evidence-Based Practice **3 cr.**
Didactic with 3 hours class/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. Prerequisite: Successful completion of Level I nursing courses; MA 221, Statistics I (or concurrent).

NR 320 Adult Nursing Practice **7 cr.**
Didactic, clinical with 5 hours class/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: Satisfactory completion of Level I nursing courses; NR 310, Evidence-Based Practice (or concurrent).

NR 330 Mental Health Nursing **4 cr.**
Didactic, clinical with 3 hours class/week and 90 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: Satisfactory completion of Level I nursing courses; NR 320, Adult Nursing Practice.

NR 340 Family Nursing **6 cr.**
Didactic, clinical with 4 hours/week class and 90 hours clinical/semester.
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: Satisfactory completion of Level I nursing courses; NR 320, Adult Nursing Practice.

NR 410 Health Care Policy in Complex Adaptive Systems 3 cr.
Didactic with 3 hours of class/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: Satisfactory completion of Level II nursing courses. NR 300, Professional Transitions, (or concurrent) for students in the RN to BSN Track. Open to non-nursing majors with permission of instructor.

NR 420 Community/Populations Nursing Practice 5cr.
Didactic, clinical with 3 hours class/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 context and patterns of interconnected relationships. Epidemiological concepts are integrated throughout. Examines the role of the nurse in caring for communities. Emergency preparedness and bioterrorism are introduced. Collaboration and coordination with community members and agencies is emphasized. Prerequisites: Satisfactory completion of Level II nursing courses; NR 410, Health Care Policy (or concurrent). NR 300, Professional Transitions (or concurrent) for students in the RN to BSN Track.

NR 430 Nursing Care of Adults/Families with Complex Multisystem Health Alterations 5 cr.
Didactic, clinical with 3 class hours/week and 90 hours clinical/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: Satisfactory completion of Level II nursing courses.

NR 440 Professional Issues 3 cr.
Didactic with 3 hours class/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: Satisfactory completion of Level II nursing courses.

NR 450 Gerontology 3cr.
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 and art are used as a medium 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: PY 251, Lifespan Development; satisfactory completion of Level II nursing courses; NR 300, Professional Transitions (or concurrent) for students in the RN to BSN track; or permission of instructor for non-nursing majors. Junior or senior status is required.

NR 460 Health Care Leadership/Management 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 and quality of care, based on evidence-based practice, are applied within complex adaptive health care systems. Prerequisites: NR 430, Nursing Care of Individuals with Complex Multisystem Health Alterations. Must be taken concurrent with NR 461, Professional Practicum for students enrolled in the BSN Pre-Licensure Track; NR 300, Professional Transitions, for students enrolled in the RN to BSN Track.

NR 461 Professional Practicum 3 cr.
Seminar/Clinical with one hour seminar/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: NR 410, Health Care Policy; NR 420, Community/Populations Nursing Practice; NR 430, Nursing Care of Individuals with Complex Health Alterations. Prerequisites: NR 440, Professional Issues; NR 460, Health Care Leadership/Management (or concurrent).

NURSING ELECTIVES

NR 470/471 Complementary/ Alternative Heath 2-3 cr.
Didactic with 2 class hours/week. May involve a 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 2-3 cr.
Focus is a special topic related to nursing. Course is taught in seminar format. Topic for seminar to be announced. May involve a service learning component. Prerequisites: Junior or senior level status for nursing majors.

OR

NR 474/475 International Nursing in a Developing Country 2-3 cr.
Didactic with 2 class hours/week. May involve a 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. Prerequisites: Junior or senior level status for nursing majors.

PASTORAL THEOLOGY AND MINISTRY

Courses are offered both on and off campus and can be taken for credit or non-credit by Notre Dame College students and by those in the pastoral ministry certification program.

Catholic School Teachers can apply these courses to the renewal of state teaching certificates. These courses may be taken by Catholic high school teachers seeking a teaching field in theology. Catechists and catechetical leaders can apply these courses to diocesan catechist certification on the basic or advanced levels. Please call the Center for more information: 216.373.5389.
Each semester one or more of the courses listed below are taught in Spanish in order to better assist students preparing for ministry in the Hispanic community.

The overall goal of the following 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 and other direct service ministries in the Catholic Christian tradition.

BASIC CERTIFICATE IN PASTORAL MINISTRY

This is a program 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.

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.

General Admission Requirements:
- High school diploma/GED
- Application interview
- Letter of recommendation from your pastor or religious superior
- Current involvement in an approved area of 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

ADVANCED CERTIFICATE IN PASTORAL MINISTRY

This program is for those pursuing a career in Pastoral Ministry. The Advanced Certificate in Pastoral Ministry from Notre Dame College also fulfills most of the academic requirements for Diocesan Pastoral Ministry Certification in the Cleveland diocese.

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 unless otherwise noted.

General Admission Requirements:

- A high school diploma/GED
- Application interview
- Letter of recommendation from your pastor or religious superior
- Current involvement in an approved area of ministry

Required Courses:

Scripture

PM 104	Hebrew Scriptures
PM 105	Christian Scriptures

1 elective in Scripture

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 (A required course for those not in the diocesan formation program, and an approved elective for those who are in the diocesan program).
PM 346	Canon Law for Ministry
PM 365	Applied Moral Theology

Electives:

Scripture

PM 324	The Gospels
PM 327	Acts and Letters

Catechetics

PM 317	Basic Beliefs and Tradition
PM 318	Basic Beliefs and Faith Formation
PM 319	Catechetical Methods
PM 340	Adolescent Catechesis

ASSOCIATE DEGREE WITH A MAJOR IN PASTORAL MINISTRY

Advanced Certification Program courses 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, page 96, 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 191, 192, 193 Selected Topics

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 291, 292, 293 Selected Topics

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 317 Basic Beliefs and Tradition 1 cr.
Presents an overview of the basic teachings of the Catholic Church with practical applications for catechists.

PM 318 Basic Beliefs and Faith Formation 2 cr.
Presents an overview of the basic teachings of the Catholic church with special applications for catechists. Addresses the catechist's own spiritual formation and gives pertinent resources that support this ministry.

PM 319 Catechetical Methods 1 cr.
Focuses on educational methods especially helpful for those teaching Catholic doctrine in Grades 1-8.

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.

PM 391, 392, 393, 394 Selected Topics

PHILOSOPHY

The study of philosophy involves reflection upon the character and validity of the fundamental principles that guide our thought and action, our search for knowledge and ultimately our desire to live well. Philosophy is at the core of a liberal arts education 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 complement 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.

MINOR IN PHILOSOPHY

18 Credits

Requirements:

PH 180	History of Western Philosophy
PH 480	Current Ethical Problems and Positions

12 additional credits in upper biennium philosophy courses, which include PH 480.

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.

PS 491, 492 Independent Study 1-3 cr.
An opportunity for students who meet the requirements to do independent studies.

PSYCHOLOGY

A student completing a major in psychology will be prepared for graduate level work in clinical and/or experimental psychology, for further training and certification, entry level positions in the mental health field, and/or working in behavioral research laboratories. Psychology coursework is also appropriate for students planning careers in education, business, law, nursing, criminal justice, and intelligence analysis.

PSYCHOLOGY MAJOR

49 Credits

Requirements:

A. Psychology Core:

PY 201	General Psychology
PY 222	Statistics for the Behavioral Sciences
PY 307	Experimental Design
PY 325	Biopsychology
PY 400	Practicum
	OR
PY 402	Observation***

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. Developmental

PY 204	Educational Psychology*
PY 253	Child Psychology
PY 254	Psychology of the Young Adolescent
PY 301	Psychology of Gender Differences
PY 351	Psychology of Adult Development

3. Biopsychology/Cognitive

PY 340	Learning and Memory
PY 380	Cognitive Psychology
PY 425	Sensation and Perception

4. Social/Organizational **

PY 210	Social Psychology
PY 235	Sports Psychology
PY 240	Management and Organization
PY 260	Industrial/Organizational Psychology
PY 330	Health Psychology
PY 345	Organizational Behavior
PY 385	Tests and Measurements

C. Nine additional credits in upper biennium electives

1. *Any upper biennium courses from the four areas of concentration (not used to fulfill requirement B).*

2. *Upper biennium special topics may include:*
   Psychology, Film, and Literature Behavior Genetics
   Psychology of Individual Differences

G indicates recommended courses for graduate school in psychology
* currently the focus is from the classroom teacher's perspective
** an interdisciplinary emphasis (Psychology and Business Administration)
*** only by permission

PSYCHOLOGY MINOR

22 Credits

Requirements:

A. Psychology Core:

PY 201	General Psychology
PY 222	Statistics for the Behavioral Sciences
PY 307	Experimental Design
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.**
An introduction to the science of human behavior and the principles, methods, and theories of modern psychology. Major topics include research design, development, learning, sensation, perception, thinking, memory, motivation, personality, psychopathology, therapies, principles of social and industrial organizations, and ethical issues.

PY 204 Educational Psychology **3 cr.**
See ED 204 for course description.

PY 210 Social Psychology **3 cr.**
A study of how thoughts, feelings, and behaviors of individuals are influenced by group settings. Topics include: aggression, interpersonal attraction, attitude formation and change, conformity, attribution, group process, and obedience to authority. Prerequisite: PY 201.

PY 222 Statistics for the Behavioral Sciences 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.

PY 235 Sports 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 sports participation contribute to a person's overall psychological health and well-being?" Prerequisite:
PY 201

PY 240 Management and Organization 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 through old age with an emphasis on physical, cognitive and social development. Not part of the core requirements for the psychology major or minor. Prerequisite: PY 201

PY 253 Child Psychology 3 cr.
Presents current research and theories of human growth and development from conception to adolescence. Emphasis is placed on the interaction of biological, psychological, and sociocultural influences on normal development. The growing child is considered in terms of physical, social, cognitive, emotional, aesthetic and moral development. Prerequisite: PY 201

PY 254 Adolescent Psychology 3 cr.
Presents current research and theories of human growth and development from puberty through adolescence. Study of the psychological, social, emotional, intellectual, and moral characteristics of this developmental period within a social and cultural context. Focus is on the impact of family settings, threats to health and safety, and risk behaviors in contemporary society that affect healthy psychology of adolescents. Prerequisite: PY 201.

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.

PY 301 Psychology of Gender Differences 3 cr.
Based upon current research and theory, this course examines the unique psychological differences between men and women in the areas of physiological and personality development with emphasis on social, cultural, and political influences. Prerequisite: PY 201.

PY 307 Experimental Design 4 cr.
This course introduces the importance of the scientific method to the study of behavior and mental processes. The course covers research design, ethical considerations in terms of human subjects research, data analysis and the reporting of research findings. Students conduct empirical research and write an APA style research report based on the research conducted in the class. Prerequisites: PY 201, PY 222, or permission of the department chairperson. *In the Weekend College format, this course is numbered PY 308 and PY 309. 2, 2 cr.*

PY 325 Biopsychology 3 cr.
This course will introduce the student to the idea that behavior is controlled by neural and physiological processes. Three content areas covered in the course include a) examination of neurons and neurotransmission, b) description of sensory and motor systems and c) summary of the involvement of the central nervous system in various behavioral phenomena including learning, memory, and psychotic disorders. Prerequisite: PY 201.

PY 330 Health Psychology 3 cr.
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

PY 340 Learning and Memory 3 cr.
Introduction to theory and research in the area of learning processes. Content areas covered include habituation and sensitization, conditioning, contingencies of reinforcement and punishment, concept formation, observational learning, memory and language acquisition. Prerequisite: PY 201

PY 345 Organizational Behavior 3 cr.
See BU 345 for course description.

PY 351 Psychology of Adult Development and Aging 3 cr.
A study of the physiological, social, and psychological issues in development from young adulthood through middle age and aging. Attention given to the significant adult development tasks and crises, including aging and dying. Prerequisite: PY 253 or PY 254.

PY 355 Psychology of Family Systems 3 cr.
An examination of the complex and developing field of family systems therapy. Topics include: Adlerian, Multi-generational, Experimental, Structural and Strategic therapy models. Family therapy from a multicultural perspective is emphasized. Prerequisites: PY 201, 303.

PY 370 Psychology of the Abnormal 3 cr.
Study of the classification of major mental disorders, their development, symptoms, and treatment with emphasis on prevention and cure. Prerequisite: PY 201.

PY 375 Psychology of Personality 3 cr.
Study of the structure and dynamics of personality according to various theories. Prerequisite: PY 201.

PY 380 Cognitive Psychology 3 cr.
Presents research and theories on cognitive processes from an information processing framework. Focusing on processes used to transform, store, manipulate, and retrieve sensory input. Topics include attention, pattern recognition, memory, language and categorization. Prerequisite: PY 201.

PY 385 Tests and Measurements 3 cr.
A survey and evaluation of current psychological tests. Focuses on the areas of personality, career interests, achievement, and intelligence. Test construction, reliability, validity, and ethical issues will be addressed at length for all tests studied. Students will have hands on practice with each test. Prerequisite: PY 201.

PY 391, 392, 393 Selected Topics 3 cr.

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 150 hours. Must be taken concurrently with PY 401, Practicum Seminar.

PY 402 Senior Observation 3 cr.
Supervised observations of differing psychological settings. Students interview professionals in community agencies or other sites. Prerequisites: Must have senior standing or completion of most course requirements for the psychology major and permission of the psychology department chairperson in order to substitute Senior Observation, PY 402, for the Practicum experience, PY 400. Must be taken concurrently with PY 401, Practicum Seminar.

PY 406 Group Dynamics and the Problem Solving Process 3 cr.
Presents an overview of various types of groups; legal, ethical and professional issues in group work; the stages in group evolution and basic issues in group membership and leadership. Experiential learning is emphasized. Prerequisites: PY 201, 303, or permission of the department chairperson.

PY 412 Counseling Theories and Practice 3 cr.
An examination of basic principles and selected current approaches to counseling; the psychophilosophical bases of the theories and their specific application to human relations in counseling, school and business settings is presented. The course includes practical experience that promotes effective listening skills. Important legal, ethical, and professional issues are examined. Prerequisite: PY 201.

PY 425 Sensation and Perception 3 cr.
The study of structure and function of the sensory systems, how they code environmental stimuli, and how we process these stimuli to perceive the world. Prerequisite: PY 201.

PY 491, 492, 493, 494 Independent Study 1-3 cr.
An opportunity for qualified and capable students to do independent study in psychology. Hours and credits arranged by department. Prerequisite: PY 201 and permission of instructor.

SOCIOLOGY

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

Notre Dame College's mission and purposes emphasize the value of exploring one's own religious tradition and deepening one's spirituality. For at the heart of each person, and also at the heart of the world, is the relationship between the human and the Divine, between nature and Mystery.

Students are encouraged to take as many theology courses as they can. At least one course in Scripture is required to broaden the student's exposure to the basic text of the Judaeo-Christian tradition, as well as to learn how to read any sacred text in its historical and literary context. The one required course, TH 450 Social Justice: Issues and Action, introduces all students to the rich body of modern Catholic Social Teaching and to the principles and application of liberation. Today, it is not enough to know one's faith intellectually. The suffering in the world calls all believers to respond in action for healing and flourishing in the global community.

A theology major affords the student both professional and personal benefits. A graduate with a major in theology is ready for graduate level studies in the field as well as for employment in the field of pastoral ministry. On a personal level, the theology major will deepen the student's appreciation of and response to all dimensions of divinely created reality. In this respect, the theology major serves as an excellent complement to other majors when pursued as a second major.

Students can pursue minor fields in theology and in Scripture, and can prepare for teaching religion on the elementary or secondary level. The Center for Pastoral Theology and Ministry prepares persons for ministry in the Catholic Church. Ministry and theology courses and field experience provide the academic qualifications for basic and for advanced certification in pastoral ministry and for the teaching of religion by the Diocese of Cleveland, and for an Associate of Arts degree.

Pastoral Ministry courses with theology content fulfill theology requirements.

A student earning a Bachelor of Arts degree with a major in theology will :

1. Understand and appreciate the renewal prompted by Vatican Council II in the areas of scriptural interpretation, doctrine, liturgy and moral theology

2. Be an articulate spokesperson for critical thought in theological matters and for spiritual growth

3. Live out a commitment to respect the earth and all peoples, to care for those in need, and to fulfill his/her mission in this world.

THEOLOGY MAJOR

36 Credits

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 the 36 credits.

Students desiring to teach religion in high school should consult with the Director of the Center for Pastoral Theology and Ministry for current diocesan requirements.

THE THEOLOGY MAJOR is well complemented by the following minors. We also encourage any minor that a student wishes to pursue.

- **Philosophy:** A "must" for any student planning to go to graduate school in theology. Theological thinkers are responding to the thought forms of the past and of the present; thus it is essential that a student know those thought forms.

- **Information Systems** is a very marketable minor that will enable a theology major to understand computer systems in the work of church ministry, education, business, volunteer areas or any career today.

- **Women's Studies** gives a student a feminist perspective in her theology studies.

- **Fine Arts Minor** provides a theology major with theory and skills in creative expression, an important aspect of the religious imagination.

- **Communication Minor** benefits a student with a theology major who plans on writing for publication, working in Christian broadcasting, or pursuing the developing field of Communication Theology.

- **Biology Minor** provides a scientific application for theological insights.

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.

If the student wishes to use the minor as a teaching field, the student also is encouraged to take PM 318 and PM 319 or PM 340. These courses fulfill beginning certification requirements for teaching religion in the Diocese of Cleveland.

MINOR IN BIBLICAL STUDIES

18 Credits

Requirements:

TH 150	Introduction to Theology
TH 321	Old Testament Theology
TH 322	New Testament Theology

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.

MINOR IN YOUTH MINISTRY

26 Credits

This minor is a good complement to a theology major or an education licensure for youth and young adults. The internship or cooperative education experience should be in an office of youth ministry in a church or parish.

Requirements:

PM 340	Adolescent Catechesis (1 cr.)
PM 318	Basic Beliefs and Faith Formation (2 c.r)
TH 382	Synoptic Gospels and Acts (3 cr.)
	OR
PM 324	The Gospels (2 cr.)
TH 495	Cooperative Education (2-6 cr.)
PY 201	General Psychology (3 cr.)
PY 254	Psychology of the Young Adult (3 cr.)
ED 204	Educational Psychology (3 cr.)
SO 222	Problems of Contemporary Society (3 cr.)
SO 320	Marriage and Family in a Diverse Society (3 cr.)
SO 425	Conflict Management and Resolution (3 cr.)

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

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

TH 281, 282 Seminar 1-3 cr.

TH 295, 395, 495 Cooperative Education 1-6 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 150 recommended.

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 150 recommended.

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. Offered in fall of odd-numbered years.

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. TH 150 recommended. Offered every sixth semester.

TH 371 The Pentateuch: Foundations of the Judaeo-Christian Tradition 3 cr.
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 150 recommended.

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 150 recommended.

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 150 recommended.

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 150 recommended.

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 150 recommended.

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 150 recommended.

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. This course is available in a completely on-line format. See the Theology chairperson for details. TH 150 recommended. Available on-line.

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 student in her personal appropriation of the knowledge about the Jesus of history and the Christ of faith. TH 150 recommended.

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. TH 150 is recommended. Junior status required.

TH 481, 482 Seminar 1-3 cr.

TH 491, 493, 494 Independent Study 1-3 cr.

TH 295, 495 Cooperative Education 1-6 cr.

WOMEN'S STUDIES

Women's Studies is an academic area arising from a recognition of the need systematically and explicitly to incorporate women's contributions, women's experiences, and feminist theory into the liberal arts.

The goals of Women's Studies at Notre Dame College are to appreciate the history and the achievements of women, to explore issues flowing from social construct of gender, to awaken women and men to reflect on their own sense of self and on interrelationships, and to prepare persons of competence and compassion for a more just and equitable society.

WOMEN'S STUDIES MINOR

15 Credits

Requirements:

WS 301/HI 301 History and Themes of the Women's Movement

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.

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.

COURSE OFFERINGS

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. Studies 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. This course is open to all students, not only those pursuing the Women's Studies minor. It is not a prerequisite for the minor but it is required to complete the minor.

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