



4545 College Road | Cleveland, Ohio 44121 | (216) 381-1680

undergraduate catalog | 2002-2004

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Academic calendar

FALL SEMESTER 2002

June 1	Late Registration for Returning Students
August 23	Last Day of Open Registration
August 26	First Day of Instruction
August 26-30	Schedule Adjustment Period
August 30	Last Day to ADD a Course
September 2	Labor Day - NO CLASSES
October 11	Fall Break - NO CLASSES
November 1	Last Day to WITHDRAW from a Course
November 13-26	Spring 2003 Priority Registration
Nov. 27- Dec. 1	Thanksgiving Break - NO CLASSES
December 6	Last Day of Instruction
December 9-12	Final Exam Week
January 6, 2003	Grade Reports Issued

SPRING SEMESTER 2003

December 15	Late Registration for Returning Students
January 10	Last Day of Open Registration
January 13	First Day of Instruction
January 13-17	Schedule Adjustment Period
January 17	Last Day to ADD a Course
January 20	Martin Luther King Day - NO CLASSES
March 3-7	Spring Break - NO CLASSES
March 28	Last Day to WITHDRAW from a Course
April 15-25	Fall 2003 Priority Registration
April 17-21	Easter Break - NO CLASSES
April 30	All-College Honors
May 2	Last Day of Instruction
May 5-8	Final Exam Week
May 10	Baccalaureate/Commencement
May 20	Grade Reports Issued
June 1	Late Registration for Returning Students



WECO 2002-2003

Term I	Term II
August 23-24	November 15-16
September 6-7	December 6-7
September 20-21	December 20-21
October 4-5	January 3-4
October 18-19	January 17-18
November 1-2	Jan. 31-Feb. 1
Term III	Term IV
February 14-15	May 16-17
Feb. 28-March 1	May 23-24
March 14-15	May 30-31
March 28-29	June 13-14
April 11-12	June 20-21
April 25-26	June 27-28

inquiries

See our Home Page at www.notredamecollege.edu

Send e-mail to: admissions@notredamecollege.edu

Our mailing address is:
Notre Dame College
4545 College Road
South Euclid, Ohio 44121

PHONE: (216) 381-1680

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, scholarships and loans 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



Letter from the president

Dear Students,

Welcome to Notre Dame College.

Your choice of a college is an important one, and I am confident you will find both satisfaction and challenge in your choice of Notre Dame. Founded in 1922 by the Sisters of Notre Dame, Notre Dame College is dedicated to educating students of all ages, races and religions.

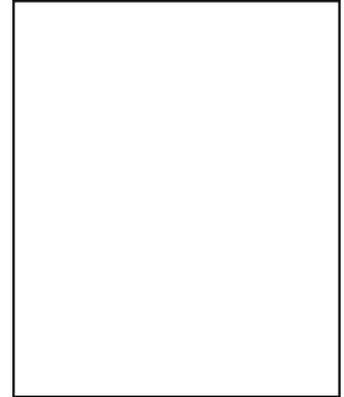
The College today reflects the spirit and energy of St. Julie Billiart, foundress of the Sisters of Notre Dame. St. Julie believed that truly progressive education blends traditional values with creative ideas to meet new needs. At Notre Dame you will find the warm, welcoming atmosphere of a small Catholic liberal arts college. You will meet faculty, staff and students who are committed to integrating learning with the challenges of the workplace. You will have the opportunity to use state of the art technology and explore great ideas that have shaped the modern world. You will be prepared to combine the marketable skills of your chosen career with the clear thinking and communication skills that mark a liberally educated person. By studying the breadth of the liberal arts and by focusing in depth on a well-designed major, Notre Dame students prepare themselves for the future that they will help to shape. Because of the College's emphasis on cooperative education, Notre Dame students are encouraged to take advantage of the wonderful opportunities for placements in the Greater Cleveland area. It is not unusual to find Notre Dame students engaged in cooperative education projects or internships in many of Cleveland's leading business, medical, financial and social welfare organizations. Such experiential learning expands our campus learning environment, provides students with invaluable opportunities to test their classroom learning in real world situations and often leads to excellent professional positions for our graduates.

Notre Dame offers its students a fine career-oriented liberal arts education, and I am delighted to welcome you to this unique college experience. I look forward to meeting you personally and sharing the stories of your successes here at Notre Dame.

Sincerely,



Anne L. Deming, Ph.D.
President



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 setting

Notre Dame College is located in South Euclid, Ohio, a suburb less than 30 minutes east of downtown Cleveland, an historical city that is growing, changing and rebuilding. 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, ranking fifth in Fortune magazine's 1,000 corporate headquarters. 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 her/his employment opportunities after graduation.

Cleveland is truly a Great Lakes city, with more shoreline than any other metropolitan area. 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 one-square-mile complex containing an unusual blend of cultural, educational, medical, religious and



social service institutions. The Cleveland Museum of Art, the Museum of Natural History, the Cleveland Institute of Art and the Cleveland Institute of Music are open year round. Also located in University Circle is the newly-refurbished Severance Hall, where the world-famous Cleveland Orchestra performs. The Cleveland Play House, the oldest repertory company in the nation, operates three theaters in a major new complex near University Circle. 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 the Cleveland Ballet, the Cleveland Opera Company and the Great Lakes Theater Festival. 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 and Crunch indoor soccer is played in Cleveland's downtown facilities.

THE ADMINISTRATION BUILDING

The wooded 53-acre campus provides the setting for the College. The Administration Building, of English Tudor Gothic architecture, houses most of the classrooms and offices, the state-of-the-art Science Research Center, the Dwyer Learning Center, the Performing Arts Center and the Little Theater. Constructed in 1928, the Administration Building features carved sandstone, oak paneling, marble, leaded and amber glass, a 110 foot lit tower and a pitched slate roof. In 1987, it was designated a national historic site 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. 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 90,000 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 and foreign language materials. In addition, the Library maintains a comprehensive juvenile collection, a curriculum library which provides a wealth of resource materials for prospective teachers and a paralegal collection of over 5,000 law books which supports the Paralegal Studies program.

In an effort to provide timely information for all disciplines, the Clara Fritzsche Library is a member of OhioLINK, a network of academic libraries that provides access to over 76 databases and 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 and the Education Index. ProQuest, a CD-ROM based research tool, provides abstracts and full text articles from hundreds of journals in all subject areas.

The Clara Fritzsche Library maintains a media center, also on the second floor, with carrels for viewing and listening to all audio-visual materials. The Media Lab offers a range of production services such as laminating, audio and video tape duplication and videotaping.

The library provides a variety of facilities conveniently located on the first floor. The computer room contains an additional computer workstation and copier for student use. The Seminar Room may be scheduled for meetings, quiet study or video viewing. The library also houses a newly renovated art gallery that may be booked for showings by local artists.

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. 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 initiate interlibrary loan requests 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 seventy academic libraries throughout Ohio, including John Carroll University, Ursuline College and St. Mary Seminary.

JOSEPH H. KELLER CENTER

The Joseph H. Keller Center houses an NCAA-size swimming pool and a gymnasium for classes in physical education and intercollegiate competitions. While the Keller Center supports the educational mission of the College to educate and form the complete person, its facilities are also made available to the civic community.



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 made based 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 (800) NDC-1680 ext. 5355.

ADMISSION REQUIREMENTS

Notre Dame College admits students who demonstrate potential for success in rigorous academic work. The credentials of each applicant are individually evaluated with consideration to a combination of academic record, entrance examination performance and evidence of potential for college studies. The College has a very fair and generous policy on the transfer of academic credit earned within the preceding five years at a regionally accredited college or university. 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 as diverse, Notre Dame College has established alternative admission requirements for traditional, traditional transfer, non-traditional, Weekend College, home-schooled 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 considered to be standard academic preparation.

- College Prep 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, or official GED Certificate,
3. Official ACT or SAT I score report and
4. Brief essay and recommendation letter strongly encouraged

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 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
- 19 or above on the ACT Assessment or 900 or above on the SAT I

PROVISIONAL ADMISSION A student will be granted Provisional Admission when the cumulative grade point average or 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 routinely utilize the services of the Dwyer Learning Center. Additionally, 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 will be expected to achieve a 2.0 grade point average upon completion of the first term of enrollment. Failure to do so will result in academic dismissal from the College.

ADMISSION DENIED A student who does not meet the College's entrance requirements and does not demonstrate the potential for success in a rigorous academic environment will be denied admission to Notre Dame College. At the time that admission is denied, the Director of Admissions will recommend an appropriate course of action for any student interested in pursuing a degree at Notre Dame College at a future date. Completing course work at a community college or retaking an entrance examination to enhance performance may be the recommended course of action.

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 credentials 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 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 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 post-secondary course work)
- Evidence of scholarship and the potential for scholarship as profiled on the academic transcripts and in the personal interview

PROVISIONAL ADMISSION A student will be granted Provisional Admission when her/his 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 no more than twelve (12) credit hours during her/his 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. Failure to do so may result in academic dismissal from the College.

ADMISSION DENIED A student who does not meet the College's entrance requirements and does not demonstrate the potential for success in a rigorous academic environment will be denied admission to Notre Dame College.

NON-TRADITIONAL STUDENTS

Non-traditional students are those who have graduated from high school five or more years prior to their first term of enrollment and who wish to complete course work primarily during the semester and/or summer sessions. Notre Dame College requires the following credentials from each non-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 or official GED certificate, and
3. Personal interview with an Admissions Counselor.

Non-traditional 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 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 scholarship as profiled on the academic transcript and in the personal interview

PROVISIONAL ADMISSION A student will be granted Provisional Admission when the 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 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. Failure to do so will result in academic dismissal from the College.

ADMISSION DENIED A student who does not meet the College's entrance requirements and does not demonstrate the potential for success in a rigorous academic environment will be denied admission to Notre Dame College. At the time that admission is denied, the Director of Admissions will recommend an appropriate course of action for any student interested in pursuing a degree at Notre Dame College at a future date.

WEEKEND COLLEGE STUDENTS

Weekend College students are those 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), 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 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 scholarship as profiled on the academic transcript and in the personal interview

PROVISIONAL ADMISSION A student will be granted Provisional Admission when the 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 no more than two (2) courses during her/his first term of enrollment. A student admitted provisionally will be expected to achieve a 2.0 grade point average upon completion of the first two terms of enrollment. Failure to do so may result in academic dismissal from the College.

ADMISSION DENIED A student who does not meet the requirements for either Full or Provisional Admission will be denied admission to Notre Dame College. At the time that admission is denied, the Director of Admissions will recommend an appropriate course of action for any student interested in pursuing a degree at Notre Dame College at a future date.

HOMESCHOOLED STUDENTS

Homeschooled students are those who have completed the equivalent of traditional secondary education by learning at home or elsewhere in the community. Notre Dame College requires the following credentials from each homeschooled student seeking admission:

1. Application for Undergraduate Admission accompanied by the non-refundable \$30 application fee,
2. A transcript or outline of the topics covered during the high school years,
3. Official ACT Assessment or SAT I score report, and
4. Two letters of recommendation that speak to the student's academic and personal qualities.

Homeschooled students who have attended a regionally accredited institution of higher learning following the equivalent of high school graduation will also be required to submit official academic transcripts from each college or university attended. Academic transcripts must be submitted directly to the Office of Admissions by the issuing 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 A student will be granted Full Admission when the following conditions have been met.

- 19 or above on the ACT Assessment or 900 or above on the SAT I
- Evidence of scholarship and the potential for scholarship as profiled on the academic transcript and letters of recommendation

PROVISIONAL ADMISSION A student will be granted Provisional Admission when the 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 routinely utilize the services of the Dwyer Learning Center. Additionally, the student will meet with the Director of the Learning Center to develop an action plan in order to develop the greatest possibility for academic success. A student admitted provisionally will be expected to achieve a 2.0 grade point average upon completion of the first term of enrollment. Failure to do so may result in academic dismissal from the College.

ADMISSION DENIED A student who does not meet the College's entrance requirements and does not demonstrate the potential for success in a rigorous academic environment will be denied admission to Notre Dame College. At the time that admission is denied, the Director of Admissions will recommend an appropriate course of action for any student interested in pursuing a degree at Notre Dame College at a future date. Completing course work at a community college or retaking an entrance examination to enhance performance may be the recommended course of action.

INTERNATIONAL STUDENTS

International students are those who legally reside in a country other than the United States of America. 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 English translations),
3. Official results of either the TOEFL (Test Of English as a Foreign Language) or certificate of completion of ELS Level 112 (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 Application,
6. Verification of Country of Birth and Citizenship form, and
7. Verification of Status form (applicable to F-1 status transfer students only).

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 these 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 a minimum score of 550 on the TOEFL or a minimum score of 112 on the ELS Proficiency Examination
- 2.5 cumulative grade point average on a 4.0 scale (most recent academic work)

ADMISSION DENIED A student who does not meet the College's standards necessary for Full Admission will be denied admission to Notre Dame College. At the time that admission is denied, the Director of Admissions will recommend an appropriate course of action for any student interested in pursuing a degree at Notre Dame College at a future date.

A 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. Immigration and Naturalization Service 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 of America.

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 and operative 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 her 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. Based on available funding, the College strives to meet 100% of each student's need or the direct cost of his/her education. 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 half-time 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

- Notre Dame College Merit-based Scholarships
- Notre Dame College Opportunity Grant
- Select High School Scholarship
- Sisters of Notre Dame Award
- Alumnae Association Scholarship
- Cleveland Scholarship Program Matching Grant

Endowed Awards

- The Joseph and Aldemira Alfonso Award
- The Edward B. Brandon Scholarship Fund
- The Sister Mary Aquinas and Sister Mary Clotilda Award
- The Arthur S. Armstrong Scholarship
- The Black Professionals Association Scholarship
- The Christopher Foundation Scholarship
- The Daniel S. Connelly Scholarship
- The Dan Connelly Award

The Albert and Veronica Conrad Award
 The Sister Mary Cordilia Award
 The Sister Jeanmarie DeChant Scholarship
 The Sister Mary LeRoy Finn Scholarship
 The GAR Foundation Scholarship Fund
 The Carl & Dorothy Harig English and
 Communication Award
 The Sister Mary Patricia Hlivak Award
 The Rev. Henry J. Hofer Award
 The H.C.S. Foundation Scholarship
 The John Huntington Scholarship
 The Honda Scholarship
 The Jean G. and Joseph H. Keller Scholarship
 The Laub Foundation Scholarship
 The Fred A. Lennon Scholarship
 The Joseph and Eleanore Loehr Scholarship
 The Catherine and F. Jerome McKeever Scholarship
 The Helen and Michael Earl McCloskey Award
 The McHugh Award
 The Joseph and Caroline Mersy Scholarship
 The Ruth A. and Loretta E. Mersy Scholarship
 The Sister Mary Cesarie Miday Award
 The Dorothy and Eugene J. Murray Award
 The Notre Dame College Alumnae Scholarship
 The Notre Dame College Faculty/Staff Scholarship
 The Sisters of Notre Dame Freshman Award
 The Corinne O'Neill Scholarship
 The O'Neill Science Endowment
 The H.M. O'Neill Scholarship
 The Sister Mary Patrice Award
 The Sister Mary Priscilla Award
 The Quinlivan/Burke Award for a student in English
 The Regis and Leona Reinhard Award
 The Smith Prochaska Scholarship
 The Sister Mary Marthe Reinhard Scholarship
 The Mary Louise Ruffing Student Award
 The Gertrude Schaeffer Scholarship
 The Marie M. Schoonmaker Scholarship
 The TRW Foundation Scholarship



The Ruth M. Seegert Award
 The Sherwin-Williams Scholarship Fund
 The Dan C. Smith Award (formerly known as the
 Taylor Smith Award)
 The Mary Strassmeyer Scholarship Fund
 The Marianne Artino Taylor Scholarship
 The John and Alma Tercek Scholarship
 The Monsignor J. Trivisonno Award
 The Tuesday Study Club Scholarship
 The Elizabeth Unkefer Scholarship
 The John C. and Florence M. Wasmer Foundation
 Scholarship
 The Howard R. Watkins Scholarship
 The Mary O'Brien Watkins Scholarship
 The Raymond John Wean Foundation
 The Thomas White Award
 The Stella Scarano Zannoni 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 her/his 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 (for academic year 2002-2003). 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 (for academic year 2002-2003) room/key/damage deposit is required. The deposit is transferable from year to year.

PAYMENT

It is the policy of Notre Dame College that all tuition, room, board and fees for a given semester be paid in full prior to the first day of instruction. Specific dates for payments are announced in advance of each semester.

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, she/he will be responsible for all tuition and fee charges.

If the student does not graduate at the prescribed time, the amount of the graduation fee will be applied to a future graduation at the rate in effect at the future time.





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.

student development

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 non-traditional. The Office of Student Life along with the Undergraduate Student Senate sponsors many programs on and off campus including comedians, interactive entertainment, dances, speakers, Little Sibs & Kids Weekend, Parents & Family Weekend, St. Patrick's Day Parade 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 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 seeks to encourage members of the Notre Dame College community to continue to develop their spiritual life and expand their awareness of the needs of the global community. Eucharistic liturgy is offered daily in the chapel and the sacrament of Reconciliation is celebrated seasonally. The campus minister is available to meet with any students who desire to create and offer prayer opportunities according to their personal needs and those that may stem from their faith tradition.

The campus ministry program encourages the Notre Dame College community to become involved in the larger metropolitan life of the Cleveland area. The community is invited to participate in outreach programs in the hope of deepening their awareness of their own blessings and to recognize the needs of others in the local community. Students are also encouraged to take advantage of diocesan leadership and retreat opportunities so that they might connect with other young adults in the Cleveland area.

The Baccalaureate Mass is prepared by graduating seniors as their final way of sharing their spiritual life together.

CAREER DEVELOPMENT

Career Development includes self-awareness and self-assessment, career and job market awareness, reality-testing and decision-making. Services are available to encourage career development and are provided to any student enrolled at Notre Dame College.

Services offered include graduate school advising, assistance with resume writing, interviewing and the job search process; posting of positions available and a resource library. Career inventories are available in the areas of personality, interests, aptitudes and values. On-campus recruiting opportunities, including an annual Career Day, are also provided.

COOPERATIVE EDUCATION

Cooperative Education and internships are programs that provide students the option of earning academic credit while gaining necessary work experience. They provide valuable insight and exposure to the working world, thus aiding the student in future career pursuits.

This part-time work is either study- or career-related and can last one semester or longer. Such work experiences can be paid or unpaid. Students in all majors are encouraged to apply. Coop is required of all Bachelor of Arts candidates. Cooperative Education experiences may be taken for academic credit. A maximum of six credit hours is accepted for

graduation, each credit hour requiring 45 hours of work. Tuition for credits earned through off-campus experience is the same as for all other courses.

The Director of Cooperative Education is a trained professional with experience in career counseling and the employment field. The director develops coop jobs, provides support for students and interacts with faculty to create a program that links academics to the work place.

COUNSELING

A professional counselor is available to meet with students on campus. The counselor is able to assist students in identifying, assessing, alleviating and coping with academic, social, spiritual, emotional and physical concerns. Students are encouraged to meet with the counselor individually or in small group sessions to explore the process of developing a holistic lifestyle.

A peer-counseling program is offered each semester to provide students with an opportunity to learn and practice active listening and communication skills.

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.

HEALTH SERVICES

Resident students needing health services may go to our contracted 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 full-time 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 two residence halls, Alumnae or Harks. They have the option of living on a non-smoking or a smoking floor. 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. They can be contracted as double or as private rooms. Telephone lines are provided by the College.

Resident Student Assistants (RSAs) 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 Resident Student Assistants are supervised by the Director of Student Life. The director is a full-time professional who resides on campus.

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 Cafeteria.

ORIENTATION

Orientation activities assist the student with her/his 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, which are usually held the weekend before classes begin in August. Students participate in social 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 also participate in a brief orientation so they are aware of the services available for their children.

In addition to acquainting students with individuals at the College, Orientation is designed to introduce students to the City of South Euclid and the surrounding suburbs, which offer abundant opportunities for students to get involved.

A separate Orientation for WECO students, non-traditional and transfer students is also planned according to the yearly schedule through the WECO Office and Student Development.

FYI

Appropriately called For Your Information, orientation to Notre Dame College continues during the first semester with a unique, small-group experience. The goals of this experience are to offer academic support to each new student and to provide a setting in which students can discuss a wide range of topics relating to campus life. Groups of 8-10 students meet regularly with faculty and staff mentors. Each group individually plans its own activities as it works toward the common goals of achieving academic success and developing a sense of community.

INTERCOLLEGIATE ATHLETICS

As a member of the National Association of Intercollegiate Athletics (NAIA) and the American Midwest Conference, Notre Dame College fields teams in volleyball, soccer, cross country, basketball, tennis, softball and track. All home contests are played in the College's physical education facility, the Joseph H. Keller Center and fields.

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 athlete's program is solid academic preparation and academic achievement. By providing opportunities for intercollegiate participation, the College rounds out its educational mission.

The program has been implemented through the inauguration of team sports focusing 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.

The objectives of the program are:

- to provide a wholesome and enriching experience for the skilled athlete through a carefully planned and conducted competitive sports program
- to meet the needs of the individual, not only physically, but intellectually and emotionally as well
- to have a variety of sports available, catering to the needs of our student body
- to contribute to the total growth and development of the student athlete.

INTRAMURALS AND RECREATION

Activities available on campus are swimming, volleyball, softball and basketball. All activities are held in the Joseph H. Keller Center, home of the six lane, 25 yard Mellen pool, The Lennon Fitness Center and The John Murphy Gym.

CLUBS AND ORGANIZATIONS

- Accounting Association
- Alpha Psi Omega (dramatics honorary)
- American Chemical Society
- American Institute of Biological Science
- Art Club
- BACCHUS
- Black Scholars
- Campus Activities Board
- Choir
- Commuter Board
- Intramurals
- Lambda Sigma (sophomore service)
- Masquers (dramatics)
- Notre Dame Education Council
- Notre Dame Environmental Club
- Notre Dame News
- Notre Dame Paralegal Society
- Pall Mall (English)
- Peer Counseling
- Phi Alpha Theta (history honorary)
- Phi Chi Theta (business honorary)
- Pivot (literary magazine/yearbook)
- Psychology Council
- Resident Association Board
- Senior Class
- STARS (Student Achievement Research and Scholarship)
- Undergraduate Student Government



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

CLUB OF THE YEAR

This award is given to the campus organization that works most successfully to improve the quality of student life by sponsoring programs and activities that promote campus involvement. Each year in Spring semester, clubs are invited to apply for this award. Members of the Student Development staff vote, and the award is presented at the Honors Convocation in April.

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, non-traditional and WECO students. Students and faculty have traveled to Italy, Greece, France, Germany, the Czech Republic, Slovakia, Austria and Spain. In 2002, students and faculty will travel to Italy. Financial assistance in the form of a small stipend is provided to all full-time students who travel with the group.

TRADITIONS

Notre Dame College maintains traditions on campus that students partake in on a yearly basis. The December Christmas Celebration is attended by students, faculty, staff and families. Honors Convocation at the end of the academic year invites all students to celebrate the closing of the year and receive awards in all disciplines. In addition, the College offers weekly Mass, as well as Masses for holy days of obligation, in the Chapel, thus affording students the opportunity to come together and celebrate their faith. The religious activities of the campus are an essential part of what characterizes Notre Dame College as a Catholic college.

Attendance at college wide events is an integral part of the learning experience and students are expected to participate in college wide activities.



Academic Policies and Procedures

CATALOG

A student plans course work according to the catalog under which she/he enters the College and remains continuously enrolled. If a new catalog is issued while a student is pursuing a degree, she/he 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 Vice President for Academic Affairs.

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

Limit of time A student may enroll continuously for a degree under a single catalog for a maximum of 10 years. After that time, the credits earned will be evaluated for current majors in the catalog that is operative at the expiration of the 10-year limitation.

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

LIBERAL ARTS EDUCATION

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. 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 provide a way for 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 (GER'S)

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 and competence	EN 110 or EN 100/101	Placement Test required
Oral Composition	3	A Public Speaking course	CA 100	
Information Systems or Placement	3	An introductory Computer course	BU 220	BU 120/or placement
Fine Arts	3	Art or Music History course Art or Music Appreciation course Selected Art Studio courses	AR101, AR 209, AR 221, AR 223, AR 290, AR 311, AR 312, AR 313, AR 314, AR 316, AR 377, MU 160, MU 211, MU 213, MU 320	
Literature	3	A Literature course (not Children's Literature)	EN 255, EN 256, EN 261, EN 262, EN 281 or any English Literature course numbered EN 337 or above	
Theology	5 or 6	A Theology course that includes the study of scripture	TH 150, TH 321, TH 322, TH 371, TH 372, TH 373, TH 374, TH 381, TH 382, TH 383, TH 384	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 322, PM 323, PM 324, PM 325, PM 326, PM 327	
		Theologies of Justice	TH 450 — Required	This course must be taken at Notre Dame.
Philosophy	6	Two Philosophy courses	Any 100, 200 or 300 level Philosophy course and PH 480 Current Ethical Problems & Positions	PH 180 is the recommended introductory course. PH 180 is not a prerequisite for other PH courses. 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 Foreign Language course A cross cultural or international Anthropology, Business, Literature, Social Science or Theology course A course associated with travel abroad	BU 450, EC 305, EC 440, EN 343, EN 459, FR 101, FR 102, FR 201, FR 202, HI 400, HI 441, HI 451, HI 471, SO 305, SP 101, SP 102, SP 201, SP 202, TH 370 See Schedule of Courses for the academic year for a complete listing.	
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 180/181, 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 Test required
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 (non-traditional 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, 50-minute class period for a semester of 15 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 carried a grade point average of at least 2.00 from the end of the second semester of the sophomore year and have maintained this average for subsequent semesters at the College.
- 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 2.50 average.
- have attended Notre Dame College for at least one year, preferably the senior year and shall have completed a minimum of 32 semester credits of course work at Notre Dame College.
- have at least 64 credit hours from a four year institution.
- have at least 45 credits of upper biennium (300-400) courses.

ASSOCIATE'S DEGREE PROGRAMS

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 16 semester credits of course work at Notre Dame College.

The following General Education Requirements form the foundation for all associate 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 at the freshman level 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 2.50 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 the same student at the time of graduation.

The student needs to 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)	Spanish (K – 12)
Art	English
Biology	Environmental Science
Chemistry	History/Political Science
Communication	Information Systems (Business Administration)
Education	Management (Business Administration)
Early Childhood (Pre-K – 3)	Marketing (Business Administration)
Middle Childhood (4 – 9)	Mathematics
Adolescent/Young Adult (7 – 12)	Paralegal Studies
Visual Arts (K – 12)	Psychology
Mild-Moderate Intervention Specialist (K – 12)	Theology

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

Biology
Chemistry
Mathematics

Interdisciplinary Majors

Graphic Communication (Art)	Integrated Social Studies (History/Political Science)
Human Resources Development (Business Administration)	Public Administration (History/Political Science)
Integrated Language Arts (English)	Public Relations (Communication)
Integrated Science (Biology based)	

Individually Designed Majors

The Individually Designed Major 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.

An Associate in Arts (AA) degree is available with these majors:

Business Management

Pastoral Ministry

Minors are available in these areas:

Art

Art History (Art)

International Business (Business Administration)

Biblical Studies (Theology)

Management (Business Administration)

Biology

Marketing (Business Administration)

Business Administration

Mathematics

Cell Biology (Biology)

Multimedia (Art, Business Administration)

Chemistry

Philosophy

Coaching (Health/Physical Education, Nutrition/Dietetics)

Physics

Communication

Political Science

Economics

Psychology

English

Sociology

Financial Services Management (Business Administration)

Spanish (Modern Languages)

Fine Arts

Theater

Graphic Communication (Art, Communication)

Theology

History

Women's Studies

Information Systems (Business Administration)

Writing (English)

TEACHER LICENSURE PROGRAMS

Early Childhood Education (Pre-K – 3)

Mild-Moderate Intervention Specialist

Middle Childhood Education (4 – 9)

Visual Arts

Areas of concentration for Middle Childhood Education:

Adolescent/Young Adult Education (7 – 12)

Mathematics

Integrated Language Arts

Reading/Language Arts

Integrated Mathematics

Science

Integrated Science: Biology-Based

Social Studies

Integrated Social Studies

Multi-age Licenses (P – 12)

Life Sciences

Spanish

Dual Science: Biology/Chemistry

CERTIFICATE PROGRAMS

Accounting (Business Administration)

Advanced Certificate in Pastoral Ministry

Basic Certificate in Pastoral Ministry

Business Administration

Information Systems (Business Administration)

Management (Business Administration)

Marketing (Business Administration)

Paralegal Studies

Teacher Education Evening Licensure (Education)

Theology Certification for Teaching Religion for
Grades 7-12

ALTERNATIVE METHODS OF LEARNING ASSESSMENT

Notre Dame College acknowledges the fact that learning acquired outside of 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. 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. 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. 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 the 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 define the project, 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 transportation costs and any laboratory or special course fees required for the host institution's course. Freshman students are not encouraged to cross-register. For further information, students should contact the Office of Student Records.

NON-CREDIT-BEARING PROGRAMS

Continuing Education Units (CEUs)

Notre Dame College is authorized to grant CEUs for seminars and workshops. CEUs are nationally recognized units of achievement which may be used as evidence of increased performance capabilities and for job advancement.

Each unit represents 10 clock hours or a representative part thereof in a formal learning situation. The CEU is not transferable in terms of academic credit or credit hours.

Senior Citizens

Notre Dame College invites men and women 60 years of age and older to take a course in the undergraduate programs for \$60.00 per course, as long as the course is not fully enrolled and all other conditions are met. Please contact the Office of Student Records for information.

Enrichment Courses

Enrichment courses are available. The course may not be taken for credit and all other conditions must be met. Please contact Office of Student Records for information.

OTHER POLICIES AND PROCEDURES

Classification of Students

Degree-seeking Student One who follows a planned program of studies at Notre Dame College leading to a degree. Minimum credit requirements for class standing are:

Sophomores 28 semester credits

Juniors 62 semester credits

Seniors 92 semester credits

Full-time Student One who carries 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 19 semester credits during a given semester.

Part-time Student A student who is registered for fewer than twelve 12 semester credits per semester.

Auditor 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 her/his own. Some examples of plagiarism include:

- Using phrases, sentences or ideas from a published source 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 copied from another source 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, she/he 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; her/his readmission is unlikely. All letters in the student’s file will be destroyed upon graduation.

Upon graduation, all materials referring to the incident of plagiarism are removed from the student’s file and destroyed.

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 (10 semesters) to complete requirements for a Bachelor's Degree. This is also true of certain majors and those who choose to earn a double major.

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, CR, NC.

Students may drop a course for significant reasons but normally are 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.

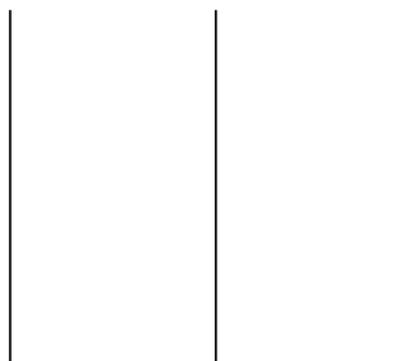
If a student has less than a 2.00 cumulative average, she/he is placed on academic probation. If a student does not make satisfactory academic progress, she/he may be declared academically ineligible by the Vice President for Academic Affairs.

The student will receive a letter regarding her/his 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 it is judged that the student be permitted to continue enrollment, the student may be eligible for certain portions of the financial aid package if she/he meets the other conditions for financial aid eligibility. The student needs to demonstrate satisfactory progress in the grade point average toward achieving and maintaining a 2.00 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 the course in which a final “F” grade is received is a required one, it 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.

(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 from the date of the assignment of the grade.

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 automatically is changed to an “F.”

W (Withdrawal) 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 the next 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 higher than the previous semester. If the student is dismissed, she/he may request reinstatement only under certain conditions. (Please see Reinstatement in the Admission section.)

Grades earned at Notre Dame College more than 10 years prior to readmission to the College will be used in the calculation of the student's grade point average but will not be used to determine whether a student is placed on academic probation.

WITHDRAWAL FROM COURSES

A course may be dropped and another added only during the first week of the semester. A course may be dropped 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 fourth 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," students must earn a grade point average of 3.50; for graduation "magna cum laude," they must earn an average of 3.75; for "summa cum laude," they must earn an average of 3.90. Furthermore, students must have earned at least 128 semester credits, including 64 from Notre Dame College with no "D+," "D," "D-", or "F" grades from any institution within 10 years of admission or re-admission.

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.

St. Catherine Of Alexandria Medal

Annually, the Medal of St. Catherine of Alexandria is awarded by Kappa Gamma Pi to a junior at Notre Dame College. The basis for the award is unusual and unselfish service to the College. The choice for the St. Catherine Medal is made by the College faculty.

Kappa Gamma Pi

The national Catholic college graduate honor society admits 10% of the graduating class to its membership. Graduating seniors are selected by the faculty. Criteria for membership include qualifications 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.

Lambda Sigma Society

Each year, based on scholarship, evidence of leadership and service to the College and the wider community, up to 10% of the freshmen are chosen for membership in the National Service Honor Society.

STUDENT DEVELOPMENT LEADERSHIP AWARDS

These awards are presented to students who have been leaders, not only in a formal way but also 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.

Business Administration

- Wall Street Journal Award for Excellence in Business for a graduating senior.
- Financial Executives Institute Outstanding Graduate Award for Accounting/Finance majors.

Chemistry

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

English/Communication/Theater

- Certificate for Excellence in English.
- Certificate for Excellence in Communication.
- Membership in Alpha Psi Omega Dramatic Fraternity for college dramatics.
- Pall Mall English Honorary Society Certificates for Excellence in English.

Fine Arts

- Certificate for excellence in Fine Arts.

Mathematics

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

Modern Languages

- Special Award in French for Excellence in Basic French.
- 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.
- Current Affairs Forum Award.

Psychology

- The John Arthur Award for Excellence in Psychology.

Theology

- American Bible Society Award for Excellence in Theology.

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, alumnae and faculty. The criteria include excellence in teaching, scholarship and College and community service.

Recent recipients of the award have been:

Anthony J. Zupancic, M.A.	1994
Marilyn S. Jones, Ph.D.	1995
Roslyn Scheer-McLeod, M.A.	1996
Helen M. Burdinski, S.N.D., D.B.A.	1997
Rachel Morris, M.A.	1998
Sandra Grassman, M.B.A.	1999
Beth Anne Tercek, S.N.D., Ph.D.	2000
Inge Schmidt, Ph.D.	2001

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, alumnae 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:

Nancy Curran McMahon, M.A.	1994
Sr. Mary St. Martha Conrad, S.N.D., 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





Academic Programs

ART

Studio and Professional Art Programs Goals

The student interested in the visual arts has three options within the fine arts department: studio art, art education or graphic communication. The majors seek to help the student develop his or her particular strengths in the chosen major and to prepare for a career in a field of visual arts either as a working artist, art educator or graphic designer. The strong program 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

47 credits

Program Goal:

1. The studio art major will gain studio skills in a variety of techniques and media that will qualify her or him for graduate studies or a career in the visual arts. Mastery of skills will be demonstrate in the form of a senior art exhibition.
2. The studio art major will gain expertise and studio competency that will allow her or him to present finished art in the form of a senior art portfolio. This portfolio will prepare the student for art competition or job interviews and serve as a record of studio progress.

Requirements:

AR 101, 102	Drawing I, II
AR 200	Calligraphy 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 341, 342	Painting I, II
AR 371	Three-Dimensional Design
AR 377	Ceramics
AR 491, 492	Senior Studio

3 credits from:

AR 295, 395, 495 Cooperative Education

6 credits in elective AR courses

Studio art majors will receive a junior review from the Fine Arts faculty 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 Fine Arts 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

54 credits

Program Goals:

1. The student will have exposure to and experience using the latest computer software and hardware. This will prepare the designer for entry level positions in the field of graphic design or for graduate school.
2. The student will accumulate a body of graphic design work in the form of a professional art portfolio that will demonstrate her or his ability to work in the graphic design field.

Art Requirements:

AR 101	Drawing I
AR 114	Introduction to Graphic Design
AR 209	Black and White Photography I
AR 221	Basic Design
AR 222	Color and Design
AR 223	Graphic Design I
AR 224	Graphic Design II
AR 300	Graphic Design III
AR 314	Impressionism to Today
AR 491	Senior Studio

3 credits from:

AR 295, 395, 495 Cooperative Education

3 credits in elective AR courses

Communication requirements:

CA 100	Elements of Speech
CA 250	Mass Communication
BU 220	Introduction to Computers
EN 110	Advanced Composition: Expository Writing

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

Recommended:

AR/BU 365 Web Site Design and Development

Graphic communication majors will receive a junior review from the Fine Arts faculty 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 Fine Arts Faculty.

MULTI-AGE LICENSE IN VISUAL ARTS (GR. P-12)

42 credits

AR 101, 102	Drawing I, II
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 114	Introduction to Graphic Design
AR 325	Printmaking I
AR 335	Art Methods: Secondary
AR 341	Painting I
AR 360	Art Methods: Elementary
AR 371	Three-Dimensional Design
AR 377	Ceramics I
AR 491	Senior Studio*

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

See Education for Professional Education Requirements.

* Senior Show options: All students seeking a B.A. degree in art education (P-12) must present their portfolio in the form of a senior art show and a final portfolio review prior to graduation and after taking AR 491.

FINE ARTS MINOR

18 credits

Art History Requirements—6 credits from:

AR 290	Related Arts: Visual Awareness
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	Black and White Photography I
AR 221	Basic Design
AR 222	Color and Design
AR 320	Fibers and Related Arts
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 or MU 212	Music History I, 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/CA 209	Black and White Photography I
AR 221	Basic Design
AR 223, 224	Graphic Design I, 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 290 Related Arts: Visual Awareness
 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 Black and White Photography I
 AR 223 Graphic Design I
 AR 320 Fiber and Related Arts
 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 300 Graphic Design III
 AR/BU 365 Web Site Design and Development
 BU 243 Multimedia Development
 BU 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. Deals with line and composition, light and shade, perspective and space, surface and structure. 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 with the method of problem solving, design fundamentals and 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 202 Calligraphy III 2 cr.
 Concentrated emphasis on contemporary and traditional layouts. One two-hour lab period weekly. Prerequisite: AR 201.

- 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, communication, and journalism. Student supplies manual camera and film. Two, two- and-one-half hour lab periods weekly.
- AR 210 Black and White Photography II 3 cr.
Continuation of AR 209; designed to further develop the student's technical and interpretive understanding of black and white photography. 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 PhotoShop and other current programs. 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. Prerequisite AR 221.
- AR 224 Graphic Design II 3 cr.
Continued studies in graphic design utilizing PhotoShop, Illustrator and other programs currently used in the professional industry with digital technologies such as the camera and scanner in order for the student to become adept in managing good design at this level. Projects generated will include more advanced design work and incorporate skills helpful to preparing professional looking publications. Two, two and one-half hour lab periods weekly. Prerequisite: AR 223
- 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 290 Related Arts: Visual Awareness 3 cr.
An investigation into themes and concepts which unite all of the fine arts. A look at the various purposes of art and discussion of the creative process and experience. A wide range of styles and subjects gives breadth and depth to the discussions.
- AR 300 Graphic Design III 3 cr.
Advanced graphic design work exploring the creative potential of the computer and practical experience in a variety of software programs and related hardware. 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, African and Asian art 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 320 Fibers and Related Arts 3 cr.
An introduction to weaving, basketry and related contemporary fibers arts, both functional and sculptural. Two, two-and-one-half hour lab periods weekly.
- 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 335 Art Methods: Secondary 3 cr.
Study of curriculum and instruction appropriate to aesthetic/artistic growth and development from junior high to senior high school levels. Field experience and practice teaching will be developed on an individual basis. Methods and materials are examined for classroom use.
- 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: Elementary 3 cr.
Study of curriculum and instruction appropriate to aesthetic/artistic growth and development for the elementary level student. Includes practice teaching. Methods and materials are examined for classroom use. Prerequisite: AR 221 or AR 280.
- AR 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: BU 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.
Basic methods of handbuilding in clay (pinch, slab, coil and combinations) as well as an introduction to wheel throwing. Includes 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 strengthening throwing skills and 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.
- 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. Topics will include marketing yourself and your artwork; matting, framing and photographing your work; slide, portfolio and show entry preparation, plus resume writing. 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

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 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 Lab
BI 302, 303 Mammalian Physiology and Lab
BI 320 Evolution
BI 460 Endocrinology
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
MA 145 Applied Calculus I or MA 175
Calculus I (preferred and strongly recommended for students intending to pursue graduate studies in medicine or research).

MA 221 Statistics I

PS 180, 181, 182, 183 Basic Physics and Lab or

PS 200, 201, 202, 203 College Physics and Lab

Completion of a FOREIGN LANGUAGE through the Intermediate (202) level is STRONGLY recommended due to the REQUIREMENTS of many GRADUATE SCHOOLS and MEDICAL SCHOOLS.

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
BU 260 Microcomputer 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 Lab
BI 302, 303	Mammalian Physiology and Lab
BI 320	Evolution
BI 418, 419	Limnology and Lab
BI 460	Endocrinology

BIOLOGY MINOR

The minor in biology is structured to be open to anyone who desires a good foundation of knowledge for our society's increasing concerns in the health and environmental fields. The courses have been selected to avoid problems with prerequisites.

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 the following:

BI 302, 303	Mammalian Physiology and Lab
BI 350	Genetics
BI 360, 361	Microbiology and Lab
BI 420, 421	Developmental Biology and Lab
BI 481 or 482	Coordinating Seminar

CELL BIOLOGY MINOR

This minor is proposed specifically for chemistry and dietetics/nutrition 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 302, 303	Mammalian Physiology 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 SCIENCES (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 Lab
BI 302, 303	Mammalian Physiology and Lab
BI 320	Evolution
BI 418, 419	Limnology and Lab
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 SCIENCES AND CHEMISTRY (GR. 7-12)

56 credits

Biology Requirements:

BI 110, 111, 112, 113	General Biology and Lab
BI 260	Ecology
BI 270	Cell Biology

10 additional credits from:

BI 300, 301	Mammalian Anatomy and Lab
BI 302, 303	Mammalian Physiology 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
CH 418, 419	Limnology 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 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 180, 181	Basic Physics and Lab

See EDUCATION for Professional Education Requirements.

SUMMER LABORATORY RESEARCH INTERNSHIPS

Notre Dame College is located in an area known for its major research universities and hospitals. Students are 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 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 dietetics, 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.
Lab is taken concurrently with BI 260; 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.
- 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 Mammalian Anatomy 3 cr.
A study of the visceral and structural systems making up an organism, with emphasis on mammalian anatomy. Structural studies of the skeletal, muscular, circulatory, respiratory, digestive, excretory, nervous and reproductive systems will be covered.
- BI 301 Mammalian Anatomy Laboratory 1 cr.
Laboratory studies will parallel the various systems covered in the lecture. The student will use dissections, 3-D models, computer simulations and experimentation to gain a better understanding of the various structural components of mammalian organ systems and anatomy. One three-hour laboratory weekly, taken concurrently with BI 300.
- BI 302 Mammalian Physiology 3 cr.
An in-depth study of mammalian physiology. Emphasis will be placed on the study of physiological regulation of the various organ systems at the molecular, cellular, organ and organ-system level. Prerequisite: BI 270.
- BI 303 Mammalian Physiology Laboratory 1 cr.
Laboratory study includes practical application of concepts learned in the lecture. The students gain experience operating laboratory equipment and computer interface programs to measure physiological processes. One three-hour laboratory weekly, taken concurrently with BI 302.

- BI 305 Biochemistry I 3 cr.
Study of the chemistry and metabolism of carbohydrates, lipids and proteins. Prerequisites: CH 211, 214; BI 270, 271
- BI 306 Biochemistry I Laboratory 1 cr.
Laboratory practice of biochemical techniques. Techniques include purification of proteins using chromatographic methods, gel electrophoresis, and spectrophotometric determination of protein concentration and enzymatic activity. 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 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.
This laboratory is taken concurrently with BI 330. 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.
- 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.
Advanced biochemical theory and techniques used in contemporary biochemical and molecular biology studies. Prerequisite: BI/CH 305 or the equivalent.
- BI 406 Biochemistry II Lab 1 cr.
Laboratory will focus upon theory and execution of molecular biology techniques. Techniques include preparation and analysis of DNA and RNA, enzymatic manipulation of DNA and polymerase chain reaction. One three-hour laboratory period weekly, taken concurrently with BI 405.
- BI 418 Limnology 3 cr.
An interdisciplinary course dealing with physical, chemical and biological characteristics of lakes, rivers, reservoirs and wetlands. Prerequisite: BI 112 and CH 114. BI 260 Ecology strongly recommended.
- BI 419 Limnology in the Field 1 cr.
Application and investigation of the physical, chemical and biological aspects of aquatic habitats; provides training in basic limnological methods for data collection and analysis. Taken concurrently with BI/CH 418.
- 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

45-47 credits

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

Requirements:

BU 155, 156	Accounting Principles I, II
BU 220	Introduction to Computers
BU 230	Marketing Principles
BU 232	Business Communications
BU 240	Management and Organization
BU 260	Microcomputer Applications in Business
BU 360	Corporate Finance
BU 473, 474	Business Law I, II
BU 395 or 495	Cooperative Education II or III
EC 201, 202	Principles of Micro- and Macroeconomics
MA 145	Applied Calculus I or
MA 220	Applied Finite Math
EC/MA 221	Statistics I

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

ACCOUNTING MAJOR

Goal:

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 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

HUMAN RESOURCES DEVELOPMENT MAJOR

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 student who majors in Human Resources Development will possess excellent interpersonal communication skills, will understand how a Human Resource professional works with an organization's management team and will be able to carry out the functions of job analysis and design, staffing, orienting, performance appraising and compensating.

Requirements:

BU 155, 156	Accounting Principles I, II
BU 220	Introduction to Computers
BU 232	Business Communications
BU 240	Management and Organization
BU 260	Microcomputer Applications in Business
BU 300	Principles of Supervision
BU 341	Human Resources Management
BU 345	Organizational Behavior
BU 355	Compensation and Benefits
BU 436	Labor Relations
BU 473, 474	Business Law I, II
BU 395 or 495	Cooperative Education II or III
EC 201, 202	Principles of Micro- and Macroeconomics
EC/MA 221	Statistics I
PY 201	General Psychology
PY 385	Tests and Measurements
CA 201	Interpersonal Communication or
SO 425	Conflict Management and Resolution
SO 305	Minority Groups

INFORMATION SYSTEMS MAJOR

Goal:

The Information Systems major will give students the conceptual knowledge as well as software, programming, analysis and project management skills to prepare them for careers in business or further graduate studies. The program stresses practical applications and field experience.

Requirements:

Entire Business Core Plus 27-29 credits in the following:

BU 222	Programming Logic and Design
BU 305	Information Systems Theory and Practice
BU 310	Systems Analysis
BU 323	Information Technology Hardware and Software
BU 335	Network Essentials
BU 350	Database Management Systems
BU 425	Project Management

Plus 2 of the following courses (and lab, if applicable) in a single track:

Programming Track:

BU 223	Visual Basic Programming
BU 224	Visual Basic Programming Lab
BU 333	Java Programming
BU 334	Java Programming Lab
BU 336	C++ Programming
BU 337	C++ Programming Lab

Multimedia/Web SiteTrack:

BU 243	Multimedia Development
BU 365	Web Site Design and Development
BU 443	Advanced Multimedia Development

It is strongly recommended that a student electing this track take AR 221 in addition to these courses.

MANAGEMENT MAJOR

Goals:

Students in Management are prepared to function as creative leaders in various positions in society. The student who majors in Management will have a thorough knowledge of the functions of management (planning, organizing, staffing, controlling) in large and small, for-profit and not-for-profit enterprises. She/he is well equipped to work as a mid-level manager, to continue her/his education in graduate school or to enter professional programs such as law, business or public administration.

Requirements:

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

BU 300	Principles of Supervision
BU 305	Information Systems Theory and Practice
BU 341	Human Resources Management
BU 345	Organizational Behavior
BU 435	Business and Government
BU 436	Labor Relations

MARKETING MAJOR

Goal:

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 and 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

Plus ONE of the following courses:

AR 223	Graphic Design I
BU 243	Multimedia Development
BU 365	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

MINOR IN BUSINESS ADMINISTRATION

Lower Biennium Prerequisites (16 credits):

EC 100	Economics and Contemporary Issues or
EC 201	Principles of Microeconomics
BU 155	Accounting Principles I
BU 230	Marketing Principles
BU 232	Business Communications
BU 240	Management and Organization

+ 12 credits in Upper Biennium Business Administration courses.

MINOR IN INFORMATION SYSTEMS

BU 222	Programming Logic and Design
BU 260	Microcomputer Applications in Business
BU 305	Information Systems Theory and Practice
BU 310	Systems Analysis
BU 323	Information Technology Hardware and Software

**MINOR IN FINANCIAL SERVICES
MANAGEMENT**

Lower Biennium Prerequisites (14 credits):

EC 201, 202	Principles of Micro- and Macroeconomics
BU 155, 156	Accounting Principles I, II

+ Required Upper Biennium Courses: 12 credits from the following:

BU 360	Corporate Finance
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):

EC 201, 202	Principles of Micro- and Macroeconomics
BU 155, 156	Accounting Principles I, II
BU 230	Marketing Principles

+ 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 (6 credits):

BU 232	Business Communications
BU 240	Management and Organization

+ Required Upper Biennium courses (12 credits):

BU 300	Principles of Supervision
BU 341	Human Resources Management
BU 345	Organizational Behavior
BU 436	Labor Relations

MINOR IN MARKETING

Lower Biennium Prerequisites (6 credits):

EC 201	Principles of Microeconomics
BU 230	Marketing Principles

+ 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:

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
AR 300	Graphic Design III
BU 243	Multimedia Development
BU 365	Web Site Design and Development
BU 443	Advanced Multimedia Development

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 catalogue as well as the General Education Requirements listed in the “Associate Degree Programs” section of the catalogue. In addition, the following courses are required for the management program:

BU 155	Accounting Principles I
BU 220	Introduction to Computers
BU 230	Marketing Principles
BU 240	Management and Organization
BU 260	Microcomputer Applications in Business
BU 341	Human Resources Management
EC 201	Principles of Microeconomics
EC 202	Principles of Macroeconomics
EC/MA 221	Statistics I

COURSE OFFERINGS

BU 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.

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 analyses 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 220 Introduction to Computers 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: BU 120 or computer placement test.

BU 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: BU 220.

BU 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 BU 224 Visual Basic Programming Lab. Prerequisite: BU 222. In the Weekend College format, the BU 223, BU 224 combination is numbered BU 225 and 226. 2,2 cr.

BU 224 Visual Basic Programming Lab 1 cr.
One 2.75 hour lab period weekly taken concurrently with BU 223 Visual Basic Programming. Lab provides hands-on experience working with the Visual Basic language. In the Weekend College format, the BU 223, BU 224 combination is numbered BU 225 and 226. 2,2 cr.

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 201.

BU 232 Business 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 240 Management and Organization 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 243 Multimedia Development 3cr.
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: BU 220.
- 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 260 Microcomputer Applications in Business 3 cr.
Focus on intermediate level skills in spreadsheet and database management packages. Emphasis on using the software tools to solve business problems. Prerequisite: BU 220.
- BU 295 Cooperative Education I 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 resource 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. Prerequisite: BU 230.
- 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. Prerequisite: BU 240.
- BU 305 Information Systems Theory and Practice 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: BU 220.
- BU 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.
- 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 323 Information Technology Hardware and 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: BU 220.

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 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 BU 334 Java Programming Lab. Prerequisite: BU 222. In the Weekend College format, the BU 333, BU 334 combination is numbered BU 331 and 332. 2,2 cr.

BU 334 Java Programming Lab 1 cr.
One 2.75 hour lab period weekly taken concurrently with BU 333 Java Programming. Lab provides hands-on experience working with the Java language. In the Weekend College format, the BU 333, BU 334 combination is numbered BU 331 and 332. 2,2 cr.

BU335 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: BU 220 and BU 323.

BU 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 BU 337 C++ Programming Lab. Prerequisite: BU 222.

BU 337 C++ Programming Lab 1 cr.
One 2.75 hour lab period weekly taken concurrently with BU 336 C++ Programming. Lab provides hands-on experience working with the C++ language.

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.

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.

BU 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: BU 222, BU 260 and BU 310.

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 and 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. Investigate effects of taxes on types of business ownership, analysis of financial ratios, capital budgeting, rates of return, risk analysis and mergers and acquisitions. Prerequisites: BU 156, EC 201-202.

- BU 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: BU 220.
- 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 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. Prerequisite: BU 230.
- BU 391 Selected Topics in Information 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.
- BU 392, 393, 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 II 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 425 Project Management and Practice 3 cr.
For advanced IS majors. Includes exploration of Project Management through case studies and projects. This course examines both the technical and behavioral aspects of project management within the context of information systems development. Students will participate in project teams throughout the semester. Prerequisite: senior standing and 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 443 Advanced Multimedia Development 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.

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

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

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, 492, 493, 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 III 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

46 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 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)

28 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 360, 361, 362, 363 Physical Chemistry 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

+ 6 additional credits in upper biennium chemistry.

BIOCHEMISTRY EMPHASIS

33 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 360, 361, 362, 363 Physical Chemistry and Lab
 CH 405, 406 Biochemistry II and Lab
 CH 410 Toxicology
 CH 444, 445 Analytical Chemistry II and Lab
 BI 112, 113 General Biology II and Lab
 BI 270, 271 Cell Biology and Lab

+ 6 additional credits in biology courses numbered BI 300 or higher

CHEMISTRY PRE-PROFESSIONAL EMPHASIS

33 Additional Credits

This program offers a comprehensive background for students wishing to attend Medical, Dental, Veterinary or Graduate Schools.

Requirements: Chemistry Core plus

CH 444, 445 Analytical Chemistry II and Lab
 CH 360, 361, 362, 363 Physical Chemistry and Lab
 CH 405, 406 Biochemistry II and Lab
 BI 270, 271 Cell Biology and Lab
 BI 300 Mammalian Anatomy
 BI 302 Mammalian Physiology
 BI 350 Genetics

+ 4 additional credits of upper biennium chemistry or biology

CHEMISTRY MAJOR: BACHELOR OF ARTS PROGRAM

52-53 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:

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
 CH 344, 345 Analytical Chemistry I and Lab
 CH 360, 361 Physical Chemistry I and Lab
 CH 427, 428 Coordinating Seminar
 CH 295 Cooperative Education
 MA 175 Calculus I
 MA 176 Calculus II or MA 221 Statistics I
 PS 180, 181, 182, 183 Basic Physics and Lab or
 PS 200, 201, 202, 203 College Physics and Lab
 + 6 additional credits of upper biennium chemistry.

CHEMISTRY/BUSINESS EMPHASIS

21 Additional Credits

Requirements: Bachelor of Arts program requirements plus:

CH 381 Technical Writing
 EC 201, 202 Principles of Micro- and 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 and Organization
 6 credits from the following:
 BU 300 Principles of Supervision
 BU 305 Information Systems Theory and Practice
 BU 341 Human Resources Management
 BU 345 Organizational Behavior
 BU 435 Business and Government
 BU 436 Labor Relations

CHEMISTRY MINOR

26 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
 course except CH 427, 428

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

56 credits

Biology Requirements:

BI 110, 111, 112, 113 General Biology and Lab
 BI 260 Ecology
 BI 270 Cell Biology

10 additional credits from

BI 300, 301 Mammalian Anatomy and Lab
 BI 302, 303 Mammalian Physiology 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
 CH 418, 419 Limnology 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 credits

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 180, 181 Basic Physics and 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 (usually two years) 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
PROJECTS**

Notre Dame College is located in an area known for its major research universities and hospitals. Students are 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.

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 3, 3 cr.
An introduction to the principles of inorganic chemistry with emphasis on quantitative relationships, atomic and molecular structure, solutions, chemical equilibrium and chemical kinetics. Prerequisite: 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.
Study of the chemistry and metabolism of carbohydrates, lipids and proteins. Prerequisites: CH 211, 214; Recommended: BI 270, 271

CH 306 Biochemistry I Laboratory 1 cr.
Laboratory practice of biochemical techniques. Techniques include purification of proteins using chromatographic methods, gel electrophoresis and spectrophotometric determination of protein concentration and enzymatic activity. 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 or PS 180, 181; MA 175.
- CH 361 Physical Chemistry Laboratory I 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 Laboratory II 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.
Advanced biochemical theory and techniques used in contemporary biochemical and molecular biology studies. Prerequisites: BI/CH 305 or the equivalent.
- CH 406 Biochemistry II Lab 1 cr.
Laboratory will focus upon theory and execution of molecular biology techniques. Techniques include preparation and analysis of DNA and RNA, enzymatic manipulation of DNA and polymerase chain reaction. One three-hour laboratory period weekly.
- 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. Pre- or corequisites: CH 211, 214.
- CH 418 Limnology 3 cr.
An interdisciplinary course dealing with physical, chemical and biological characteristics of lakes, rivers, reservoirs and wetlands. Prerequisite: one semester each of introductory chemistry and biology.
- CH 419 Limnology in the Field 1 cr.
Application and investigation of the physical, chemical and biological aspects of aquatic habitats; provides training in basic limnological methods of data collection and analysis. Taken concurrently with CH 418.
- 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 460 Endocrinology 3 cr.
An introduction to the critical role of hormones in normal and abnormal human physiology. The course uses a systems approach for understanding the role that hormones play in individual organ function and in coordinating functions of multiple organs. Prerequisite: CH 305, 306.

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 Goal:

All graduates of the Communication program will be qualified to pursue graduate work or a variety of careers requiring skills in advanced writing, problem-solving, critical thinking, critical listening and effective speaking.

COMMUNICATION MAJOR

33 credits

Requirements:

CA 201	Interpersonal Communication
CA 220	Newswriting
CA 250	Mass Communication
CA 374	Presentation Techniques
CA 401	Communication Theory
CA 395 or 495	Cooperative Education (3 cr.)

Two of the following:

CA 323	Writing for the Non-Print Media
CA 324	Writing for Publication
EN 210	Critical Writing
EN 318	Creative Writing

One of the following:

CA 305	Film Studies
CA 380	Organizational Communication
CA 403	Public Relations
CA 410	Television and Radio

One of the following:

CA 112	Oral Interpretation
CA 309	Acting and Directing
CA 313	Event/Play Production Apprenticeship

One of the following (in addition to the core literature requirement):

EN 461	Shakespeare's Comedies
EN 462	Shakespeare's Histories and Tragedies
EN 480	Great Books Seminar

COMMUNICATION MINOR

21 credits

Requirements:

CA 201	Interpersonal Communication
CA 220	Newswriting
CA 250	Mass Communication
CA 401	Communication Theory

Three of the following:

CA 112	Oral Interpretation
CA 305	Film Studies
CA 309	Acting and Directing
CA 313	Event/Play Production Apprenticeship
EN 318	Creative Writing
CA 323	Writing for the Non-Print Media
CA 324	Writing for Publication
CA 374	Presentation Techniques
CA 380	Organizational Communication
CA 403	Public Relations
CA 410	Television and Radio
CA 295, 395, 495	Cooperative Education (3 cr.)

PUBLIC RELATIONS MAJOR

57 credits

Program Goal:

Graduates of the Public Relations program will be prepared for entry level positions in public relations, promotions, advertising and related professions.

Requirements:

AR 221	Basic Design
AR 323	Graphic Design I
BU 230	Marketing Principles
BU 232	Business Communication
BU 390	Advertising
CA 220	Newswriting
CA 201	Interpersonal Communication
CA 250	Mass Communication
CA 374	Presentation Techniques
CA 401	Communication Theory
CA 403	Public Relations
CA 395 or 495	Cooperative Education (3 cr.)
EC 201	Principles of Microeconomics
MA 221	Statistics I
PY 201	General Psychology
	One literature course beyond the Liberal Arts Core requirements.

One of the following:

AR 324	Graphic Design II
CA 318	Creative Writing
CA 323	Writing for the Non-Print Media
CA 324	Writing for Publication

Two of the following:

CA 112	Oral Interpretation
CA 305	Film Studies
CA 309	Acting and Directing
CA 313	Event/Play Production Apprenticeship
CA 380	Organizational Communication

GRAPHIC COMMUNICATION MINOR

24 credits

This minor is offered jointly by the Fine Arts and the English/Communication/Theater disciplines.

Requirements:

CA 220	Newswriting
CA 250	Mass Communication
AR 114	Introduction to Graphic Design
AR/CA 209	Black and White Photography I
AR 221	Basic Design
AR 223, 224	Graphic Design I, II

One of the following:

CA 323	Writing for the Non-Print Media
CA 324	Writing for Publication

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 112	Oral Interpretation	3 cr.
	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 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 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 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 Theatre 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 Theatre 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 women's roles 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 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 required.

CA 403 Public Relations 3 cr.
Studies the historical antecedents and contemporary practice of public relations in America. Special emphasis is placed on day-to-day tasks, skills and responsibilities of practitioners. Opportunity for juniors and seniors to explore specific issues and meet professionals in the multi-faceted field of public relations.* Prerequisite: CA 220 or Department permission.

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

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

ECONOMICS

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

MINOR IN ECONOMICS

Lower Biennium Prerequisites (6 credits):

EC 201, 202 Principles of Micro- and
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 191, 192, 193, 194 Selected Topics 1 - 3 cr.

EC 201 Principles of Microeconomics 3 cr.
The first of a two-course sequence; this half 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 consent of instructor. MA 110 or equivalent recommended.

EC 202 Principles of Macroeconomics 3 cr.
The second half of the 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.

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 consent 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 consent 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 consent 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 consent 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 consent 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 consent 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 consent 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 consent 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, adolescent/young adult and multi-age education.

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

Program Goals:

Upon completion of the teacher education program the pre-service teacher will:

1. Master the knowledge base required for licensure area.
2. Work effectively with learners of diverse abilities, learning styles and cultural backgrounds.
3. Be active in pursuing partnerships with parents, colleagues and other stakeholders.

Religious Education Certification Diocese of Cleveland

Students planning to teach in Catholic elementary schools in the Diocese of Cleveland are required to have a course in the following three areas: Basic Beliefs and Tradition, Catechetical Methods and Faith Formation. The following courses offered at Notre Dame College fulfill all three Diocesan religious education certification requirements and may be taken as electives:

PM 318	Basic Beliefs & Faith Formation	2 Cr.
PM 319	Catechetical Methods	1 Credit

Students seeking licensure for AYA who are interested in teaching religion on the secondary level are encouraged to earn a minor in Theology. For further information refer to the Theology and Pastoral Theology and Ministry sections of the catalogue.

Early Childhood Education (Pre-K- 3)

Middle Childhood Education (GR. 4-9)

Areas of Concentration
 Reading and Language Arts
 Mathematics
 Science
 Social Studies

Adolescent/Young Adult Education (7-12)

Integrated Language Arts
 Integrated Mathematics
 Integrated Science (Biology Based)
 Integrated Social Studies
 Life Sciences
 Life Sciences/Chemistry

Multi-Age Education (Pre-K- 12)

Spanish
 Visual Art
 Mild Moderate Intervention Specialist

LICENSURE FOR EARLY CHILDHOOD EDUCATION (Pre-K - 3)

Notre Dame College Requirements (2)

TH 450	Theologies of Justice
PH 480	Current Ethical Problems

General Education and Curriculum Content Requirements:

Theology/Philosophy (2)
 PH 180 History of Western Philosophy
 TH 150 Introduction to Theology
 or any other philosophy and (scripture based) theology course

Communication (3)

EN 110	Advanced Composition: Expository Writing
CA 100	Elements of Speech
BU 220	Introduction to Computers

Natural Sciences (2)

BI 200/201	Environmental Science and Lab	OR
BI 105/106	Introduction to Biological Science and Lab	
CH 220/221	Earth Science and Lab	

Social and Behavioral Sciences (4)
 PY 201 General Psychology
 PO 200 World Geography
 HI 110 Western Civilizations from 1500
 HI 200 US History

Mathematics (2)

MA 130 Introduction to Contemporary Math I
 MA 131 Introduction to Contemporary Math II

Fine Arts (1)

AR 221 Basic Design OR
 AR 223 Art Appreciation: An
 Experimental Approach

English Literature (1)

Wellness (1)
 HP 110/112 Wellness for College Life

Cross Cultural (1)

A foreign language course
 Other designated cross cultural courses

Professional Education Core (7)

ED 202 Introduction to Education
 ED 204 Educational Psychology
 ED 205 Psychology of Students with
 Special Needs
 ED 301 Integrating Technology Across
 the Curriculum
 ED 410 Advanced Field Experience
 ED 413 Student Teaching: ECE
 ED 475 Issues in Education

Early Childhood Education Courses (12)

ED 221 Role of Phonics in Reading
 ED/PSY 253 Child Psychology
 ED 270 Foundations of Early
 Childhood Education
 ED 333 Reading Across the Curriculum
 in ECE
 ED 355 Assessment and Correction of
 Reading Disabilities
 ED 372 Special Needs Children in
 Early Childhood
 ED 373 Family, School and Community
 Relations in ECE
 ED 374 Music and Creative Arts in ECE
 ED 375 Physical Development and
 Movement Activities in ECE

ED 376 Developmental Reading Instruction
 In ECE
 ED 377 Integrated Methods in ECE:
 Mathematics, Science, Social Studies
 ED 378 Curriculum Planning and Design
 in ECE

LICENSURE FOR MIDDLE CHILDHOOD EDUCATION (GR. 4 - 9)

Notre Dame College Requirements (2)

TH 450 Theologies of Justice
 PH 480 Current Ethical Problems

General Education Requirements:

Theology/Philosophy (2)

PH 180 History of Western Philosophy
 TH 150 Introduction to Theology
 Or any other philosophy and (scripture based)
 theology course

Communication (3)

EN 110 Advanced Composition:
 Expository Writing
 CA 110 Elements of Speech
 BU 220 Introduction to Computers

Natural Science (1)

BI 105/106 Introduction to Biological Sciences
 and Lab OR
 BI 200/201 Environmental Science and Lab OR
 CH 220/221 Earth Science and Lab

Social and Behavioral Sciences (1)

PY 201 General Psychology

Mathematics (1)

MA 130 Introduction to Contemporary
 Math I OR
 MA 131 Introduction to Contemporary Math II

Fine Arts (1)

Any Art or Music course that fulfills General
 Education Requirements

English Literature (1)

Wellness (1)
 HP 110/112 Wellness for College Life

Cross Cultural (1)

A foreign language course
Any course designated as cross cultural

Professional Education Core (7)

ED 202 Introduction to Education
ED 204 Educational Psychology
ED 205 Psychology of Students with

Special Needs

ED 301 Integrating Technology Across
the Curriculum
ED 410 Advanced Field Experience
ED 412 Student Teaching: MCE
ED 475 Issues in Education

Middle Childhood Education Courses (6-7)

ED 221 Role of Phonics in Reading
ED 260 Foundations of Middle School
Education
ED 315 Teaching Reading in the Middle
School
ED 334 Adolescent/Young Adult Literature
ED 355 Assessment and Correction of
Reading Disabilities

Pick one or both according to areas of concentration

ED 320 Teaching Mathematics and Science
in the Middle School
ED 321 Teaching Language Arts and the
Social Studies in Middle School

Additional content credits needed for Areas of
Concentration (Choose two areas)

Mathematics (See Mathematics)
Reading and Language Arts (See English)
Science (See Biology or Chemistry)
Social Studies (See History/Political Science)

**LICENSURE FOR ADOLESCENT TO
YOUNG ADULT EDUCATION (GR. 7-12)
AND MULTI-AGE EDUCATION (Pre-K - 12)**

Notre Dame College Requirements (2)

TH 450 Theologies of Justice
PH 480 Current Ethical Problems

General Education Requirements:

Theology/Philosophy (2)

PH 180 History of Western Philosophy
TH 150 Introduction to Theology
Or any philosophy and (scripture based) theology course

Communication (3)

EN 110 Advanced Composition: Expository
Writing
CA 100 Elements of Speech
BU 220 Introduction to Computers

Natural Science (1)

Recommended: BI 200/201 Environmental Science
and Lab

Social and Behavioral Sciences (2)

PY 201 General Psychology
HI 110 Western Civilizations from 1500

Mathematics (1)

Any math course, MA 120 or higher

Fine Arts (1)

Any Art or Music Course that fulfills the General
Education Requirements

English Literature (1)

Wellness (1)
HP 110/112 Wellness for College Life

Cross Cultural (1)

Any foreign language
Any course designated as cross cultural

Professional Education Core (6)

ED 202 Introduction to Education
ED 204 Educational Psychology
ED 205 Psychology of Students with Special
Needs
ED 301 Integrating Technology Across the
Curriculum
ED 410 Advanced Field Experience
ED 421 Student Teaching: Secondary
ED 475 Issues in Education

Adolescent to Young Adult Core Courses (3)

ED 335 Reading in Secondary Education
ED 336 Curriculum Principles and Design in
Secondary Education
ED 337 Teaching Methods in Secondary
Education

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:

- Integrated Language Arts (See English)
- Integrated Science (See Biology)
- Life Sciences (See Biology)
- Life Sciences and Chemistry (See Biology or Chemistry)
- Integrated Mathematics (See Mathematics)
- Integrated Social Studies (See History/Political Science)
- Spanish: Pre-K to 12 (See Modern Languages)
- Visual Art: Pre-K to 12 (See Fine Arts)

MILD MODERATE INTERVENTION SPECIALIST CORE

- ED 221 The Role of Phonics in Reading
- ED 376 Developmental Reading Instruction
- ED 335 Content Area Reading AYA
- ED 352 Student Class Management
- ED 353 Assessment of Special Needs
- ED 355 Assessment and Correction of Reading Disabilities
- ED 315 Teaching Reading in Middle School
- ED 377 Integrated Methods in ECE
- ED 354 Instructional Strategies in Mild Moderate
- ED 336 Curriculum Principles AYA
- ED 378 Curriculum Planning in ECE
- ED 330 Collaborative Teaming
- ED 414 Student Teaching in Mild Moderate
- EDL 210 Planning for Instruction
Ursuline College

TEACHER EDUCATION EVENING LICENSURE PROGRAM (GR. 7-12 AND P-12)

23-30 credits

This program is designed for those students who already hold a baccalaureate degree and wish to pursue a career in secondary school teaching. (See special bulletin of information for the TEEL program available from the Admissions counselor.)

Required professional education courses:

- ED 204 Educational Psychology: Learning and Human Abilities
- ED 205 Psychology of Students with Special Needs
- ED 301 Integrating Technology Across the Curriculum
- ED 335 Content Area Reading in Secondary Education
- ED 336 Curriculum Principles and Design in Secondary Education
- ED 337 Teaching Methods in Secondary Education
- ED 410 Advanced Field Experience
- ED 421 Student Teaching: Secondary

Major field of study. (Students must complete all content licensure requirements of the teaching field.)

CLINICAL/FIELD-BASED EXPERIENCE

The Professional Education program includes clinical and field-based experiences that provide for observation and practice. They are designed to meet the new Ohio Teacher Education and Licensure Standards. Each student completes clinical/field-based experience in culturally, racially and socioeconomically diverse settings. Placements are made as an integral part of each of the professional education courses taken.

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. Twenty (20) hours of clinical/field experience are required.

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. Ten (10) hours of clinical/field experience are required. Prerequisite: PY 201 or equivalent.

ED 205 Psychology of Students with
Special Needs 3 cr.
Overview of the lifespan 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. Ten (10) hours of clinical/field experiences are required. Prerequisite: PY 201.

EDL 210 Planning for Instruction (Ursuline) 3 cr

ED 221 The Role of Phonics in Reading 3 cr.
Nature and 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 253 Child Psychology 3 cr.
Presents the current research and theories of human growth and development of children from conception to adolescence. Emphasis on the interaction of biological, psychological and sociocultural influences on normal development. The integrated human being is considered in terms of physical, social, cognitive, emotional, aesthetic and moral development. Prerequisite: PY 201.

ED 260 Foundations of Middle School
Education 3 cr.

This initial course includes a review of current research and theories of human growth and development from puberty through adolescence. The course also provides an overview of the history, philosophy and goals of teaching students in grades 4-9 with an emphasis on the appropriate curriculum organization, the need for integrating the curriculum and multiple strategies for evaluating and assessing student performance. The course also includes strategies for involving family and community in the education of middle grade students. Fifteen (15) hours of clinical/field experience are required. Prerequisite: ED 202.

ED 270 Foundations of Early Childhood
Education 3 cr.

This course explores early childhood in relation to the historical, sociological, and philosophical foundations of current thought and practice. Critical examination of various developmentally appropriate early childhood models, educational technology in the classroom and issues of

inclusion and cultural pluralism as they relate to early childhood. Students will also study the integration of principles and practices in educating young children through structured observation of children. Ten (10) hours of field/clinical experience required. Prerequisite: ED 202.

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. Clinical/field experience required. Prerequisites: ED 204 and BU 220 or placement)

ED 315 Teaching Reading in the
Middle School 3 cr.

Study of the nature of the reading process with focus on recent research, the IRA standards and the Ohio Model Curriculum relevant to the teaching and the integration of reading and study skills in the middle grades. Stresses the role of the teacher as decision-maker in selecting and adapting pertinent methods, media, materials and learning experiences to meet diverse student needs. Special emphasis is placed on professional evaluation of teaching potential. Twenty-five (25) hours of clinical/field experience including a pre-student teaching segment are required. Prerequisites: ED 202, ED 204, ED 221, ED 260, and formal admission to the Education Department.

ED 320 Teaching Math and Science in the Middle
School: An Integrated Approach 3 cr.

Study of the principles, methods and materials involved in planning, teaching and assessing mathematics and science learning as an integrated approach across the middle grades. The course utilizes recent research, the NCTM and NSTA standards, the Ohio Model Curriculums in selecting and adapting appropriate content, teaching strategies and learning experiences to meet diverse student needs. Twenty (20) hours for each concentration area of clinical/field experience are required. Prerequisites: ED 202, 204, 260 and formal admission to the Education Division.

ED 321 Teaching Language Arts and Social
Studies in the Middle School:

An Integrated Approach 3 cr.

Study of the principles, methods and materials involved in planning, teaching and assessing mathematics and science learning as an integrated approach across the middle grades. The course utilizes recent research, the NCTE and NCSS standards, the Ohio Model Curriculums in selecting and adapting appropriate content, teaching strategies and learning strategies to meet diverse student needs. Twenty (20) hours for each concentration area of clinical/field experience are required. Prerequisites: ED 202, 204, 260 and formal admission to the Education Division.

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 through knowledge and comprehension of the positive aspects of collaboration. The student will demonstrate a working knowledge of the IEP team including the consultative role of professionals in related services.

ED 333 Reading Across the Curriculum in ECE 3 cr.

A study of the strategies for teaching reading in all areas of the P-3 curriculum. Includes use of both expository text and content-oriented literature. Prerequisites: ED 202, ED 204, and formal admission to the Department of Education.

ED 334 Adolescent & Young Adult Literature 3 cr.

A study of the strategies for using literature in teaching. Includes use of both expository text and adolescent literature. Focus on study, reference, and research skills. Prerequisites: ED 202, ED 204 and formal admission to the Department of Education.

ED 335 Content Area Reading in
Secondary Education 3 cr.

Designed for teaching students with diverse learning needs in reading. Focus on assessment of concepts and skills, development of varied teaching strategies for comprehension, reference and study skills in reading print/nonprint materials and their relation to writing. Emphasis will be placed on the role of schema theory and metacognition in the reading process, and the role of writing and adolescent literature in the content classroom.

ED 336 Curriculum Principles and Design in
Secondary Education 3 cr.

An examination of the curriculum principles and theory which influence planning, developing and implementing the Ohio Curriculum Models in the school and in the classroom. Emphasis is placed on instructional design, selected models of teaching with focus on teaching thinking skills and assessment of adolescent learners. Twenty (20) hours of clinical/field experience are required. Prerequisites: ED 202, ED 204.

ED 337 Teaching Methods in Secondary
Education 3 cr.

This course expands and builds upon the topics encountered in ED 336 which lead to interdisciplinary teaching and learning. Focus will be on lesson structure for separate licensure classroom management, effective communication skills, modifying instruction for students with special needs and the integration of technology. Perspectives for Holistic Effective Teaching (PHET) Model provides the mechanism for student planning and self-assessment while developing a teaching portfolio and engaging in extensive microteaching sessions. Thirty (30) hours of clinical/field experience are required. Prerequisites: ED 202, ED 204, ED 336 or approval of advisor and formal admission to the Department of Education.

ED 352 Student Class Management 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.

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. Evaluations used to make decisions are examined through case studies.

ED 354 Instructional Strategies for Mild/Moderate 3 cr
Instructional strategies for the student with mild and moderate disabilities provides both the theoretical and practical aspects of developing students with special needs' Individual Education Plan. 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. Ten to fifteen (10-15) hours of clinical/field experience are required. Prerequisite: ED 221, ED 315, 335 or 376.

ED 361, 362 Field Experience 1 - 3 cr
A career exploration experience through involvement in a variety of classroom settings. Required structured observations, tutoring, teacher-aide and small group instruction in assigned chartered school settings under the supervision of a selected classroom teacher. (Forty-five (45) clock hours of field work are equivalent to one semester hour of credit.)

ED 372 Special Needs Children in ECE 3 cr
The focus is the education of children with special needs in the early childhood classroom. The course addresses the characteristics of specific disabilities, related laws and regulations, developmental evaluation, community resources and agencies, communication with and role of the family and classroom curriculum which is both developmentally and exceptionally appropriate. Students will learn how to collaborate with multidisciplinary personnel. Ten (10) hours of clinical/field experience are required in programs which include children with special needs. Prerequisites: ED 204, ED 205, ED 270.

ED 373 Family, School and Community Relations in ECE 3 cr
A study of the culture of schools as well as the roles and techniques both for effective relationships and partnerships with families and communities as they become actively involved with early childhood education programs. Ten (10) hours of clinical/field experience are required. Prerequisite: ED 270.

ED 374 Music and Creative Arts in ECE 3 cr
This course focuses on appreciation for and the integration of art and music 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. Ten (10) hours of clinical/field experience are required in early childhood programs. Prerequisites: ED 204, ED 270.

ED 375 Physical Development and Movement Activities for Children in ECE 3 cr
Based on current research on physical development, this course will focus on the development of physical skills in children. Emphasis in the four main skill areas: locomotor, ball-handling, gymnastic skills and rhythmic activities. Students will also learn the importance of good health, nutrition and safety for young children; first aid procedures, information on communicable diseases and child abuse, and how to implement activities recommended by the OT/PT for children with developmental delays or disabilities. Ten (10) hours of clinical/field experience in P-3. Prerequisites: ED 204, ED 270.

ED 376 Developmental Reading Instruction for Children 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. Students will be exposed to environments that facilitate and foster growth in listening, speaking, phonics, reading, writing skills and use of current technology. Emphasis on assessment of children's progress in literacy development, appropriate teaching methodologies and the integration of this holistic approach throughout the entire curriculum for young children of diverse learning needs. Fifteen (15) hours of clinical/field experience are required. Prerequisites: ED 202, ED 204, ED 221, ED 270 and formal admission to the Department of Education.

ED 377 Integrated Methods in ECE: Mathematics, Science, Social Studies 3 cr.
A systematic multidisciplinary approach in the development of teaching strategies, methodologies and appropriate integration of math, science and social studies into the early childhood curriculum. This course focuses on developing a framework of conceptual knowledge in each of these curricular areas using exploration, discovery and problem solving for children of diverse learning needs. Twenty (20) hours of clinical/field experience are required in P-3. Prerequisites: ED 202, ED 204, MA 130, HI 100, BI 200/201 or CH 220/221; formal admission to the Education Department.

ED 378 Curriculum Planning and Design for ECE 3 cr.
Focus on the development and implementation of an integrated curriculum design into all areas which meet the needs of all children between 3-8 years of age. Exposure to current theories, appropriate curricular materials, technology, instructional methodologies, classroom management and nurturing environments for young children. A unit for planning and administering early childhood programs which includes serving parents and community. Fifteen (15) hours of clinical/field experience are required in P-3. Prerequisites: ED 376, ED 377 and formal admission to the Education Department.

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

ED 410 Advanced Field Experience 2 cr.
Five (5) weeks of school-based experience scheduled immediately prior to student teaching in the same semester. Emphasis on beginning semester orientation of students. Guided observations and increasing classroom involvement preliminary to student teaching. Attendance at scheduled on-campus seminar is required. Prerequisite: Department approval.

ED 412 Student Teaching: Middle Childhood 6, 10 cr.
Provides a minimum of 10 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.

ED 413 Student Teaching: Early Childhood 6, 10 cr.
Provides a minimum of ten (10) weeks of student teaching in a chartered school in the early childhood classrooms (Pre-K-3) under the supervision of a cooperating teacher and a college supervisor. Prerequisite: Department approval.

ED 421 Student Teaching: Secondary 6, 10 cr.
Provides a minimum of 10 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. N.B. Student teaching for multi-age licensure will be done in part at the secondary level and also at the early or middle childhood levels.

ED 475 Issues in Education 3 cr.
An integrative seminar which focuses on an understanding of various philosophies of education, 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 do a research paper/project on an issue and to develop a personal philosophy of education. Prerequisite: Formal admission to the Education Department, junior/senior status.

ED 491, 492, 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

34-37 credits

Requirements:

CA 112	Oral Interpretation
EN 210	Critical Writing
EN 312	History of the English Language
EN 395 or 495	Cooperative Education (1-3 cr.)
EN 462	Shakespeare's Histories and Tragedies
EN 480	Great Books Seminar

One of the following:

EN 220	Newswriting
EN 318	Creative Writing

EN 323 Writing for the Non-Print Media

EN 324 Writing for Publication

5 courses in British, American or world literature, 3 of which must be upper-biennium courses.

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 World Literature:
Epics and Poetry

EN 256 Introduction to World Literature: Prose

EN 261 The Drama and Theatre

EN 262 Modern Drama and Theatre

EN 281 The Short Story

3 courses in British, American, or world literature.

WRITING MINOR

15 credits

Requirements:

EN 210 Critical Writing

EN 220 Newswriting

EN 318 Creative Writing

Two of the following:

CA/EN 323 Writing for Non-print Media

CA/EN 324 Writing for Publication

CA 295, 395, 495 Cooperative Education (3 cr.)

Choose one of the following:

EN 210 Critical Writing

EN 318 Creative Writing

EN/CA 324 Writing for Publication

Choose one of the following:

CA 250 Mass Communication

EN/CA 323 Writing for the Non-Print Media

CA 410 Television and Radio

Choose one of the following:

CA/TR 309 Acting and Directing

CA/TR 313 Event/Play Production Apprenticeship

CA 374 Presentation Techniques

Choose one of the following:

EN 341 Main Currents in American
Literature to 1900

EN 342 Seminar in American Literature

Choose two of the following:

EN 255 Introduction to World Literature:
Epics and Poetry

EN 256 Introduction to World Literature: Prose

EN 261 The Drama and Theatre

EN 262 Modern Drama and Theatre

EN 331 British Literature to 1700

EN 332 British Literature 1700-1900

EN 369 British & American Novels since 1800

EN 460 Literature of Continental Europe

EN 461 Shakespeare's Comedies

Choose two from the following:

EN 343 Major African-American Writers

EN 370 20th Century British and
American Poetry

EN 380 Studies in Major Writers

EN 381 Women Playwrights

EN 382 Women Writers

EN 459 Postcolonial Literature

See EDUCATION for Professional Education Requirements.

ADOLESCENT TO YOUNG ADULT LICENSE (GR. 7-12) AND MAJOR IN INTEGRATED LANGUAGE ARTS

39 credits

Requirements:

EN 220 Newswriting

EN 312 History of the English Language

EN 314 Workshop in Advanced Grammar

EN 462 Shakespeare's Histories and Tragedies

EN 480 Great Books

AREA OF CONCENTRATION IN READING AND LANGUAGE ARTS FOR MIDDLE CHILDHOOD LICENSE (GR. 4-9)

24 credits

Requirements:

CA 112 Oral Interpretation

CA 250 Mass Communication

EN 312 History of the English Language

EN 314 Workshop in Advanced Grammar

Choose one of the following:

CA 220 Newswriting

EN 210 Critical Writing

EN 318 Creative Writing

Choose one of the following:

EN 331 British Literature to 1700

EN 332 British Literature 1700-1900

Choose one of the following:

EN 341 Main Currents in American
Literature to 1900

EN 342 Seminar in American Literature

Choose one of the following:

EN 255 Introduction to World Literature:
Epics and Poetry

EN 256 Introduction to World Literature: Prose

EN 281 The Short Story

EN 381 Women Playwrights

EN 382 Women Writers

See EDUCATION for Professional Education Requirements.

ENGLISH MAJOR WITH A PRE-LAW CONCENTRATION

37-39 credits

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, cooperative education, advising and pre-professional testing.

Requirements:

CA 112 Oral Interpretation

EN 210 Critical Writing

EN 220 Newswriting

EN 312 History of the English Language

Choose one of the following:

EN 323 Writing for Non-Print Media

EN 324 Writing for Publication

EN 395/495 Cooperative Ed. (in a legal field)

EN 462 Shakespeare's Histories and Tragedies

EN 480 Great Books Seminar

Five literature classes, at least three of which must be upper-level classes

Choose one for the core theology requirement:

TH 150 Introduction to Theology

TH 321 Old Testament Theology

Choose one for the core philosophy requirement:

PH180 Introduction to Western Philosophy

PH 320 Philosophy of Person

PH 330 Logic

Choose as many as possible to fulfill the social science requirement, and as electives

PY 201 General Psychology (recommended)

PY 210 Social Psychology

PY 375 Psychology of Personality

HI 341 Colonial and Revolutionary America

HI 351 Slavery, Sectionalism and Civil War

HI 361 American in the 20th Century

PO 111 Introduction to Politics & Government

PO 310 American Government

PO 324 Constitutional Law (recommended)

SO 201 Introduction to Sociology

SO 310 Social Institutions

SO 425 Conflict Management and Resolution

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. Students are placed in EN 207 on the basis of their performance on NDC's writing assessment.
- 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 World Literature: Epics and Poetry 3 cr.
A study of representative epics and poems with an emphasis on their relevance to the development of civilization. *
- EN 256 Introduction to World 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 Theatre 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 EN 262. *
- EN 262 Modern Drama and Theatre 3 cr.
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 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. *
- EN 314 Workshop in Advanced Grammar 3 cr.
A systematic study of structural/transformational grammar with applications to writing, revising and editing, literary analysis and teaching English language arts. Recommended for English majors and minors and required for those preparing for careers in teaching.*
- EN 318 Creative Writing 3 cr.
Develops skill in imaginative writing: poetry, fiction and non-fiction.*
- EN 323 Writing for the Non-Print Media 3 cr.
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.
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 turn of the 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 380 Studies in Major Writers 3 cr.
Focused study of selected authors. *
- 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 390 Studies in Genre 3 cr.
A focused study of a selected genre. *
- 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.
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.
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 books, 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

57 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 381 Technical Writing
- CH 4xx Coordinating Seminar
- BI 110, 111, 112, 113 General Biology & Lab
- BI 200,201 Ecology & Lab
- BI 260,261 Environmental Science & Lab
- BI 360,361 Microbiology & Lab
- BI 418,419 Limnology & Lab
- 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

** 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	24 (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 catalogue 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 catalogue 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 COACHING

20-26 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.

- BI 230, 231 Basic Anatomy & Physiology and Lab
- HP 153 Care and Prevention of Athletic Injuries
- HP 321 Applied Exercise Physiology
- HP 350 Applied Kinesiology
- HP 230 Skills for Coaching Team and Individual Sports
- HP 400 Practicum in Coaching
- HP 215 Nutrition for Athletes
- PY/HP388 Psychology and Ethics of Coaching

Suggested Electives

- HP 213 Stress Recognition and Management
- HP 291,292 Advanced Coaching Skills

COURSE OFFERINGS

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 non-traditional age 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 2 cr.
Methods of preventing common athletic injuries. CPR, Safety Education and discussion of blood borne pathogens. ARC 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.
Physiology of the stress response, effects on body organs and systems, implications for health and relationships. Examination of internal and external stress. Techniques for identifying and effectively managing personal lifestyle stress.
- HP 215 Nutrition for Athletes 3 cr.
Basic principles of nutrition stressing components necessary for the maintenance of good health and optimal athletic performance.
- HP 230 Skills for Coaching Team and Individual Sports 3 cr.
Development of a foundation of coaching techniques, strategies and organizational skills for a selected group of sports.
- HP 280 Nutrition for Lifetime Wellness 3 cr.
A study of the nutritional components necessary for the maintenance of good health and the prevention of disease.
- HP 315 Understanding Women's Sexuality 3 cr.
A holistic health perspective focused on understanding women's sexuality as a composite of her total being. Topics include anatomy, physiology and health of the reproductive system; sexual behavior and the emotional, psychosocial, spiritual components of sexual choices; sexuality and the life cycle; sexually transmitted diseases; gender issues and sexuality. This course is an elective for the Women's Studies Minor.
- 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 and health maintenance. Preq: PY 201
- HP 388 Psychology and Ethics of Coaching 3 cr.
An exploration of the psychology and philosophy of the coaching experience and the player/coach relationship. Topics include: team and player motivation, leadership, dynamics, communication, goal setting, performance evaluation.
- HP 391, 392 Selected Topics 1-3 cr.
- HP 491, 492 Independent Study 1-3 cr.
An opportunity for qualified students to do independent work in health science. Topics, hours and credits to be arranged.
- 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. Preq. BI 230/231
- 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. Preq: BI 230/231
- 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 and political science with a concentration in either discipline as well as a minor in both fields.

HISTORY/POLITICAL SCIENCE MAJOR

History Concentration

39 credits

Goal:

The history facet of the History/Political Science program requires the student to analyze the social, political and economic culture of the world civilizations. It focuses on cultivating and refining critical thinking, 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 and policy studies.

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 18 credits in history are required. Six (6) credits must be completed in political science. Three (3) of the 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 concentration. 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.

Political Science Concentration

36 credits

Goal:

The political science facet of the History/Political Science program 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 and government. It cultivates and refines the student's research, writings and critical thinking skills.

Requirements

PO 111	Introduction to Politics and Government
PO 210	American Government
PO 450	Senior Research Seminar
PO 495	Senior Practicum

An additional 18 credits in political science is required. The student must also complete six (6) credits in history.

MINOR IN HISTORY

18 credits

Requirements:

HI 110	Western Cultures from 1500
HI 200	Major Themes in American History
EN 210	Critical Writing

An additional nine (9) credits in upper level history courses are required for completion of the program. Three (3) credits must be in a non-European and non-American content area.

MINOR IN POLITICAL SCIENCE

18 credits

Requirements:

PO 111	Introduction to Politics and Government
PO 210	American Government
PO 312	International Relations

An additional nine (9) credits in political science are required to complete the program.

HISTORY MAJOR WITH A PRE-LAW CONCENTRATION

Committed to educating students in the liberal arts for personal, professional and global responsibility, Notre Dame College suggests that students interested in a law career prepare themselves with a pre-law concentration. Notre Dame's broad liberal arts foundation, enriched by a rigorous major in History, provides students with the opportunity to develop exceptional strengths in critical reading and writing, logical reasoning, analytical thought and moral responsibility to oneself and others. In choosing this academic program, it is essential for the student to be in regular communication with an advisor as soon as possible, 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 18 hours in History are required. Six (6) credits must be completed in Political Science. Three of the 18 credits in History must be from the following courses: HI 210, HI 330, HI 332, HI 333, HI 334.

NDC Core:

CA 100	Elements of Speech	3 cr.
EN 110	Advanced Composition (or EN 100/101)	3 (6)
TH 450	Theologies of Justice	3
PH 480	Current Ethical Problems and Positions	3
BU 220		3
Fine Arts		3
Science with lab		4
Mathematics		3
Health and Wellness		3
Cross-Cultural/International Studies		3
		31

58 – 60 credits

A student needs another 58-60 credits to build the 128 minimum needed for the BA degree.

For the two required theology classes, it is strongly recommended to choose from these:

TH 150	Introduction to Theology
TH 321	Old Testament Theology
TH 410	Christian Moral Living

For the one required philosophy class, it is strongly recommended to choose from these:

PH180	Introduction to Western Philosophy (recommended)
PH 320	Philosophy of Person (recommended)
PH 330	Logic (recommended)
PH 355	Political Philosophy

Although only one social science class is required, students planning to study law need a strong background in the social

sciences. 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
EN 220	Newswriting
CA 324	Writing for Publication
EN 462	Shakespeare's Histories and Tragedies
EN 480	Great Books

Any other 300 level or higher course in literature

PL 330	Legal Research and Writing (recommended)
PO 111	Introduction to Politics and Government
PO 310	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)

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

INTERDISCIPLINARY MAJOR IN PUBLIC ADMINISTRATION

56-58 credits

In addition to the common core, students pick a concentration from Human Resource Management, Financial Resource Management or Political Practice. They may also opt to design their own concentration.

Core Courses (38 credits):

PO 111	Introduction to Politics and Government
PO 210	American Government
PO 313	Public Policy in America
PO 412	Public Administration
PO 450	Senior Research Seminar
PO 495	Senior Practicum
BU 155-156	Accounting Principles
BU 232	Business Communications
BU 240	Management and Organization
EC 201-202	Principles of Economics

Concentration in Human Resource Management

(18 credits):

BU 300	Principles of Supervision
BU 341	Human Resources Management
BU 345	Organizational Behavior
BU 436	Labor Relations
EC 480	Labor Economics
SO 425	Conflict Management and Resolution

Concentration in Financial Resource Management

(20 credits):

BU 255-256	Intermediate Accounting
BU 360	Corporate Finance
BU 370	Investments
BU 435	Business and Government
EC/PO 432	Public Finance

Concentration in Political Communication (18 credits):

BU 230	Marketing Principles
BU 301	Consumer Behavior or
BU 390	Advertising
CA 201	Interpersonal Communication
CA 250	Mass Communication
CA 374	Presentation Techniques
CA 403	Public Relations

Students may also choose, with the help of their advisor, to design a concentration of their own. Some possibilities are public policy regarding energy and/or the environment, with course work in the sciences or public health and nutrition issues, with course work in nutrition.

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	Introduction to Politics and Government
PO 210	American Government
PO 311	Comparative Politics
HI 450	Senior Research Seminar

Geography:

GO 200	World Geography
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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 200	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)

24 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 210	American Government
SO 201	Introduction to Sociology

Choose one from the following:

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

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 3cr.
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/WS301 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.

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.

HI311 Forging the American Nation: The United States from 1820-1900 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.

HI 312 America Ascendant: The United States in the 20th Century 3 cr.
Traces the development of the United States into a world superpower, focusing on the reforms of Progressive Movement, New Deal, New Frontier/Great Society and 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

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

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.

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.

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.

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

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.

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.

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.

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 World War II.

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.

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.

HI 410 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.

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 3 cr.

COURSE OFFERINGS**Political Science**

PO 111 Introduction to Politics and Government 3 cr.
This course is an introduction to concepts, ideas, procedures, institutions, theories, processes and political behavior associated with the international state system with emphasis on the American political system; the origins and development of the state, its functions, structure and organization.

PO 210 American Government 3 cr.
This course examines the U.S. political structure with emphasis on the Constitution, its origins and content; the branches of national government; survey of state and local government; study of parties and interest groups.

PO 311 Comparative Politics 3 cr.
This course will examine the development of European, Asian and African governmental systems within a comparative framework.

PO 312 International Relations 3 cr.
This course examines the basic factors which motivate nations in their contacts with one another, including the modern state system, nationalism and militarism. Problems arising from conflicting national policies, international institutions and implications for war and peace.

PO 313 Public Policy in America 3 cr.
This course examines how public policy (on, e.g., crime, welfare, education and culture) is made and implemented in the United States. Special attention will be paid to success and failure of such policy. Case studies are used.

PO/HI 315 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, inter-governmental relations, the commerce, taxing, treaty and war powers and the Bill of Rights and their influence on American government and society.

PO/HI 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

PO 411 International Law 3 cr.
This course explores 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

PO 412 Public Administration 3 cr.
This course examines the problems and current trends in public administration. Emphasis will be placed on different approaches to administration based on specialization in the field (e.g., federal worker vs. state or local, Congressional vs. policy development.)

PO 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 political science and senior standing

PO 495 Senior Practicum 3 cr.
Open to qualified students who have had basic courses in political science. Opportunity to work on special project or investigation that must be completed to the satisfaction of the instructor assigned by the department.

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

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 four areas below. In addition, it is recommended that students complete PH 330 Logic, which fulfills a General Education Requirement.

Common Major Requirements 27 cr.

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 12 cr.

MA 363	Numerical Analysis I	3 cr.
MA 410	Differential Equations II	3 cr.
MA 415	Introduction to Real Analysis	3 cr.
MA 452	Discrete Structures	3 cr.

II. Statistics Emphasis 12 cr.

MA 221	Statistics I	3 cr.
MA 300	Statistics II	3 cr.
MA 321	Computational Statistics and Data Analysis	3 cr.
MA 416	Advanced Probability and Statistics	3 cr.

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)

21 or 22 credits

Requirements:

MA 130	Contemporary Mathematics I	3 cr.
MA 131	Contemporary Mathematics II	3 cr.
MA 221	Statistics I	3 cr.
	Math elective (MA 120 or higher)	3 cr.

Choose one of the following:

MA 145	Applied Calculus I	3 cr.
MA 175	Calculus I	4 cr.

Choose two of the following:

MA 300	Statistics II	3 cr.
MA 310	Number Theory	3 cr.
MA 330	Modern Geometry	3 cr.
MA 332	Introduction to Discrete Mathematics	3 cr.

See EDUCATION for Professional Education Requirements.

MATHEMATICS MINOR

20 credits

Requirements:

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.

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 175
MA 221	MA 110	MA 131
MA 220	MA 330	MA 120
MA 145		

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 (usually two years), 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 DESCRIPTIONS

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 Contemporary Mathematics I 3 cr.
General preparation in mathematics for early childhood and middle school educators. Set theory, numeration systems, number theory, properties of and operations with real numbers, finite mathematical systems and modular systems, basic concepts of Euclidean geometry, non-Euclidean geometry. Prerequisite: MA 110 or equivalent. (Placement Test Required)

MA 131 Contemporary Mathematics II 3 cr.
General preparation in mathematics for early childhood and middle school educators. Logic, counting methods, permutations and combinations, an introduction to probability and statistics. Prerequisite: MA 110 or equivalent. (Placement Test Required)

MA 145 Applied Calculus I 3 cr.
Functions, limits and continuity, the derivative, differentiation of polynomial, logarithmic and exponential functions and applications. Prerequisite: MA 120 or equivalent. (Placement Test Required)

MA 146 Applied Calculus II 3 cr.
Continuation of MA 145. Definite and indefinite integrals, applications, functions of several variables and partial derivatives. Prerequisite: MA 145.

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 \mathbb{R}^3 , 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. Prerequisite: MA 332.
- MA 321 Computational Statistics and Data Analysis 3 cr.
Introduction to the applications of various data analysis techniques to include interpretation of multiple regression and analysis of variance results, discriminant analysis and canonical correlation, principal component analysis and factor analysis with emphasis placed on the use of computer statistics packages. Prerequisite: EC/MA 300.
- 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, eigenvalues, 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.
- 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 the sequence MA 130, 131, 145.
- 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 280.
- 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 415 Introduction to Real Analysis 3 cr.
Structure of the real number system, topology of the real numbers, sequences and series of numbers and functions; Lebesgue integration, Banach spaces and approximation theory. Prerequisites: MA 277, MA 332.

MA 416 Advanced Probability and Statistics 3 cr.
Sample space, discrete and continuous probability functions, combinatorics, random variables, densities and distributions, expected values, moment-generating functions, special distributions and estimation. Prerequisite: MA 176 and EC/MA 300.

MA 432 Modern Algebra 3 cr.
Groups, rings, fields, normal subgroups, congruence, quotient groups, ideals, quotient rings, equivalence relations, abstract algebraic structures. Prerequisite: MA 332.

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.

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:

SP 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

3 courses from the following:

SP 321, 322	Readings in Modern Hispanic Literature I, II
SP 334	Latin American Literature
SP 365	Spanish for Business
SP 367	The Spanish Classic Period
SP 473, 474	Cervantes and the Masterpieces of Spanish Literature

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
SP 350	Spanish Methods P-12

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

Student teaching is required at both the P-6 and the 7-12 levels.

See EDUCATION for Professional Education Requirements.

SPANISH COURSE OFFERINGS

- SP 101, 112 Basic Spanish I, II 4, 4 cr.
Essentials of the language for understanding, speaking, reading, writing.
- SP 111, 112, 113 Basic Spanish 3, 3, 3 cr.
Essentials of the language for comprehension, speaking, reading, writing. Offered in the WECO program.
- 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 350 Spanish Methods P-12 3 cr.
Study of the theories and processes of curriculum development and their application to the teaching of Spanish. Includes identifying the purposes and theoretical underpinnings of a variety of teaching strategies. Provides opportunities to acquire decision-making skills related to planning, managing and evaluating instruction. Involves field experience at the appropriate grade levels.
- 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 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 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 160 Music Appreciation 3 cr.
An 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

PARALEGAL STUDIES PROGRAM

American Bar Association Approved

Goals:

1. To provide the student with a general legal education in American civil law, legal ethics, legal research, writing and professionalism.
2. To foster critical thinking, effective communication skills and the application of legal knowledge in the law office setting.

Courses in Paralegal Studies are offered only in the Weekend College. Students who qualify may take courses fulfilling the General Education Requirements during the traditional semester or in the Weekend College.

BACCALAUREATE PARALEGAL STUDIES MAJOR

51 credits

Admission Requirements for the Paralegal Studies
Baccalaureate Major

- Interview with Director of Paralegal Studies
- On-site written statement, earning a grade of "A" or "B"
- Acceptance to the Weekend College

Requirements:

PL 101	Introduction to the Paralegal Profession
PL 103	Torts
PL 105	Civil Procedure
PL 109	Contracts
PL 203	Wills, Trusts and Probate
PL 260	Microcomputer Applications in Law
PL 301	Business Organizations
PL 325	Evidence and Litigation Support
PL 330	Legal Research and Writing
PL 345	Computerized Legal Research
PL/PO 324	Constitutional Law
PL 420	Domestic Relations
PL 440	Paralegal Professional Seminar
PL 490	Paralegal Internship

4 courses from PL 391-394 Selected Topics

CERTIFICATE IN PARALEGAL STUDIES

39 credits

Admission Requirements For The Paralegal Studies Certificate

- Interview with Director of Paralegal Studies Program
- On-site written statement earning a grade of “A” or “B”
- Basic computer knowledge equivalent to BU220
- Acceptance to the Weekend College
- College degree prior to completion of Certificate

The Paralegal Studies Certificate Program is designed for those who have earned, or are currently pursuing, an accredited college degree, which shall have been completed before the Certificate is conferred.

Requirements:

PL 101	Introduction to the Paralegal Profession
PL 103	Torts
PL 105	Civil Procedure
PL 109	Contracts
PL 203	Wills, Trusts and Probate
PL 260	Microcomputer Applications in Law
PL 301	Business Organizations
PL/PO 324	Constitutional Law
PL 325	Evidence and Litigation Support
PL 330	Legal Research and Writing
PL 345	Computerized Legal Research
PL 420	Domestic Relations
PL 440	Paralegal Professional Seminar
PL 490	Paralegal Internship

COURSE OFFERINGS

PL 101 Introduction to the Paralegal Profession 3 cr.
This course introduces the student to the professional responsibilities of the paralegal. Students focus upon the role of the paralegal in the law office setting, the legal system, ethical considerations, various practice areas and trends in legal employment. Students have the opportunity to observe two legal professionals in the workplace.

PL 103 Torts 3 cr.
This course provides the student with a basic foundation of the law pertaining to personal injury including intentional torts, negligence and product liability. Students develop the ability to analyze and evaluate facts and law.
Co/Pre-requisite: PL 101

PL 105 Civil Procedure 3 cr.
This basic course provides a working knowledge of the Ohio Rules of Civil Procedure and their applicability in the practice of law, including pleadings, motions and other papers. The student learns many basic aspects of litigation as well as how to draft basic legal documents. The student also obtains a working knowledge of the court system. A tour of the Common Pleas Court of Cuyahoga County is included.
Prerequisite: PL 103.

PL 109 Contracts 3 cr.
The general principles, application, breaches and remedies of contract law are examined. Included are the concepts of offer, acceptance, consideration, unilateral and bilateral contracts, promissory estoppel, unjust enrichment, the Statute of Frauds and parole evidence. Prerequisite: PL 101.

PL 260 Microcomputer Applications in Law 3 cr.
This course focuses on advanced computer skills utilized in the legal office setting. Prerequisites: PL 101, BU 220.

PL 203 Wills, Trusts, and Probate 3 cr.
Study of the common forms of wills and trusts, including the law governing their formation in Ohio. The administration of the decedent’s estate is examined, including the determination of probated assets, estate and inheritance tax, the preparation of appropriate documents and understanding the function and operation of the probate court. Prerequisite: PL 101

PL 301 Business Organizations 3 cr.
This course focuses on the paralegal’s role in the law office which deals with business entities or corporate legal departments, including information regarding sole proprietorship, agency, partnership, corporation and legal professional associations. Students will learn how to draft documents for partnership agreements and corporations. Additionally, the course will examine tax considerations, Securities and Exchange Commission ramifications and Sub-chapter S filings. Prerequisite: PL 101.

PL 325 Evidence and Litigation Support 3 cr.
This course incorporates the rules of evidence, civil procedure and ethical considerations with the tasks essential to the litigation process. Emphasis is on the discovery and trial phase of litigation. Students are encouraged to take this course immediately following PL 105 Civil Procedure.
Prerequisite: PL 105.

PL 330 Legal Research and Writing 3 cr.
Designed to provide the student with an in-depth understanding of legal research and the law library, the course assists in developing research skills through the use of the reporter systems, digests, legal encyclopedias and practice manuals. Basic legal writing is emphasized throughout the course, culminating in a legal memorandum exploring legal issues. Prerequisites: PL 103 or 109.

PL 345 Computerized Legal Research 2 cr.
This course introduces students to the fundamentals of computer-assisted legal research. The students receive training in formulating, processing, compiling and evaluating research via LEXIS and WESTLAW, the Internet and other computer-based resources. Emphasis is on the relationship between traditional manual research methods and computer-assisted research. This course is designed to refine the analysis and writing skills which the students developed during Legal Research and Writing. Students are encouraged to take this course immediately following PL 330. Prerequisites: PL 260, 330.

PL 391-4 Selected Topics 1-3 cr.
Course offerings include the following: Business and Financial Transactions, Criminal Law and Procedure, Debtor-Creditor/Bankruptcy, Employee Benefits Law, Environmental Compliance and Litigation, Estate Planning, Health Law, Intellectual Property, Labor and Employment Relations, Medical Research and Records, Real Property. Courses selected are based on an annual student interest survey. Check with Director regarding appropriate prerequisites.

PL 420 Domestic Relations 3 cr.
Introduces the student to basic family law, including the handling of the prenuptial agreement, annulment, dissolution, divorce, child custody, child support, visitation, alimony and adoption. Emphasis is placed on legal theory and its application in dealing with clients in the law office setting. Prerequisites: PL 105, 330.

PL 440 Paralegal Professional Seminar 1 cr.
This seminar examines professional concerns that face the paralegal in the law office setting with emphasis on ethical considerations and professional trends. Students share and compare their experiences in the legal profession.

PL 490 Paralegal Internship 1-6 cr.
This internship provides a practical field experience in a law firm, legal department of a corporation or governmental agency for 45 actual hours per credit. Prerequisite: Approval by the Director of Paralegal Studies after memorandum of proposed internship is submitted the previous term.

PL 491, 492, 493, 494, 495, 496
Independent Study 1-6 cr.
Students have an opportunity to work on special projects within the legal profession.

PASTORAL THEOLOGY AND MINISTRY

Courses are offered both on and off campus and can be taken for credit or non-credit by NDC 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 credit course.

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

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 all 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 two 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 322	The Pentateuch
PM 323	The Historical Books
PM 324	The Gospels
PM 325	Wisdom and Prophets
PM 326	Revelation and other Apocalyptic Writings
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
PM 342	Catechetical Leadership

Liturgy

PM 220	Ministry and Liturgy
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ASSOCIATE DEGREE WITH A MAJOR IN PASTORAL MINISTRY

Advanced Certification Program courses can be applied to an Associate Degree. See Associate of Arts Degree, page 29, 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 107, 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 220 Ministry and Liturgy 2 cr.
Covers the meaning and principles of liturgy with special emphasis on the theology of the Sunday Eucharist, major seasons of the Church year, practical skills in planning and critiquing liturgies.

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 creating a budget, reading financial statements, doing strategic planning, working with volunteers and office organization 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 322 The Pentateuch 2 cr.
Traces Israel's beginnings as a people in the creation and patriarchal narratives. Listens to the call to holiness in the traditions of the People of God then and now.

PM 323 The Historical Books 2 cr.
Presents the history and theology of Israel in the biblical books of Joshua, Judges, Samuel and kings with implications for Christian "salvation history."

PM 324 The Gospels 2 cr.
Compares and contrasts the origins and themes of the four Gospels of the New Testament.

PM 325 Wisdom and Prophets 2 cr.
Emphasizes the origins and characteristics of Israelite prophecy as it impacts us today. The wisdom tradition of Israel, content, literary form and development is also explored.

PM 326 Revelation and other Apocalyptic Writings 2 cr.
Analyzes the literary form and implications of the Book of Revelation and other biblical apocalyptic writings and discusses their meaning for today.

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 342 Catechetical Leadership 1 cr.
Examines the various roles of catechetical leaders. Aspects of spirituality, education and management will be researched, presented and discussed.

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 goals of the liberal arts include these:

- Seeing right relationships
- Separating the essential from the details
- Asking timeless questions
- Learning to support one's position with clarity and persuasion
- Developing one's unique powers of thought in order to avoid conformity and prejudice

Philosophy is at the center of a liberal education because it aims directly at these skills. PH 180 is highly recommended at the beginning of one's college career. The electives offer principles and insights into the major sub-disciplines of philosophy. All students are required to take the ethics course (PH 480) to learn how to analyze both the critical questions of right and wrong in our time and to identify and use the various competing philosophical positions in response to these questions.

Philosophical thinking can be applied in any life situation: it teaches general problem solving, powers of clear and persuasive communication and writing that is well-ordered, coherent and complete.

Careers that are especially dependent on philosophy are law, politics, theology, journalism and 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

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 320 Philosophy of Person 3 cr.
A philosophical consideration of what it means to be human. Discussion of issues concerning knowledge, freedom, love, embodiment, relationships. Readings from classical and contemporary authors. PH 180 recommended.

PH 330 Logic 3 cr.
An introduction to both formal and informal logic, focusing on deductive reasoning. This course will cover Aristotelian logic, propositional and predicate logic, as well as formal and informal fallacies. 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 Aesthetics 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 400 Existentialism 3 cr.
A study of the major thinkers of the existentialist tradition and their contributions to the ongoing conversation of the history of philosophy. In addition, the course will draw the student's attention to the ways in which existentialist thought has influenced present-day literature, art, education and movements such as feminism. PH 180 recommended.

PH 410 Newman's Human Approach to Truth 3 cr.
A seminar based on Newman's An Essay in Aid of a Grammar of Assent. The seminar includes segments of the 19th century philosophical setting for questions of human knowledge; Newman's approach to the questions and his response by way of a new definition of proof; related developments in the 20th century, particularly those of Bernard Lonergan, S.J., and Michael Polanyi. Finally, the Newman approach will be tested in current debates such as those between religion and science. Available in the on-line format only. PH 180 recommended.

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. Open to Sophomores, Juniors and Seniors.

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

PS 180 Basic Physics I 3 cr.
A general physics course covering the principles of mechanics and heat with emphasis on applications to biological systems. Prerequisite or corequisite: MA 120.

PS 181 Basic Physics I Laboratory 1 cr.
One three-hour laboratory period weekly.

PS 182 Basic Physics II 3 cr.
A general physics course covering optics, electricity, magnetism, atomic and nuclear physics. 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 3 cr.
Study of linear and angular kinematics and dynamics for point

masses and systems of masses; conservation of momentum; simple harmonic motion. Prerequisite or co-requisite: MA 175.

PS 201 College Physics Laboratory I 1 cr.
One three-hour laboratory period weekly.

PS 202 College Physics II 3 cr.
Electricity, introduction to Maxwell's equations, electromagnetic waves, introduction to optics. Prerequisite: PS 200.

PS 203 College Physics Laboratory II 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.

PSYCHOLOGY

A student completing a major in psychology will be prepared for graduate level work in psychology and for further training and certification in the mental health field.

PSYCHOLOGY MAJOR

47 Credits

Requirements:

A. Psychology Core:

PY 201	General Psychology
MA/PY 221	Statistics I
PY 307	Experimental Design

- PY 400 Practicum or
- PY 402 Observation***
- PY 401 Practicum Seminar

B. 2 courses from each of the 4 areas of concentration:

1. Clinical/Counseling

- G PY 303 Counseling Theories and Practice
- G PY 370 Psychology of the Abnormal
- G PY 375 Psychology of Personality
- PY 406 Group Dynamics and the Problem Solving Process

2. Developmental

- PY 204* Educational Psychology
- PY 253 Child Psychology
- PY 254 Psychology of the Young Adolescent
- PY 300 Psychology of Women
- G PY 351 Psychology of Adult Development

3. Biopsychology/Cognitive

- PY 315 Sensation and Perception
- PY 320 Behavior Genetics
- G PY 380 Cognitive Psychology
- G PY 410 Biopsychology

4. Social/Organizational **

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

C. 9 additional credits in upper biennium electives

1. Any upper biennium courses from the four areas of concentration (not used to fulfil requirement B).
2. Upper biennium special topics may include:
 - Psychology of Film and Literature
 - Sport Psychology
 - 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 of the department chair

PSYCHOLOGY MINOR

22 Credits

Requirements:

A. Psychology Core:

- PY 201 General Psychology
- PY 303 Counseling Theories and Practice
- PY 307 Experimental Design
- MA/PY 221 Statistics I

B. Three courses (9 credits) from 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 and principles of social and industrial organizations.

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

PY 240 Management and Organization 3 cr.
 See BU 240 for course description.

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 Psychology of the Young Adolescent 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.
Investigates the role of psychology in industry, business and government with emphasis on understanding employees, employee management relationships and behaviors. Prerequisite: PY 201.
- PY 300 Psychology of Women 3 cr.
Based upon current research and theory, this course examines the unique psychological aspects of women including such topics as personality, physiology, social, cultural and political background. Prerequisite: PY 201.
- PY 307 Experimental Design 4 cr.
Delves into the exciting world of research. Students design, conduct, and analyze data. Research reported from simple and multifactor experiments may result in a publishable paper. Prerequisites: PY 201, MA/PY 221.
- PY 303 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 315 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 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. Preq: PY 201
- PY 320 Behavior Genetics 3 cr.
Investigates the influence of both nature and nurture on human behavior. Special emphasis is placed on family, twin and adoption studies in the areas of intelligence, personality, criminality and psycho-pathology. 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 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 test theory in the areas of personality, careers of achievement and intelligence. Test construction, reliability, validity and a survey of frequently used psychological tests are covered. Prerequisites: PY 201, MA/PY 221.
- PY 388 Psychology and Ethics of Coaching 3 cr.
An exploration of the psychology and philosophy of the coaching experience and the player/coach relationship; Topics include: team and player motivation, leadership, communication, imagery, goal setting, stress management.
- 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. Prerequisite: admission granted on an individual basis by the program chairperson.

PY 401 Practicum Seminar 1 cr.
Meets concurrently with Practicum experience. Provides group exchange, encourages deeper understanding of professional experience and examines application of concepts to a community agency or other mental health setting. It must be taken concurrently with PY 400 or PY 402.

PY 402 Senior Observation 3 cr.
Supervised observations of differing psychological settings. Students interview professionals in community agencies or other sites. Admission granted on an individual basis only by the program chairperson.

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.

PY 410 Biopsychology 3 cr.
A study of the central and peripheral nervous systems and their relationship to psychological functions. Focus on the biological underpinnings of human behavior. 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 330 Current Perspectives in Gerontology 3 cr.
An introduction to the study of aging as a normal developmental process; theories of aging; the impact on society of both the individual aging process and the increase in population of older Americans.

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

SO 400 Senior Experience 3 cr.
Hands-on experience in social research or in a social service agency.

SO 401 Seminar in Sociology 1 cr.
The seminar will help students integrate previous course materials with experiential learning.

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	Forms of Public Speech
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.
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.
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.
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.
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.
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.
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.
Analysis and discussion of the works of selected women playwrights of the twentieth century.*

TR 461 Shakespeare's Comedies 3 cr.
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.
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 Theologies of Justice, 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 earn certification 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 her/his mission in this world.

THEOLOGY MAJOR

36 credits

Requirements:

TH 150	Introduction to Theology
TH 304	Christian Worship
TH 321	Old Testament Theology
TH 322	New Testament Theology
TH 330	Contemporary Church

TH 380	Christian Culture and Tradition
TH 400	Christian Spirituality for Today
TH 420	The Jesus of History, The Christ of Faith
TH 450	Theologies of Justice
TH 495	Cooperative Education

Plus additional credits in Upper Biennium Theology to total 36.

Courses taken through the Pastoral Ministry program, if in the content areas above, fulfill the requirements for a major in Theology. PM courses can also be taken as theology electives.

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
TH 450	Theologies of Justice

Plus additional credits in Upper Biennium Theology to total 18.

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, she/he is required to take PM 318 and 319 (elementary grades) or PM 318 and PM 340 (secondary level). These courses fulfill the beginning certification requirement 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.

Courses taken through the Pastoral Ministry program, if in the area of Scripture, fulfill the requirements for a minor in Biblical Studies.

THEOLOGY CERTIFICATION FOR TEACHING RELIGION (GR. 7-12)

30 credits

Requirements:

TH 150	Introduction to Theology
TH 304	Christian Worship
TH 321	Old Testament Theology
TH 322	New Testament Theology
TH 330	Contemporary Church
TH 380	Christian Culture and Tradition
TH 400	Christian Spirituality for Today
TH 410	Christian Moral Living
TH 420	The Jesus of History, The Christ of Faith
TH 450	Theologies of Justice

Courses taken through the Pastoral Ministry program, if in the content areas above, fulfill the academic requirements for teaching certification.

Students should inquire regarding the diocesan requirements specifically for the teaching of religion and for the granting of certification.

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 304 Christian Worship 3 cr.

A study of the Church's public worship from its roots in Judaism to the present. The historical development of the seven Christian sacraments and the revised rites reveal their power. This course also aims at relating liturgical principles and celebration of the sacraments to the student's personal life of faith. TH 150 recommended.

TH 310 Christian Marriage 3 cr.

An exploration of the marital relationship in the context of the family system, the faith community and contemporary culture. Students study biblical sources for marriage, sacramentality, fidelity and mutuality. The course also explores the practical aspects of communication, sexuality and domestic violence. TH 150 recommended

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 330 Contemporary Church 3 cr.

A study of the Church in the light of the central themes in the Vatican II documents: discipleship, the role of the laity, the centrality of worship, ecumenism, charisms and ministries. Current ecclesial documents of the Roman church and of other Christian bodies are studied as they are made available. TH 150 recommended.

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.

TH 371 The Pentateuch: Foundations of the
Judaean-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 372 The Historical Books: Roots of Royal
Messianism 3 cr.

A study of the life and times of Israel from Joshua's conquest of the Promised Land to the return from the Babylonian Exile. The study is seen from the viewpoint of the Deuteronomistic historian and the pen of the Chronicler. The results of the foreign influences on the centuries immediately preceding the coming of Christ are treated, including the rise of apocalyptic as well as new theological developments in the deuterocanonical books. TH 150 recommended.

TH 373 The Writings: Judaean 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 380 Christian Culture and Tradition 3 cr.
A survey of the history of Christianity, its cultural heritage and its rich legacy of over two thousand years to the arts: music, art and architecture. The course looks at the conflicts which characterize the history of the Church, as well as the contributions Christians have made in the human achievements of the spirit as they live, suffer and care for the Body of Christ and respond to his call to proclaim his message to the world. 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 384 Apocalyptic/Book of Revelation: What's This World Coming To? 3 cr.
A study of apocalyptic as a literary genre and apocalypticism as a world-view and social phenomenon originating in and traced through the prophets' selected writings, representative apocryphal works and apocalyptic from the New Testament. Special emphasis is given to the Book of Revelation and its relevance to our own times. TH 150 recommended.
- TH 391, 392, 393, 394 Selected Topics 1-3 cr.
- TH 400 Christian Spirituality for Today 3 cr.
A practical study of the sounder insights of contemporary psychology with the guidelines and directives of saints and spiritual writers who have walked the inner journey and left well-marked pathways to follow as Christians of the 21st century. This course considers Gospel spirituality, spiritual passages and the relationship of instruments such as the Myers-Briggs Inventory to the Christian spiritual journey. TH 150 recommended.
- 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.
- TH 415 Women in the Church 3 cr.
A study of the role of women beginning with New Testament documents and the records of women throughout the history of the Church. The place of women in the Church today is examined together with the movements, issues and questions that dominate the ecclesial community. Particular emphasis is placed on outstanding women across the twentieth century and their impact on the future of the Church. TH 150 recommended.
- 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/his personal appropriation of the knowledge about the Jesus of history and the Christ of faith. TH 150 recommended.
- TH 450 Theologies of Justice 3 cr.
A course introducing students to the theology of liberation and its application in issues such as racism, sexism, classism, anti-Semitism and other forms of oppression. Students will examine expressions of liberation from injustice in its Catholic voice as well as in the voices of other religious denominations and faiths. TH 150 recommended.

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 communicate the history and the achievements of women; to incorporate the study of gender issues into traditional academic disciplines; and to prepare women of competence and compassion to build and participate in a 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 300	Psychology of Women
SO 320	Marriage and the Family
SP 391	Women in Medieval/Renaissance Literature
PH 340	Philosophical Perspectives on Woman
TH 320	Christian Marriage
TH 415	Women in the Church

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 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. This course is open to all students, not only to those aiming at a Women's Studies minor.

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