

NOTRE DAME *College*



catalog 2004-05



Accreditation and Affirmative Action statement

Notre Dame College is accredited by The Higher Learning Commission of the North Central Association of Colleges and Schools (30 North LaSalle Street, Suite 2400 Chicago, IL 60602) as a degree-granting institution. Other college accreditation and program approvals include:

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

Notre Dame College upholds the policy that there shall be no discrimination against any student, faculty or staff because of race, color, religion, national origin, age or disability. The fees, programs, and requirements contained in this catalog are effective with the 2004 Fall Semester. They are necessarily subject to change without notice at the discretion of Notre Dame College. It is the student's responsibility to know and follow current requirements and procedures.



table of contents

Accreditation and Affirmative Action Statement	Inside Front Cover
Academic Calendar	2
Inquiries	3
Statements of Mission, Purpose and Catholic Identity	4
The Campus	5
Admission	7
Student Financial Assistance.	11
Student Development	14
Academic Policies and Procedures.	19
Academic Programs.	32
Art	32
Biology	37
Business Administration.	42
Chemistry	50
Communication	55
Economics	58
Education	59
English	65
Environmental Science	70
Health Education/Physical Education.	71
History/Political Science	72
Information Systems	78
Mathematics	80
Modern Languages	83
Music	85
Pastoral Theology and Ministry	86
Philosophy	89
Physics	90
Psychology	91
Sociology	94
Theater	94
Theology.	95
Women's Studies	100
Board of Directors, Administration, Faculty	101
Index.	107



2004-2005 Academic calendar

FALL SEMESTER 2004

June 1	Late Fall Registration for Returning Students
August 27	Last Day of Fall 2003 Registration
August 30	First Day of Instruction
August 30-	
September 3	Schedule Adjustment Period
September 3	Last Day to Add a Class
September 6	Labor Day - No Classes
October 14-15	Fall Break - No Classes
November 5	Last Day to Withdraw from a Course with a "W"
November 17-18	Senior Priority Registration
November 22-23	Junior Priority Registration
November 29-30	Sophomore Priority Registration
December 1-2	Freshman Priority Registration
November 24-28	Thanksgiving Break - No Classes
December 10	Last Day of Instruction
December 14-17	Final Examination Period
December 20	Late Spring Registration for Returning Students
January 7, 2005	Grade Reports Issued

SPRING SEMESTER 2005

December 20, 2004	Late Spring Registration for Returning Students
January 7	Last Day of Spring 2004 Registration
January 10	First Day of Instruction
January 10-14	Schedule Adjustment Period
January 14	Last Day to Add a Course
January 17	Martin Luther King Day - No Classes
February 28-	
March 4	Spring Break - No Classes
March 24-28	Easter Break - No Classes
April 1	Last Day to Withdraw from a Course with a "W"
April 13-14	Senior and Junior Priority Registration
April 18-19	Sophomore Priority Registration
April 20-21	Freshman Priority Registration
April 27	All College Honors Convocation
April 29	Last Day of Instruction
May 2-4	Final Examination Period
May 8	Baccalaureate and Commencement
May 19	Grade Reports Issued
June 1	Late Fall Registration for Returning Students

WEEKEND COLLEGE (WECO) CALENDAR 2004-2005

Saturday, August 14	WECO Faculty Meeting
Saturday, August 21	WECO New Student Orientation

TERM I

August 27-28
September 10-11
September 24-25
October 8-9
October 22-23
November 5-6

TERM II

November 19-20
December 3-4
December 17-18
January 7-8, 2005
January 21-22
February 4-5

TERM III

February 18-19
March 4-5
March 18-19
April 1-2
April 15-16
April 29-30

TERM IV

May 13-14
May 20-21
May 27-28
June 10-11
June 17-18
June 24-25



See our Home Page at www.notredamecollege.edu

Send e-mail to: admissions@ndc.edu

Our mailing address is:

Notre Dame College
4545 College Road
Cleveland, Ohio 44121-4293

Phone: 216-381-1680

Toll Free: 877-NDC-OHIO (877-632-6446) ext. 5355

Fax: 216-381-3802

Admissions information, campus tours, transfer students and continuing education:

Office of Admissions, First Floor, Main Administration Building

Registration, class schedules and acceptance of credits:

Office of Student Records, First Floor, Main Administration Building

Financial aid, scholarship and loan inquiries:

Office of Financial Aid, First Floor, Main Administration Building

Housing inquiries:

Office of Student Life, First Floor, Main Administration Building

Athletics inquiries:

Office of Intercollegiate Athletics, Keller Center

Academic advising:

Advising Center, First Floor, Main Administration Building

Career development, cooperative education, employment assistance:

Career Services Center, Ground Floor, Main Administration Building

Mission statement

Notre Dame College, a Catholic institution in the tradition of the Sisters of Notre Dame, educates a diverse population in the liberal arts for personal, professional and global responsibility.

statements of purpose

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

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

catholic identity statement

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

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

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

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

As a Catholic college, we therefore seek to develop

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



The campus

Notre Dame College is located in South Euclid, Ohio, a suburb less than 30 minutes east of downtown Cleveland, an historic city that is changing and rejuvenating. The heritage and culture of more than 60 ethnic groups have come together in Cleveland to forge a center of commerce and industry. Greater Cleveland is a center for many leading national and multi-national corporations, ranking #11 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 the student's employment opportunities after graduation.

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

Cleveland also hosts a variety of professional sports teams for the enthusiastic spectator. Everything from Browns football and Indians baseball to Cavs basketball and Crunch indoor soccer is played in Cleveland's downtown facilities.

THE ADMINISTRATION BUILDING

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

THE DWYER LEARNING CENTER

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

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

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

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

CLARA FRITZSCHE LIBRARY

The Clara Fritzsche Library, dedicated in 1971, houses a collection of more than 93,000 volumes. Located next to the Keller Center and adjacent to the Administration Building, the two-story structure contains a general collection supporting all areas of the curriculum with a special emphasis on theology, education, literature, art and foreign language materials. In addition, the Library maintains a comprehensive juvenile collection, 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 History/Prelaw major.

In an effort to provide timely information for all disciplines, the Clara Fritzsche Library is a member of OhioLINK, a network of 84 academic libraries that provides access to over 25 million books and audio-visual materials and 120 databases containing thousands of journal titles and full text articles. In addition to these resources, the Library receives more than 250 periodicals in print form, which are housed on the second floor. A microfiche reader/printer is available for viewing and duplicating periodicals kept on microfiche. In addition to periodical holdings, business students have access to an extensive collection of annual reports. Computers on both floors allow access to our electronic catalog, the Internet and numerous online services such as ERIC, MEDLINE, PsychINFO EBSCO and Education Index.

The Clara Fritzsche Library maintains a media center, also on the second floor. 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. A new state-of-the-art Computer Room is a popular place for students to congregate. It contains six additional computer workstations that may be used for research, searching the Internet, e-mail and word processing. The Seminar Room may be scheduled for meetings, quiet study, or video viewing. The Library also features a newly renovated art gallery that may be booked for showings by local artists.

The Clara Fritzsche Library also houses two special collections. The Tolerance Resource Center, located on the second floor of the library, houses a collection of

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

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

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

JOSEPH H. KELLER CENTER

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

While the Keller Center supports the educational mission of the College to educate and form the complete person, it is also used for intercollegiate athletic competition.



Admission

UNDERGRADUATE ADMISSION TO NOTRE DAME COLLEGE

To fulfill its mission, Notre Dame College encourages students of diverse religious, racial, educational and socioeconomic backgrounds to apply. Undergraduate admission decisions are based on a broad range of criteria. A prospective student may apply for admission up to a year prior to the semester, summer session or Weekend College term for which admission is desired.

CAMPUS VISIT

Notre Dame College welcomes and strongly encourages every prospective student to take the opportunity to visit its campus. A campus visit can be arranged by contacting the Office of Admissions at 216-381-1680 ext. 5355 or toll-free 877-NDC-OHIO (877-632-6446) ext. 5355.

ADMISSION REQUIREMENTS

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

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

TRADITIONAL STUDENTS

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

College Preparatory English	4 units
Mathematics	3 units to include Algebra I, Geometry and Algebra II
Science	3 units with laboratory experience
Social Studies	3 units
Foreign Language	2 units of the same language
Fine Arts	1 unit

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

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

* You may also apply online free of charge.

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

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

FULL ADMISSION

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

- 2.5 cumulative grade point average on a 4.0 scale, or
- Minimum ACT score of 19/ SAT score of 900, or
- Evidence of the potential for academic success as profiled on the academic transcripts and in a personal interview.

PROVISIONAL ADMISSION

A student will be granted Provisional Admission when the cumulative grade point average or standardized entrance examination performance falls below those standards necessary for Full Admission. A student admitted on a provisional basis will be limited to registering for no more than twelve (12) credit hours during the first term of enrollment and will be required to use the services of the Dwyer Learning Center regularly. The student will meet with the Director of the Learning Center to develop an action plan in order to afford the greatest possibility for academic success. A student admitted provisionally is expected to achieve a 2.0 grade point average upon completion of the first term of enrollment.

TRADITIONAL TRANSFER STUDENTS

Traditional transfer students are those who have graduated from high school within four years of their first term of enrollment and who have attended a regionally accredited institution of higher learning following high school graduation. Notre Dame College requires the following credential from each transfer student seeking admission:

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

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

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

FULL ADMISSION

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

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

PROVISIONAL ADMISSION

A student will be granted Provisional Admission when his/her cumulative grade point average falls below those standards necessary for Full Admission. A student admitted on a provisional basis may be limited to registering for no more than twelve (12) credit hours during his/her first term of enrollment. A student admitted provisionally will be expected to achieve a 2.0 grade point average upon completion of his/her first term of enrollment.

ADULT STUDENTS

Adult students are those students 23 years of age and older who have graduated from high school five or more years prior to their first term of enrollment, or who have earned a General Education Diploma (GED), and who wish to complete course work primarily during the semester and/or summer sessions. Notre Dame College requires the following credentials from each adult student seeking admission.

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

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

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

FULL ADMISSION

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

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

PROVISIONAL ADMISSION

A student will be granted Provisional Admission when his/her cumulative grade point average falls below those standards necessary for Full Admission. A student admitted on a provisional basis may be limited to registering for no more than twelve (12) credit hours during the first term of enrollment. A student admitted provisionally will be expected to achieve a 2.0 grade point average upon completion of the first term of enrollment.

WEEKEND COLLEGE (WECO) STUDENTS

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

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

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

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

FULL ADMISSION

- Ordinarily, a student will be granted Full Admission when the following conditions have been met.
- 2.5 cumulative grade point average on a 4.0 scale (most recent academic work)
- Evidence of scholarship and the potential for academic success as profiled on the academic transcript and in the personal interview

PROVISIONAL ADMISSION

A student will be granted Provisional Admission when his/her cumulative grade point average falls below those standards necessary for Full Admission. A student admitted on a provisional basis will be limited to registering for six (6) credit hours during the first term of enrollment. A student admitted provisionally will be expected to achieve a 2.0 grade point average upon completion of the first term of enrollment.

INTERNATIONAL STUDENTS

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

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

For Transfer Students ONLY:

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

For International Athletes ONLY:

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

- Graduate in top half of class (confirmation from head master/guidance counselor)
- Receive a minimum of 2.00 GPA
- Obtain official results of the ACT/SAT test

According to Immigration and Naturalization Service regulations, a completed Declaration and Certification of Financial Support is necessary to prove that the student has financial resources available for the cost of tuition, fees, room and board, supplies, personal expenses and transportation while enrolled at Notre Dame College for the first academic year and to give a reasonable guarantee that financial resources will be available for approximately the same costs for the remaining academic years.

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

FULL ADMISSION

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

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

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

READMISSION

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

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



student Financial Assistance

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

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

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

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

SOURCES OF FINANCIAL ASSISTANCE

Federal Financial Assistance Programs

Federal Pell Grant
Federal Subsidized Stafford Student Loan
Federal Unsubsidized Stafford Student Loan
Federal Parent Loan for Undergraduate Students (PLUS)
Federal Supplemental Educational Opportunity Grant (FSEOG)
Federal Perkins Loan
Federal Work Study (FWS)

State Financial Assistance Programs

Ohio Instructional Grant (OIG)
Ohio Choice Grant
Ohio Academic Scholarship
Ohio War Orphans Scholarship

Private Financial Assistance Programs

Valedictorian/Salutatorian Scholarship
Presidential Honors Scholarship
Sisters of Notre Dame Award
Alumni Association Scholarship
Notre Dame College Grant
Family Plan Scholarship

Endowed Awards

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 Alumni 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 his/her company's benefit program.

CONFIRMATION AND ROOM DEPOSITS

Upon acceptance by Notre Dame College, incoming full-time students are required to make a confirmation deposit of \$125. The deposit is credited to the student's first semester charges and is not refundable after May 1.

If housing is desired, an additional \$200 room/key/damage deposit is required. The deposit is transferable from year to year.

PAYMENT

It is the policy of Notre Dame College that tuition and fees for a given term are to be paid OR acceptable arrangements made by August 1 for Fall Semester and January 3 for Spring Semester. Students who register after that deadline are expected to have acceptable payment arrangements in place at the time of registration. Registrations received without payment or acceptable arrangements will be voided. Pending financial aid is not an acceptable payment arrangement. Payment for WECO terms is due prior to the first day of classes.

REFUNDS

Tuition:

If a student withdraws from Notre Dame College during the semester, no refunds except those indicated here will be made, and any unpaid balance covering the period of enrollment will become due. For students who withdraw within the first four weeks of a given semester, refunds will be made after written notification of withdrawal is filed with, and approved by, the Office of Student Records. The amount of refund will be figured from the date appearing on the official Change of Schedule form:

- before the end of the first week of classes, 100%;
- before the end of two weeks, 80%;
- before the end of three weeks, 60%;
- before the end of four weeks, 40%;
- and after the fourth week, NO REFUND.
- For courses that meet once a week, one class equals one week.

Refunds on non-credit courses will be made on the percentage basis listed above. Refunds will be made approximately one month after the date of withdrawal. Financial aid is adjusted on the same basis as tuition.

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

A student who withdraws from a course must give written notification to the Office of Student Records.

Non-attendance and/or non-payment DO NOT constitute official withdrawal from a course. If a student fails to withdraw officially, he/she will be responsible for all tuition and fee charges.

Room and Board:

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

Federal Refund Policy:

A federal refund policy applies to students meeting all of the following criteria:

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

STANDARDS OF SATISFACTORY ACADEMIC PROGRESS* FOR FINANCIAL AID APPLICANTS

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

A. Credit Hour Requirement

First year undergraduate students (0-31 hours attempted) must complete successfully a minimum of 60% of the number of credit hours attempted in each award year (or part thereof). An award year includes any terms beginning with Summer/WECO 4 through the Spring semester/WECO 3. All other undergraduate students must complete successfully a minimum of 75% of the

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

total number of attempted credits each academic year (or part thereof) at Notre Dame College. Students attending only one semester or WECO term will be evaluated on that term's work. Students who leave the college for an awarding year (or years) will be evaluated on their performance during the most recent year of attendance at Notre Dame College.

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

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

B. Grade Point Average (GPA Requirement)

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

C. Maximum Time Frame for Eligibility
Undergraduate Students

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

Graduate Students

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

Transfer Student

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

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

Monitoring

Satisfactory academic progress will be measured at the end of each academic year. However, in some instances, an evaluation will be conducted after each semester
EX: Students with 62 attempted hours will need a 2.00 GPA at the end of each term of enrollment.

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

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

APPEALS

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

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

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

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



student development

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

CAMPUS ACTIVITIES

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

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

CAREER DEVELOPMENT

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

Career Development sponsors a wide variety of programs and workshops to help students in all areas of career

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

COOPERATIVE EDUCATION

Cooperative Education and internships assist students in determining career direction, gaining on-the-job experience, observing professionals, providing lessons in human relations, and earning money. Applying classroom learning to actual work experience provides students an opportunity to test their knowledge in specific areas while exploring career opportunities.

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

COUNSELING

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

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

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

HEALTH SERVICES

Resident students needing health services may go to an off-campus facility located two miles from campus. Emergency Room services are provided for all students by an area hospital.

Students who are absent from classes because of illness or accident are expected to contact their professors to make up work missed.

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

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

RESIDENCE LIFE

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

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

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

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

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

Residents are required to contract with the College food service for meals, which are served in Connelly Dining Hall.

LEARNING CENTER

The Learning Center offers a program to assist students in achieving their academic ambitions and goals. The program provides extra academic support in the form of tutorial assistance for course-related problems. The Director and student tutors perform the tutorial services and communicate regularly with the students' instructors.

The Learning Center assists with the coordination of Notre Dame College's placement testing in English, math and computer skills. The tests are given at scheduled dates during the summer and at the new student orientation each semester. Failure to take these tests at the earliest opportunity can delay a student's enrollment for specific classes.

STUDENT DISABILITY SERVICES

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

ORIENTATION

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

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

FYI

Appropriately called First Year Institute, orientation to Notre Dame College continues during the first semester with a unique, small-group experience. The first year of college is a critical period for student learning and persistence. It is a period of transition and adjustment, both academically and socially, during which students acquire important skills that furnish the foundation for subsequent learning. Small groups of students meet regularly with faculty and staff mentors and work toward the common goals of achieving academic success and developing a sense of community.

WHO'S WHO

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

CLUBS AND ORGANIZATIONS

Accounting Association
 Art Club
 BACCHUS
 Biology Club
 Black Scholars
 Bowling Club
 Campus Activities Board
 Campus Ministry
 Chemistry Club
 Choral
 Dance Team
 Ludology
 Masquers (dramatics)
 Multicultural Club
 Notre Dame Education Council
 Notre Dame Environmental Club
 Notre Dame News
 Open Mic Night Club
 Pall Mall (English)
 Phi Alpha Theta (history honorary)
 Pivot (literary magazine/yearbook)
 Psychology Council
 Resident Association Board
 Senior Class
 Sophomore Club
 Spirit Club
 Stars (Student Achievement Research and Scholarship)
 Undergraduate Student Government

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

UNDERGRADUATE STUDENT GOVERNMENT

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

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

INTERNATIONAL EDUCATIONAL TRAVEL

Opportunities are provided for students to travel abroad and earn college credit. Educational travel experiences guided by full-time college faculty are open to traditional, adult and WECO men and women. Students and faculty have traveled to Italy, Greece, France, Germany, the Czech Republic, Slovakia, Austria, Spain, and the British Isles.

INTERNATIONAL STUDENT SERVICES

Part of Notre Dame College's mission is to educate a diverse population of students for personal, professional and global responsibility. One of the best ways to achieve this mission is by welcoming students from around the world into our tight-knit community. The Student Development Team helps to foster cross-cultural understanding and diversity awareness on campus, while the Director of International Student Services serves as the point person for recruitment, retention, acculturation and immigration issues regarding international students. This person also helps facilitate the International Student Orientation, designed for academic and personal success at Notre Dame College. International students succeed at a small, liberal arts school like Notre Dame College because of the personal attention, nurturing environment, and low student-faculty ratio. The Director also serves as advisor to the Multicultural Club, created as a forum for support, free discussion, and information for students, especially those who are international or interested in international cultures.

Students at Notre Dame College will be better prepared to understand the world we live in through first-hand experience with our international student population. The next few decades will not only need degreed-individuals but those who have "worldly" knowledge as

well – either through International Educational Travel, able to function in a second/third language, living with an international roommate, etc. At Notre Dame College, we're changing the world, one student at a time. Open your mind to the possibilities!

TRADITIONS

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

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

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

Campus Ministry – Campus ministry encourages the Notre Dame College community members to continue to develop their spiritual life and expand their awareness of the needs of the global community. Service projects are organized throughout the year.

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

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

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

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

Parents/Family Weekend – This fall semester event was created to allow families of Notre Dame College students to come on campus to experience college life.

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

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

INTERCOLLEGIATE ATHLETICS

As a member of the National Association of Intercollegiate Athletics (NAIA) and the American Midwest Conference (AMC), the largest NAIA league in the nation, Notre Dame College fields 15 teams in the sports of fastpitch, lacrosse and volleyball for women, baseball and tennis for men and basketball, cross country, golf, soccer and track and field for both women and men. Competitive events, as well as training opportunities, are available to student athletes within the Joseph H. Keller Center and its surrounding fields, in addition to several local facilities.

The intercollegiate athletic program at Notre Dame College grows naturally from the mission of the College. The program seeks to support the scholar athlete who achieves on the court or field, as well as in the classroom. A focus of each student athlete's program is solid academic preparation and academic achievement.

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

INTRAMURALS AND RECREATION

The intramural and recreation program consists of individual and team activities for persons of all skill levels. Types and structures of events are determined according to interest and facility availability. Such activities available on campus for all students to participate in include billiards, basketball, flag football, kickball, softball and volleyball.

Academic Policies and Procedures

CATALOG

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

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

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

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

LIBERAL ARTS EDUCATION

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

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

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

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

GENERAL EDUCATION REQUIREMENTS (GERs)

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

Area	Credits	Courses Satisfying Requirement	Notre Dame College Course Options	Prerequisite or Comment
Written Composition	3	An English composition and writing course	EN 110 or EN 100/101 (EN 207)	Placement at initial enrollment; demonstration of competency (see page 22)
Oral Communication	3	A Public Speaking course	CA 100	
Information Systems	3	An introductory Computer course	IS 220	IS 120 or Placement
Fine Arts	3	<ul style="list-style-type: none"> • Art or Music History course • Art or Music Appreciation course • Selected Art Studio courses 	AR 101, AR 209, AR 221, AR 223, AR 280, AR 290, AR 311, AR 312, AR 313, AR 314, AR 316, AR 377, MU 160, MU 211, MU 213, MU 320	
Literature	3	A literature course (not Children's Literature)	EN 255, EN 256, EN 261, EN 262, EN 281 or any literature course numbered EN 331 or above	
Scripture-inclusive Theology	2 or 3	A Theology course that includes the study of Scripture	TH 150, TH 321, TH 322, TH 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	
	3	Theologies of Justice	TH 450	TH 450 must be taken at Notre Dame.
Philosophy	3	A Philosophy course	Any PH course	PH 180 is the recommended introductory course. PH 180 is not a prerequisite for other PH courses.
	3	Current Ethical Problems	PH 480	PH 480 must be taken at Notre Dame.

Area	Credits	Courses Satisfying Requirement	Notre Dame College Course Options	Prerequisite or Comment
Cross Cultural - International Studies	3	<ul style="list-style-type: none"> • A Modern Language course • A cross cultural or international Anthropology, Business, Literature, Nutrition, Social Science or Theology course • A course associated with travel abroad 	See the annual schedule of course offerings for currently available cross-cultural courses.	
Science	4	A Biology, Chemistry, or Physics course with lab	BI 105/106, BI 110/111, BI 112/113, BI 200/201, BI 230/231, CH 100/101, CH 111/113, CH 220/221, CH 225/226, PS 150/151, PS 180/181, PS 190/191, PS 200/201	Recommended courses for non-science majors are BI 105/106, BI 200/201, BI 230/231, CH 220/221, CH 225/226
Mathematics	3	A Math course appropriate to the major and beyond the developmental level	MA 120, MA 130, MA 131, MA 145, MA 175, MA 220, MA 221	Placement
Social Sciences	3	A course in Economics, Geography, History, Political Science, Psychology or Sociology	Any EC, GO, HI, PO, PY or SO course	
Health and Wellness	3	A Health and Wellness course	HP 110 (traditional students)	
			HP 112 (adult students)	

WRITING COMPETENCY REQUIREMENT

Developing skill in effective written communication is a core goal of Notre Dame College's liberal arts degree programs. Therefore, students must demonstrate competency in academic writing. At initial enrollment and at the end of their first semester, all students new to Notre Dame (both first-year and transfer students) take a short writing examination. Students whose writing does not demonstrate college-level competency will enroll in EN 207, a one-semester course designed to strengthen writing skills.

GENERAL DEGREE REQUIREMENTS

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

- have earned 128 semester hours of credit. (A semester hour is defined as one weekly, fifty-minute class period for a semester of fifteen weeks. Two or three hours of laboratory work are equivalent to one lecture period. The Weekend College Terms are semester equivalents, and the credit unit is a semester credit.)
- have successfully completed courses fulfilling the General Education Requirements and those in the chosen major field of study.
- have 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 2.75 average.
- have attended Notre Dame College for at least one year, preferably the senior year, and shall have completed a minimum of thirty-two (32) semester credits of course work at Notre Dame College.
- have at least 64 credit hours from a four-year institution.
- have at least 45 credits of upper-biennium (300-400) courses.

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

- have earned 64 semester hours of credit.
- have successfully completed the General Education Requirements and those in the chosen major field of study.
- have attained a grade point average of at least 2.00 by the end of the first year of study.
- have maintained a minimum 2.00 average in the major field.
- have attended Notre Dame College for at least one semester and have completed a minimum of sixteen (16) semester credits of course work at Notre Dame College.

ASSOCIATE DEGREE PROGRAMS

The following General Education Requirements form the foundation for all associate degree programs.

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

MAJOR FIELDS OF STUDY

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

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

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

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

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

MINOR FIELDS OF STUDY

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

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

DOUBLE MAJOR

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

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

PROGRAMS OF STUDY

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

DEGREE PROGRAMS

A Bachelor of Arts (BA) degree is available with these majors:

Accounting (Business Administration)
Biology
Chemistry
Communication
Education
English

Graphic Design (Art)
History/Environmental Science
Human Resources Development
Information Systems (Business Administration)
Management (Business Administration)
Marketing (Business Administration)
Mathematics
Political Science
Psychology
Studio Art
Theology

Interdisciplinary Majors (Bachelor of Arts degree)

Graphic Communication (Art)
Human Resources Development (Business Administration)
Public Administration (History/Political Science)
Public Relations (Communication)
Sports/Recreation Management (Business Administration)

Individually Designed Majors (Bachelor of Arts degree)

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.

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

Biology
Chemistry
Mathematics

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

Business Management
Pastoral Ministry

Minors are available in these areas:

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

TEACHER LICENSURE PROGRAMS

Early Childhood Education (Pre-K - 3)
 Middle Childhood Education (4 - 9)

Areas of concentration for Middle Childhood Education (2 areas needed):

Mathematics
 Reading/Language Arts
 Science
 Social Studies

Middle Childhood General License, Grades 4, 5, 6

Multi-age Licenses (P - 12) are available in these fields:

Mild/Moderate Intervention Specialist
 Spanish
 Visual Arts
 Adolescent/Young Adult Education (7 - 12)
 Integrated Language Arts
 Integrated Mathematics
 Life Science: Biology-Based
 Life Science: Biology and Chemistry-Based
 Integrated Social Studies

CERTIFICATE PROGRAMS

Accounting (Business Administration)
 Advanced Certificate in Pastoral Ministry
 Basic Certificate in Pastoral Ministry
 Information Systems (Business Administration)
 Management (Business Administration)
 Marketing (Business Administration)
 Theology Certification for Teaching Religion for Grades 7-12

GRADUATE PROGRAMS

Graduate programs are offered in education. For further information, please contact the Education Office at 216-373-5217 for a copy of the graduate bulletin, or logon to www.notredamecollege.edu/academics/graduatePrograms.html.

ALTERNATIVE METHODS OF LEARNING ASSESSMENT

Notre Dame College acknowledges the fact that learning acquired outside the traditional classroom setting can be equivalent to college-level learning. When this knowledge has been properly documented and assessed, academic course credit may be granted by the College. The number of credits earned through alternate methods of learning assessment may not exceed 32 semester hours. Credits earned through this process must be requested before the beginning of the academic year in which the degree is to be granted. Credits granted in this manner will be listed as part of the student's official academic record only after all appropriate fees have been paid. All credits will be subject to the approval of the division chairperson and the Vice President for Academic Affairs.

Experiential Learning Credits

Those who have acquired academic knowledge or skills through direct experience, in-service training or non-credit classes may have it validated for college credit. Students will do this through a process called portfolio assessment. Portfolio assessment may not be accepted for credit in certain areas or for certain courses. A student should contact the appropriate division chairperson for more information.

Proficiency Examinations

Examinations to demonstrate subject matter competency may be taken for credit or non-credit validation for a small fee. Such examinations may not be used to raise an existing grade. A level "C" is the minimum acceptable level for credits earned through examination. A student should contact the appropriate division chairperson for more information.

College Level Examination Program (CLEP)

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

Independent Study and Laboratory Research

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

A student with senior standing and a minimum grade point average of 3.00 both in his/her general studies and in the major field of study may qualify for these options.

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

The grade and credits earned for the project are included in the academic major and general degree requirements for graduation.

Cross-Registration

Full-time students can broaden the scope of their educational opportunities through a system of cross-registration. Each term or semester, students in good academic standing may enroll in one undergraduate course, elective or required, at any of the participating colleges and universities in Greater Cleveland. There is no additional tuition charge, but cross registrants are responsible for their own transportation and any laboratory or special course fees required for the host institution's course. First-year students are not encouraged to cross-register. For further information, students should contact the Office of Student Records.

CENTER FOR PROFESSIONAL DEVELOPMENT**Professional Development**

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

Certificate Programs:

Certificate programs are offered in Catholic Leadership, Business Leadership, and Athletic Coaching. Additional certificate programs are being developed. Most offerings can be taken for either continuing education, undergraduate credit or graduate credit.

Continuing Education:

- Notre Dame College is an approved provider of Social Worker Continuing Professional Education (CPE) by the Ohio State Social Worker and Counseling Board.
- Notre Dame College is an approved provider for Counselor Continuing Professional Education (CPE) by the State of Ohio Counselor and Social Worker Board.
- Notre Dame College is an approved provider of continuing education credits (CEC) for adult services, case management, and early intervention by the Ohio Department of Mental Retardation/Developmental Disabilities (ODMRDD).

- Educators needing Continuing Education Units (CEU) must seek approval from their Local Professional Development Committee (LPDC).
- Notre Dame College is an approved provider of Ohio Department of Education, Pupil Activity First Aid Program.

Senior Citizens:

Notre Dame College invites men and women sixty years of age and older to take a course for enrichment at the undergraduate level for a reduced rate. Enrollment is limited to offerings that are not fully enrolled and all other conditions are met. Seniors may take Center for Professional Development offerings at a continuing education level on a space-available basis.

For more information contact the Center for Professional Development at 216-373-5219 or visit our Website at www.notredamecollege.edu, and click on professional development.

OTHER POLICIES AND PROCEDURES

Classification of Students

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

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

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

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

AN AUDITOR is a student permitted to attend classes on a non-credit basis. Requirements to be met by auditors are set by individual instructors.

PLAGIARISM

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

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

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

STUDENTS WITH DISABILITIES

Notre Dame College makes reasonable accommodations for students with disabilities. A qualified student with a disability may request support services from the Learning Center on a yearly basis. In order to receive services at Notre Dame College, students with disabilities must provide documentation such as a statement from a medical doctor or licensed psychologist which meets state and federal standards for indicating the presence of a disability.

TRANSFER STUDENTS/ TRANSFER CREDITS

Students wishing to transfer from a regionally accredited college or university will be admitted to advanced standing upon presentation of satisfactory evidence of scholarship and character.

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

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

STANDARD FOR COMPLETION OF PROGRAMS OF STUDY

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

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

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

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

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

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

FINANCIAL AID RECIPIENTS

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

GRADING SYSTEM

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

NUMERICAL EQUIVALENT	QUALITY POINTS
A = 93-100%	4.0 per credit hour
A- = 90-92%	3.7 per credit hour
B+ = 87-89%	3.3 per credit hour
B = 83-86%	3.0 per credit hour
B- = 80-82%	2.7 per credit hour
C+ = 82-84%	2.3 per credit hour
C = 73-76%	2.0 per credit hour
C- = 70-72%	1.7 per credit hour
D = 65-69%	1.0 per credit hour
F = 0-64%	0.0 per credit hour

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

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

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

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

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

Departments may declare which of their course offerings may be open for the Pass/Fail option, as well as the number of students who may be admitted on a Pass/Fail basis.

A student who wishes to contest a course grade must initiate the appeal process in writing no later than two weeks after the date the grade was issued.

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

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

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

ATTENDANCE AT CLASSES

Attendance regulations reflect the effort of Notre Dame College to admit students who can be responsible for their educational progress. It is expected that the student attend each meeting of a course. Attendance policies, however, are set by the instructor, and the student must adapt to the demands of each course. In case of unsatisfactory work because of excessive absence from class, the instructor may give ample warning to the student and then recommend that the student drop the course up to the deadline established for withdrawal.

ACADEMIC PROBATION

A report of scholarship is given to the student at the close of each semester. A student whose grade point average is below 2.00 is placed on academic probation. Unless the student gives evidence of scholastic improvement during the semester after being placed on probation, the student may be declared academically ineligible to return to Notre Dame College.

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

WITHDRAWAL FROM COURSES

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

TRANSCRIPTS OF RECORD

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

HONORS AND AWARDS

Graduation With Honors

To be eligible for graduation with honors, “cum laude,” a student must earn a grade point average of 3.50; for graduation “magna cum laude,” he/she must earn an average of 3.75; for “summa cum laude,” he/she must earn an average of 3.90. Furthermore, the student must have earned at least 128 semester credits, including 64 from Notre Dame College with no “D” or “F” grades.

Dean’s List (Day/Evening Students)

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

President’s List (Day/Evening Students)

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

Dean’s List (Weekend College Students)

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

President’s List (Weekend College Students)

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

Dean’s List (Combination Students)

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

President’s List (Combination Students)

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

St. Catherine Of Alexandria Medal

The Medal of St. Catherine of Alexandria is awarded annually by Kappa Gamma Pi to a junior at Notre Dame College on the basis of 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 ten percent of the graduating class to its membership. Graduating seniors are selected by the faculty. Criteria for membership include qualification for graduation with academic honors, demonstrated leadership and service during the undergraduate years, and strong indications that the students will assume leadership in the future in their Church, or larger civic or professional community.

Who’s Who

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

STUDENT DEVELOPMENT

LEADERSHIP AWARDS

These awards are presented to students who have been leaders in a formal way as well as to those who contribute in a supportive, behind-the-scenes manner. Students selected for Who's Who are ineligible.

ACADEMIC AWARDS

A number of disciplines have special awards for high achievement:

Biology

- Award for the senior with the highest grade point average in biology as well as the highest cumulative average.
- In addition, the Sr. Patricia Hlivak Memorial Award for outstanding service to the biology department.

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

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

Fine Arts

- Certificate for excellence in Fine Arts.

Mathematics

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

Modern Languages

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

Social Science

- Plaque for Distinguished Work in History/Political Science.
- Membership in Phi Alpha Theta International Honor Society in History.
- 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, alumni, 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, SND, D.B.A.	1997
Rachel Morris, M.A.	1998
Sandra Grassman, M.B.A.	1999
Beth Anne Tercek, SND, Ph.D.	2000
Inge Schmidt, Ph.D.	2001
Stephen M. Feltch, Ph.D.	2002
Barbara Sposet, Ph.D.	2003
Sharon Balchak, Ph.D.	2004

OUTSTANDING TEACHING AWARD

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

Recent recipients of the award have been:

Nancy Curran McMahon, M.A.	1994
Sr. Mary St. Martha Conrad, SND, M.S.	1995
Marilyn Farinacci, M.F.A.	1996
Kenneth Palko, M.A.	1997
Francis Warnement, M.A.	1998
Lisa Schonberg, M.F.A.	1999
Martin Poluse, Ph.D.	2000
Marilyn Farinacci, M.F.A.	2001
Bernard S. Jesiolowski, Ph.D.	2002
Kenneth Palko, M.A.	2003
Amy Kesegich, Ph.D.	2004

Academic Programs

ART

Studio and Professional Art Programs Goals

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

STUDIO ART MAJOR

48 Credits

Program Goals:

1. Studio art majors will gain studio skills in a variety of techniques and media that will qualify the graduate for graduate studies or a career in the visual arts. Mastery of skills will be demonstrated in the form of a senior art exhibition.
2. The studio art majors will gain expertise and studio competency presented in the form of a senior art portfolio. This portfolio will prepare students for art competition or job interviews and serve as a record of studio progress.

Requirements: 42 credits

AR 101	Drawing
AR 114	Introduction to Graphic Design
AR 209	Photography I
AR 221	Basic Design
AR 222	Color and Design
AR 311	Art History I: Ancient to Medieval
AR 312	Art History II: Renaissance to Modern
AR 325	Printmaking I
AR 341	Painting I
AR 371	Three-Dimensional Design
AR 377	Ceramics I
AR 490	Professional Practices
AR 491	Senior Studio I
AR 492	Senior Studio II

Concentration: 3 Credits

All studio majors are required to select an area of concentration after completing foundation courses and prior to AR 490 and AR 491. Students may select from the list below for a concentration.

AR 102	Drawing II
AR 210	Photography II
AR 326	Printmaking II
AR 342	Painting II
AR 378	Ceramics II

Art Electives: 3 Credits

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

GRAPHIC COMMUNICATION MAJOR

48 Credits

Program Goals:

1. Students will have exposure to and experience using the latest computer software and hardware. This will prepare graphic communication majors for entry-level positions in the field of graphic design, positions in which both communication, writing and design skills are necessary or for graduate school.
2. Students will accumulate a body of graphic design work and professional writing in the form of a graphic design portfolio that will emphasize both design and communication competency.

Art Requirements: 33 Credits

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

Art Electives Required: 3 credits in elective AR courses. Recommended for graphic communication majors:

AR/IS 365 Web Site Design and Development

Co-Op Requirements: 3 Credits

AR 295,
395, or 495 Cooperative Education

Communication Requirement: 3 Credits

CA 250 Mass Communications

Communication Requirements: 3 Credits

Choose 6 credits from:

CA 220 Newswriting
CA 305 Film Studies
CA 313 Event/Play Production Apprenticeship
CA 323 Writing for the Non-Print Media
CA 324 Writing for Publication
CA 374 Presentation Techniques
EN 318 Creative Writing

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

GRAPHIC DESIGN MAJOR

51 Credits

Program Goals:

1. Students will have exposure to and experience using the latest computer software and hardware. Additionally the student will develop an understanding of graphic design theory and feel competent in developing an individual style.
2. Students will have access to and experience in multimedia and web design and be competent in using these tools as a graphic designer. The student will be prepared for an entry-level position using a multitude of design tools and techniques.

Requirements: 45 Credits

AR 101 Drawing
AR 114 Introduction to Graphic Design
AR 209 Photography I
AR 221 Basic Design
AR 222 Color and Design
AR 223 Graphic Design I
AR 224 Graphic Design II

AR/IS 243 Multimedia Design
AR 300 Graphic Design III
AR 400 Graphic Design IV
AR 314 Impressionism to Now
AR 325 Printmaking I
AR/IS 365 Web Design
AR 371 Three Dimensional Design
AR/IS 443 Advanced Multimedia Design

Business Requirements: 3 Credits

BU 301 Consumer Behavior
BU 390 Advertising

Co-Op Requirements: 3 Credits

AR 295, 395 or 495

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

MULTI-AGE LICENSE IN VISUAL ARTS

(Gr. P-12)

45 Credits

Requirements: 45 Credits

AR 101 Drawing I
AR 102 Drawing II
AR 114 Introduction Graphic Design
AR 209 Photography
AR 221 Basic Design
AR 222 Color and Design
AR 311 Art History I: Ancient to Medieval
AR 312 Art History II: Renaissance to Modern
AR 325 Printmaking I
AR 341 Painting I
AR 360 Art Methods
AR 371 Three-Dimensional Design
AR 377 Ceramics I
AR 490 Professional Practices
AR 491 Senior Studio*

Recommended Course: 3 Credits

AR 314 Impressionism to Now

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

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

See **EDUCATION** for Professional Education Requirements.

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

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

FINE ARTS MINOR

18 Credits

Art History Requirements—6 Credits from:

AR 311	Art History I: Ancient to Medieval
AR 312	Art History II: Renaissance to Modern
AR 313	Women Artists: Historical Survey
AR 314	Impressionism to Today
AR 316	American Art

Studio Art Requirements—6 Credits from:

AR 101	Drawing I
AR 114	Introduction to Graphic Design
AR 209	Photography I
AR 221	Basic Design
AR 222	Color and Design
AR 223	Graphic Design I
AR 325	Printmaking I
AR 341	Painting I
AR 371	Three Dimensional Design
AR 377	Ceramics I

Music Requirements—6 Credits from:

MU 160	Music Appreciation
MU 211	Music History I OR
MU 212	Music History II
MU 213	Jazz Appreciation
MU 320	Music and Art: Historical Survey

GRAPHIC COMMUNICATION MINOR

24 Credits

Requirements:

AR 114	Introduction to Graphic Design
CA 220	Newswriting
CA 250	Mass Communication

AR 209	Photography I
AR 221	Basic Design
AR 223	Graphic Design I
AR 224	Graphic Design II

3 credits from:

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

ART HISTORY MINOR

18 Credits

Requirements:

AR 311	Art History I: Ancient to Medieval
AR 312	Art History II: Renaissance to Modern
AR 280	Art Appreciation: An Experimental Approach
AR 313	Women Artists: Historical Survey
AR 314	Impressionism to Today
AR 316	American Art

ART MINOR

18 Credits

Requirements:

AR 101	Drawing I
AR 221	Basic Design
AR 222	Color and Design

9 credits from:

AR 114	Introduction to Graphic Design
AR 209	Photography I
AR 223	Graphic Design I
AR 325	Printmaking I
AR 340	Painting I
AR 371	Three-Dimensional Design
AR 377	Ceramics I

MULTIMEDIA MINOR

18 Credits

Required Courses:

AR 114	Introduction to Graphic Design
AR 221	Basic Design

12 credits from:

AR 223	Graphic Design I
AR 224	Graphic Design II
AR 300	Graphic Design III
AR/IS 365	Web Site Design and Development
AR/IS 243	Multimedia Development
AR/IS 443	Advanced Multimedia Development

COURSE OFFERINGS**AR 101 Drawing I 3 cr.**

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

AR 102 Drawing II 3 cr.

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

AR 103 Life Drawing 2 cr.

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

AR 114 Introduction to Graphic Design 3 cr.

The entry level course for the Graphic Design Major providing the student 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 209 Black and White Photography I 3 cr.

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

AR 210 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. Prerequisites: AR 114 and 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/IS 243 Multimedia/Interactive Media I 3 cr.

Introduction to the concepts of multimedia software, hardware, development concepts and basic visual and human interface design issues. Hands-on experience with multimedia hardware and software. Prerequisite: AR 221 and IS 220

AR 280 Art Appreciation: An Experimental Approach**3 cr.**

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

AR 300 Graphic Design III**3 cr.**

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 and African will also be presented in conjunction with American art. All of these influences have contributed to the unique appearance of American art, particularly in the 20th century.

AR 325 Printmaking I**3 cr.**

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

AR 326 Printmaking II**3 cr.**

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

AR 341 Painting I**3 cr.**

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

AR 342 Painting II**3 cr.**

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

AR 360 Art Methods**3 cr.**

Study of curriculum and instruction appropriate to aesthetic/artistic growth and development from preschool through 12th grade. Methods, materials and approaches are examined for classroom use. Includes practice teaching and studio time. Prerequisite: AR 221 or AR 280.

AR/IS 365 Web Site Design and Development**3 cr.**

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

AR 371 Three-Dimensional Design**3 cr.**

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

AR 377 Ceramics I 3 cr.

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

AR 378 Ceramics II 3 cr.

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

AR 391, 392, 393, 394 Selected Topics 1-3 cr.**Independent Study AR 398** 1-3 cr.**AR 400 Graphic Design IV** 3 cr.

The course focuses on the development of personal design methodology. Emphasis based on developing individual concepts in a mature and thorough manner through research, brainstorming, conceptual development and execution of concept. Project refinement and a culminating project. Prerequisite: AR 300

AR/IS 443 Advanced Multimedia 3 cr.

Focus on the physical design, testing and implementation of a multimedia module developed with an authoring language like Authorware. Prerequisite: BU 222 and 243.

AR 490 Professional Practices 3 cr.

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

AR 491 Senior Studio 3 cr.

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

AR 492 Senior Studio 3 cr.

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

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

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

**BIOLOGY MAJOR:
BACHELOR OF SCIENCE PROGRAM**

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

Requirements:

BI 110, 111,
112, 113 General Biology and Lab
BI 260, 261 Ecology and Lab
BI 270, 271 Cell Biology and Lab
BI 481 or 482 Coordinating Seminar

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 Physiology I and Lab
 BI 302, 303 Mammalian Anatomy and Physiology II and Lab
 BI 320 Evolution
 BI 322 Animal Behavior
 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.

SUMMER LABORATORY RESEARCH INTERNSHIPS

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

BIOLOGY MAJOR: BACHELOR OF ARTS PROGRAM

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

Requirements:

- BI 110, 111, 112, 113 General Biology and Lab
 BI 260, 261 Ecology and Lab

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

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

Group A – Cell and Molecular Biology

- BI 305, 306 Biochemistry I and Lab
 BI 340, 341 Parasitology and Lab
 BI 350 Genetics
 BI 360, 361 Microbiology and Lab
 BI 430 Immunology

Group B – Organismal Biology

- BI 300, 301 Mammalian Anatomy and Physiology I and Lab
 BI 302, 303 Mammalian Anatomy and Physiology II and Lab
 BI 320 Evolution
 BI 322 Animal Behavior
 BI 460 Endocrinology

BIOLOGY MINOR

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

Requirements:

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

8 credits from the following:

- BI 305, 306 Biochemistry I and Lab
 BI 300, 301 Mammalian Anatomy and Physiology I and Lab
 BI 302, 303 Mammalian Anatomy and Physiology II and Lab
 BI 350 Genetics
 BI 360, 361 Microbiology and Lab

BI 405, 406	Biochemistry II and Lab
BI 460	Endocrinology
BI 475	Advanced Cell Biology
BI 481 or 482	Coordinating Seminar

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

54 Credits

Biology Requirements:

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

8 credits from:

BI 300, 301	Mammalian Anatomy and Physiology I and Lab
BI 302, 303	Mammalian Anatomy and Physiology II and Lab
BI 320	Evolution
BI 420, 421	Developmental Biology and Lab

8 credits from:

BI 340, 341	Parasitology and Lab
BI 350	Genetics
BI 360, 361	Microbiology and Lab
BI 430	Immunology
BI 460	Endocrinology
BI 470	Advanced Cell Biology

16 credits from:

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

Mathematics Requirement:

MA 221	Statistics I
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One additional Math course selected with academic advisor's approval. **Recommended:** MA 300 Statistics II.

See **EDUCATION** for Professional Education Requirements.

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

58 Credits

Biology Requirements:

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

10 additional credits from:

BI 300, 301	Mammalian Anatomy and Physiology I and Lab
BI 302, 303	Mammalian Anatomy and Physiology II and Lab
BI 320	Evolution
BI 350	Genetics
BI 360, 361	Microbiology and Lab
BI 430	Immunology

Chemistry Requirements:

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

4 additional credits from:

CH 308	Environmental Chemistry
CH 310, 311	Quantitative Analysis and Lab

8 additional credits from:

PS 180, 181,	
182, 183	Basic Physics and Lab
CH 220, 221	Earth Science and Lab

See **EDUCATION** for Professional Education Requirements.

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

20 Credits

Requirements:

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

See **EDUCATION** for Professional Education Requirements.

COURSE OFFERINGS

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

BI 105 Introduction to the Biological Sciences 3 cr.

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

BI 106 Introduction to the Biological Sciences Laboratory 1 cr.

One three-hour laboratory period weekly, which investigates the topics covered in the lecture. **Taken concurrently with BI 105.**

BI 110, 112 General Biology I, II 3, 3 cr.

An introductory course primarily for biology majors dealing with molecular, cellular, and organismal biology. The kingdoms of living organisms are surveyed. Topics in genetics, bioenergetics, ecology, and evolution are also included. Prerequisite for all biology courses numbered 260 or higher.

BI 111, 113 General Biology Laboratory I, II 1, 1 cr.

One three-hour laboratory period weekly investigating concepts covered in the lecture material. **Taken concurrently with the lecture course.**

BI 200 Environmental Science 3 cr.

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

BI 201 Environmental Science Laboratory 1 cr.

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

BI 230 Basic Anatomy and Physiology 3 cr.

A study of the structure and function of the systems of the human body; designed for students in elementary education, psychology, and to fulfill the General Education Requirement in Science.

BI 231 Basic Anatomy and Physiology Laboratory 1 cr.

One three-hour laboratory period weekly, emphasizing human organ systems, their locations and functions.

Taken concurrently with BI 230.

BI 260 Ecology 3 cr.

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

BI 261 Ecology Laboratory 1 cr.

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

BI 270 Cell Biology 3 cr.

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

BI 271 Cell Biology Laboratory 1 cr.

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

BI 291, 292, 293, 294 Selected Topics 1-3 cr.**BI 295, 395, 495 Cooperative Education 1-6 cr.**

An opportunity for on-the-job experience in a hospital or laboratory supervised by a professional in the area. Hours and credits arranged by the Division. Sophomore status and permission of faculty sponsor required.

BI 300, 302 Mammalian Anatomy and Physiology I, II 3, 3 cr.

A study of mammalian anatomy and physiology with emphasis on how these two interrelated concepts contribute to homeostasis. Topics covered in part I include cells, tissues, and the skeletal, muscular, nervous and endocrine systems. Systems covered in part II include the cardiovascular, respiratory, immune, digestive, urinary and reproductive systems.

BI 301, 303 Mammalian Anatomy and Physiology Laboratory I, II 1, 1 cr.

Laboratory studies will parallel the various systems covered in the lecture. The students will study these systems using dissections, 3-D models, computer simulations, microscope slides and experimentation.

Taken concurrently with BI 300 and 302.

BI 305 Biochemistry I 3 cr.

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 322 Animal Behavior 3 cr.

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

BI 330 Comparative Vertebrate Anatomy 3 cr.

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

BI 331 Comparative Anatomy Laboratory 1 cr.

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

BI 340 Parasitology 3 cr.

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

BI 341 Parasitology Laboratory 1 cr.

One-three hour laboratory period weekly learning techniques of identifying parasites throughout the phases of their life cycles using living specimens, prepared slides, kodachromes and Internet sites.

Taken concurrently with BI 340.

BI 350 Genetics 3 cr.

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

BI 360 Microbiology 3 cr.

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

BI 361 Microbiology Laboratory 1 cr.

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

BI 391, 392, 393, 394 Special Topics 1-3 cr.**BI 405 Biochemistry II 2 cr.**

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 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

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. (This list does not apply to Sports/ Recreation Management or Human Resources Development.) Several of these courses fulfill General Education Requirements as well.

Requirements:

BU 155, 156	Accounting Principles I, II
BU 230	Marketing Principles
BU 232	Business Communications
BU 240	Management Principles
BU 360	Corporate Finance
BU 425	Project Management
BU 473, 474	Business Law I, II
BU 395 or 495	Cooperative Education

EC 201	Principles of Microeconomics
EC 202	Principles of Macroeconomics
IS 260	Computer Decision-Making Applications
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

Goals:

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

- **Certified Public Accountant (CPA)**

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

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

Requirements:

Business Administration Core Courses + 24 credits in the following:

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

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 Resources 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 232	Business Communications
BU 240	Management Principles
BU 300	Principles of Supervision
BU 305	Management Information Systems
BU 341	Human Resources Management
BU 345	Organizational Behavior
BU 355	Compensation and Benefits
BU 425	Project Management
BU 436	Labor Relations
BU 473, 474	Business Law I, II
BU 395 or 495	Cooperative Education II or III
EC 201	Principles of Microeconomics
EC 202	Principles of Macroeconomics
EC/MA 221	Statistics I
IS 260	Computer Decision-Making Applications
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 helps students develop the conceptual knowledge as well as software, programming and analysis skills to prepare for careers in business or further graduate studies. The program stresses practical applications and field experience.

Requirements:

Business Administration Core Courses + 28-29 credits including:

BU 305	Management Information Systems
BU 385	Marketing Management
IS 222	Programming Logic and Design
IS 310	Systems Analysis
IS 323	Information Technology Hardware and Software
IS 335	Network Essentials
IS 350	Database Management Systems

Plus 2 of the following courses; at least 1 must be a programming course, including lab:

IS 223	Visual Basic Programming
IS 224	Visual Basic Programming Lab
IS 333	Java Programming
IS 334	Java Programming Lab
IS 336	C++ Programming
IS 337	C++ Programming Lab
IS 243	Multimedia Development
IS 365	Web Site Design and Development
IS 443	Advanced Multimedia Development

MANAGEMENT MAJOR

Goals:

Students in Management are prepared to function as creative leaders in various positions in society. Students who major in Management will develop a thorough knowledge of the functions of management (planning, organizing, staffing, controlling) and be able to apply this knowledge to large or small, for-profit or not-for-profit enterprises. They will be well equipped to work as mid-level managers, to continue 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	Management Information Systems
BU 341	Human Resources Management
BU 345	Organizational Behavior
BU 435	Business and Government
BU 436	Labor Relations

MARKETING MAJOR

Goals:

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

Requirements:

Business Administration Core Courses + 21 credits in the following marketing courses:

BU 301	Consumer Behavior
BU 375	Marketing Research
BU 380	Sales Management
BU 385	Marketing Management
BU 390	Advertising
BU 450	International Marketing

Plus 1 of the following courses:

AR 223	Graphic Design I
IS 243	Multimedia Development
IS 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

SPORTS/RECREATION MANAGEMENT**Goal:**

Provide an interdisciplinary curriculum that permits students to develop strengths in two or three fields involving the management of sports, a growing industry in the United States.

Students who are interested in careers in recreation, sports management, facilities management, sports information, or sports marketing will find that this course of study prepares them well for employment or for graduate study.

Core Course Requirements:

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

Sports/Recreation Core (15 Credits):

BU 270	Intro to Sports/Recreation Management
BU 348	Sport/Recreation Information & Marketing
BU 463	Organization & Administration of Sport/Recreation Programs
PY 201	General Psychology
PY 235	Sports Psychology

Business Core (32 Credits):

BU 155	Principles of Accounting I
BU 156	Principles of Accounting II
BU 230	Marketing Principles
BU 232	Business Communications
BU 240	Management Principles
BU 473	Business Law I
EC 201	Principles of Microeconomics
EC 202	Principles of Macroeconomics
IS 260	Computer Decision-Making Applications
MA 221	Statistics

In addition to the above courses, each student will choose one of the following areas of concentration:

Sports Information/Journalism (21 Credits):

BU 390	Advertising
IS 365	Web Site Design and Development
CA 220	Newswriting
CA 323	Writing for Non-Print Media
CA 250	Mass Communications
CA 403	Public Relations
CA 395 or 495	Co-operative Education Project

Sports Management (21 Credits):

BU 300	Principles of Supervision
BU 341	Human Resources Management
BU 345	Organizational Behavior
BU 462	Sport/Recreation Law
BU 465	Facilities Management
BU 474	Business Law II
BU 395 or 495	Co-operative Education Project

Sports Marketing (21 Credits):

BU 301	Consumer Behavior
BU 375	Marketing Research
BU 380	Sales Management
BU 385	Marketing Management
BU 390	Advertising
CA 403	Public Relations
BU 395 or 495	Co-operative Education Project

Recreation Management (22 Credits):

BI 230/231	Basic Anatomy & Physiology & Lab
BU 380	Sales Management
BU 465	Facilities Management
BU 395 or 495	Co-operative Education Project
HP 153	Care/Prevention of Athletic Injuries
HP 280	Nutrition for Lifetime Wellness
HP 321	Applied Exercise Physiology

MINOR IN ACCOUNTING**Lower Biennium Prerequisites (8 Credits):**

BU 155	Accounting Principles I
BU 156	Accounting Principles II

+ 16 Credits from the following:

BU 255	Intermediate Accounting I
BU 256	Intermediate Accounting II
BU 315	Auditing, OR
BU 320	Cost Accounting
BU 455	Advanced Accounting

MINOR IN INFORMATION SYSTEMS**Required Courses (15 Credits):**

BU 305	Management Information Systems
IS 222	Programming Logic and Design
IS 260	Computer Decision-Making Applications
IS 310	Systems Analysis
IS 350	Database Management Systems

Plus 1 course from the following (3 or 4 Credits):

Any IS course	numbered 223 or higher, or
BU 385	Marketing Management
	OR
BU 425	Project Management

MINOR IN FINANCIAL SERVICES MANAGEMENT**Lower Biennium Prerequisites (14 Credits):**

BU 155, 156	Accounting Principles I, II
EC 201	Principles of Microeconomics
EC 202	Principles of Macroeconomics

+ Required Upper Biennium Courses: 12 Credits 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):**

BU 155, 156	Accounting Principles I, II
BU 230	Marketing Principles
EC 201	Principles of Microeconomics
EC 202	Principles of Macroeconomics

+ Required Upper Biennium Courses (12 Credits):

BU 450	International Marketing
EC 305	Comparative Economic Systems
EC 440	International Economics
EC 442	International Finance

MINOR IN MANAGEMENT**Lower Biennium Prerequisites (6 Credits):**

BU 232	Business Communications
BU 240	Management Principles

+ Required Upper Biennium Courses (12 Credits):

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

MINOR IN MARKETING**Lower Biennium Prerequisites (6 Credits):**

BU 230	Marketing Principles
EC 201	Principles of Microeconomics
	OR
EC 202	Principles of Macroeconomics

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

BU 301	Consumer Behavior
BU 375	Marketing Research
BU 380	Sales Management
BU 385	Marketing Management
BU 390	Advertising
BU 450	International Marketing

MULTIMEDIA MINOR**Required Courses (6 Credits):**

AR 114	Introduction to Graphic Design
AR 221	Basic Design

+ 12 Credits from the following:

AR 223	Graphic Design I
AR 224	Graphic Design II
AR 300	Graphic Design III
IS 243	Multimedia Development
IS 365	Web Site Design and Development
IS 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 catalog as well as the General Education Requirements listed in the “Associate Degree Programs” section of the catalog. In addition, the following courses are required for the management program:

BU 155	Accounting Principles I
BU 230	Marketing Principles
BU 232	Business Communications
BU 240	Management Principles
EC 201	Principles of Microeconomics
EC 202	Principles of Macroeconomics
EC/MA 221	Statistics I
IS 220	Computer Productivity Applications
IS 260	Computer Decision-Making Applications

COURSE OFFERINGS

BU 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 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 or EC 100.

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 Principles 3 cr.

An examination of the basic principles, processes, and functions of management, including planning, organizing, staffing, directing, controlling and evaluation. A look at contributions from key classical theorists and present applications of these theories.

BU 255 Intermediate Accounting I 4 cr.

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

BU 256 Intermediate Accounting II 4 cr.

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

BU 270 Introduction to Sports & Recreation Management 3 cr.

An introduction to commercial recreation and sports and their function in the leisure service delivery system. Focus on socio/historical perspectives and ethical issues. Discussion of resources, financing, pricing, programming, and marketing.

BU 295 Cooperative Education 1-3 cr.

An on-campus initial work experience designed to introduce the student to the discipline of the workplace. Prerequisite: Sophomore standing and permission of advisor.

BU 300 Principles of Supervision 3 cr.

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

BU 301 Consumer Behavior 3 cr.

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

BU 303 Entrepreneurship 3 cr.

Principles and techniques of owning, operating, and managing a small business. How to obtain financing, location, expansion, franchising, facilities and resource management, and legal considerations are presented. Prerequisite: BU 240.

BU 305 Management Information Systems 3 cr.

Focus upon ways in which information systems can be created to give competitive advantages to businesses. Emphasis on effective management of information technology and organizational issues in information systems. Exploration of these issues through case studies. Prerequisite: IS 220.

BU 315 Auditing 4 cr.

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

BU 320 Cost Accounting 4 cr.

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

BU 325 Federal Income Tax 4 cr.

Study of federal income tax laws, regulations, and procedures as related and applied to individuals, partnerships, and corporations. Brief coverage of Ohio and related city income tax regulations and procedures is presented. Prerequisite: BU 156. *In the Weekend College format, this course is numbered BU 326 and 327. 2, 2 cr.*

BU 341 Human Resources Management 3 cr.

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

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 348 Sport/Recreation Information & Marketing 3 cr.

An analysis of techniques and strategies for publicizing and marketing sport and recreation programs. Focus on public relations and promotion, factors affecting consumer behavior, market management, and development of information and marketing plans. Prerequisites: BU 230, BU 270.

BU 355 Compensation and Benefits 3 cr.

A study of the principles and procedures for the determination of compensation levels, benchmark positions, wage structures and methods of payment. The course will also examine fringe benefits, their cost evaluation and the impact that benefits have on employee satisfaction and retention. Prerequisites: BU 156, BU 341.

BU 360 Corporate Finance 3 cr.

Study of how business corporations can plan for, acquire, and make maximum utilization of funds available to them. Extensive review of time value of money calculations and concepts. Investigate effects of taxes on types of business ownership, analysis of financial ratios, capital budgeting, rates of return, and risk analysis. Prerequisites: BU 156, EC 201-202, MA 145 or MA 220 or MA 221.

BU 370 Investments 3 cr.

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

BU 375 Marketing Research 3 cr.

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

BU 380 Sales Management 3 cr.

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

BU 385 Marketing Management 3 cr.

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

BU 390 Advertising 3 cr.

Examines the place of advertising in the marketing of goods and services, the planning of effective advertising, the use of media in advertising, and the management of advertising.

BU 391-394 Selected Topics 1-3 cr.

Advanced topics in business. Specific credit hours and topics to be arranged with department approval.

BU 395 Cooperative Education 1-3 cr.

A work experience designed to integrate course objectives with a practical experience in an off-campus work environment. Prerequisites: Permission of advisor and junior standing.

BU 425 Project Management 3 cr

Capstone course for all Business majors. Includes exploration of Project Management through case studies and projects. This course examines both the technical and behavioral aspects of project management. Students will participate in project teams throughout the semester. Prerequisite: senior standing or permission of instructor.

BU 435 Business and Government 3 cr.

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

BU 436 Labor Relations 3 cr.

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

BU 450 International Marketing 3 cr.

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

BU 455 Advanced Accounting 4 cr.

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

BU 462 Sport/Recreation Law 3 cr.

The interaction and application of law to particular topics in sports and recreation, including contractual and business obligations, drug testing, sports violence, labor relations, regulation of intercollegiate and amateur sports, and gender discrimination. Contracts, torts, professional responsibility, and constitutional law issues are explored. Strategies for reducing risks and minimizing litigation will be discussed. Prerequisites: BU 473, BU 474.

BU 463 Organization/Administration of Recreation Programs 3 cr.

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

BU 465 Facilities Management 3 cr.
Principles of financing, operating, and managing a sport and recreation facility. Overview of planning, design, construction, operation, maintenance, security, evaluation and risk management. Prerequisites: BU240, BU270

BU 473, 474 Business Law I, II 3, 3 cr.
Nature, purpose, and functions of law with special emphasis on its relation to business. Fundamentals of the law of contracts, agency, sales, commercial paper, banking, property, partnerships, corporations, bankruptcy, trade regulations, secured transactions, investment securities, and documents of title. Prerequisite: junior standing.

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

BU 495 Cooperative Education 1-6 cr.
An advanced work experience with clear career or project orientation designed for juniors and seniors with prior on-the-job-training. Prerequisite: permission of advisor.
A maximum of six credits in Cooperative Education may be used toward fulfilling the major requirements or the general degree requirements.

CHEMISTRY

CHEMISTRY MAJOR: BACHELOR OF SCIENCE PROGRAM

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

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

CHEMISTRY CORE

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 460 Endocrinology
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**35 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, 301 Mammalian Anatomy and Physiology I
 and Lab
 BI 302, 303 Mammalian Anatomy and Physiology II
 and Lab
 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:

EN 220 Newswriting
 EC 201 Principles of Microeconomics
 EC 202 Principles of Macroeconomics

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

Marketing Sequence:

BU 230 Marketing Principles

9 credits from the following:

BU 301 Consumer Behavior
 BU 375 Marketing Research
 BU 380 Sales Management
 BU 385 Marketing Management
 BU 390 Advertising
 BU 450 International Marketing

Management Sequence:

BU 232 Business Communication
 BU 240 Management Principles

6 credits from the following:

BU 300 Principles of Supervision
 BU 305 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)

58 Credits

Biology Requirements:

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

10 additional credits from:

BI 300, 301 Mammalian Anatomy and Physiology I
 and Lab
BI 302, 303 Mammalian Anatomy and Physiology II
 and Lab
BI 320 Evolution
BI 350 Genetics
BI 360, 361 Microbiology and Lab
BI 430 Immunology

Chemistry Requirements:

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

4 additional credits from:

CH 308 Environmental Chemistry
CH 310, 311 Quantitative Analysis and Lab

8 additional credits from:

PS 180, 181,
182, 183 Basic Physics and Lab
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 and Lab or
CH 111, 113 College Chemistry and Lab
CH 220, 221 Earth Science and Lab
PS 150, 151 Elementary Physics & Lab

See **EDUCATION** for Professional Education Requirements.

BINARY PROGRAM IN ENGINEERING

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

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

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

SUMMER LABORATORY RESEARCH INTERNSHIPS

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

COURSE OFFERINGS

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

CH 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 I Laboratory** 1 cr.
One three-hour laboratory period weekly.
- CH 362 Physical Chemistry II** 3 cr.
An integrated classical and quantum approach to thermodynamics, statistical mechanics, dynamics, atomic and molecular structure. Prerequisite: CH 360
- CH 363 Physical Chemistry II Laboratory** 1 cr.
One three-hour laboratory period weekly.
- CH 381 Technical Writing** 3 cr.
Development of organizational and writing techniques for preparing technical communications, scientific research papers, publications, grant proposals, etc.
- CH 405 Biochemistry II** 3 cr.
Advanced biochemical theory and techniques used in contemporary biochemical and molecular biology studies. Prerequisites: BI/CH 305 or the equivalent.
- CH 406 Biochemistry II Laboratory** 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 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. Prerequisites: 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 Goals:

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 223	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 in addition to the core requirement.

One of the following:

AR 224	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. Also listed as TR 112

Explores basic theory and practice in the art of communicating literature: prose, poetry, and drama. Selection, analysis, and performance are the primary areas of focus.

CA 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 Theater 3 cr.

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

CA 262 Modern Drama and Theater 3 cr.

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

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

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

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

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

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

CA 324 Writing for Publication 3 cr.
An advanced professional writing course, providing experiences in freelance writing in various genres. All students will play an active role in writing or layout for the College newspaper *Notre Dame News*. Prerequisite: CA/EN 220 or Department permission.

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

CA 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	Principles of Microeconomics
EC 202	Principles of Macroeconomics

12 additional credits in Upper Biennium Economics courses.

COURSE OFFERINGS

EC 100 Economics and Contemporary Issues 3 cr.

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

EC 201 Principles of Microeconomics 3 cr.

The second of a two-course sequence; this course introduces students to the social science of economics, and then examines the behavior of individual consumers and firms, as well as the role of government, in the product and resource markets. On what bases are decisions made to buy (demand) and sell (supply)? How are these markets structured? What if the market system does not work, or is not allowed to work? What is the proper role of the government in a market-based economy? Prerequisite: EC 202, or permission of instructor.

EC 202 Principles of Macroeconomics 3 cr.

The first of a two-course sequence in Principles of Economics; this course examines the goals of the macroeconomy (full employment, domestic price stability, economic growth, and stable international economic relations) and how they are promoted by the government's use of fiscal and monetary policy; the course concludes with a formal introduction to international economics, including the micro-based topics of international trade theory and commercial policy, as well as international finance and open-economy macroeconomics. Prerequisite: MA 110 or equivalent recommended.

EC 221 Statistics I 3 cr.

See MA 221 for course description.

EC 300 Statistics II 3 cr.

See MA 300 for course description.

EC 304 Economic History of the United States 3 cr.

A topical approach, within a chronological context, to the development of the American economy; topics examined include agriculture, industry, finance, transportation and communication, commerce, labor, and the role of the government in the economy.

EC 305 Comparative Economic Systems 3 cr.

A non-quantitative course that examines the bases for comparing economies and economic systems; studies the models of perfectly competitive market economies, centrally planned command economies, and the hybrid of market socialism; views examples of each of these at various levels of maturity and development. Prerequisite: EC 100 or EC 201-202 or permission of instructor.

EC 331 Money and Banking 3 cr.

An examination of the various forms of money and other financial assets and the markets in which they are traded; the roles of banks and other financial intermediaries and the effect of their behavior on their customers and the economy; the government's monetary policies and their impact on the economic activity of the country. Prerequisite: EC 201-202 or permission of instructor.

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

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

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

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

EC 442 International Finance 3 cr.
A study of the international monetary system and the balance of payments; foreign exchange markets and their implications for businesses involved in global decision-making; the issues surrounding foreign investment; international banks and other global financial resources. Prerequisite: EC 201-202 or permission of instructor.

EC 480 Labor Economics 3 cr.
A study of the workings and outcomes of the market for labor: the factors determining the demand for labor, and the labor supply decisions of workers; issues relating to the structure of wages and compensation; the incentives for and effects of educational and training investments; the effects of unions on wages, productivity, etc; the employment and wage effects of such social policies as minimum wage, OSHA, and antidiscrimination laws; the problems of unemployment and the impact of wages on inflation. Prerequisite: EC 201-202 or permission of instructor.

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

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

EDUCATION

TEACHER EDUCATION

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

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

Program Goals:

The Teacher Education Program at Notre Dame College is diversity-focused and strives to prepare and develop teachers who:

1. Demonstrate appropriate mastery of general, pedagogical and specific discipline subject matter;
2. Are concerned with the needs of all students;
3. Employ multiple teaching strategies to effectively achieve learning outcomes;
4. Are reflective and professional in educational practice.

Division Note:

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

Student Teaching:

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

LICENSURE AREAS**Early Childhood Education (Pre-K - Gr. 3)****Middle Childhood Education (Gr. 4 - 9)****Areas of Concentration—choose two**

Mathematics
Reading and Language Arts
Science
Social Studies

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

Integrated Language Arts
Integrated Mathematics
Integrated Social Studies
Life Sciences
Life Sciences and Chemistry

Multi-Age Education (Pre-K - 12)

Mild/Moderate Intervention Specialist
Spanish
Visual Arts

LICENSURE FOR EARLY CHILDHOOD EDUCATION (ECE) (PRE-K - 3)**General Content Requirement:****Natural Sciences (2)**

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

Social and Behavioral (4)

PY 201 General Psychology
GO 200 World Geography
HI 110 World Cultures
HI 200 US History

Mathematics (2)

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

Fine Arts (1)

AR 221 Basic Design
OR
AR 280 Art Appreciation: An Experimental Approach

Professional Education Core (8)

ED 202 Introduction to Education
ED 203 Field Experience for Introduction to Education
ED 204 Educational Psychology
ED 205 Psychology of Students with Special Needs
ED 206 Field Experience for ED 205
ED 301 Integrating Technology Across the Curriculum
ED 413 Student Teaching: ECE
ED 475 Issues in Education

Early Childhood Education Courses (10)

ED 221 Role of Phonics in Reading
ED 265 Foundations of Early & Middle Childhood Education
ED 332 Reading Across the Curriculum in ECE & MCE
ED 355 Assessment and Correction of Reading Disabilities
ED 376 Developmental Reading

Instruction in ECE

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

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

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

Professional Education Core (8)

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

Middle Childhood Education Courses (9)

ED 221	The Role of Phonics in Reading
ED 265	Foundations of Early & Middle Childhood Education
ED 332	Reading Across the Curriculum in ECE & MCE
ED 335	Reading in the Content Areas
ED 341	Curriculum Principles Pre-K -12
ED 342	Integrated Methods Pre-K - 12
ED 343	Field Experience for ED 342
ED 355	Assessment and Correction of Reading Disabilities
ED 380	Field Experience for Reading in ECE & MCE

Content Area Requirements: (Choose two areas)

Mathematics (5):

MA 110, MA 130, MA 131, MA 120, MA 221 OR MA 330

Reading & Language Arts (7):

CA 112, CA 250, EN 312, EN 314*
CA 220 OR EN 210 OR EN 318
EN 331 OR EN 332
EN 341 OR EN 342

Choose one:

EN 255, EN 256, EN 281, EN 381, EN 382

Science (5):

BI 105 & 106 OR 110 & 111 OR 112 & 113; BI 200 & 201; CH 100 & 101 OR CH 111 & 113; CH 220 & 221; PS 150 & 151

Social Sciences (6):

HI 110, HI 200, EC 100, GO 200, PO 210, SO 201 OR HI 210

* Recommended but NOT required

MIDDLE CHILDHOOD GENERALIST (GR. 4 - 6)

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

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

General Content Requirement:

Social & Behavioral Sciences (2)

PY 201	General Psychology
HI 110	Western Civilizations from 1500

Professional Education Core (8)

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

Adolescent to Young Adult Core Courses (4)

ED 335	Reading in the Content Areas
ED 341	Curriculum Principles Pre-K - 12
ED 342	Integrated Methods Pre-K - 12
ED 343	Field Experience for ED 342

MAJOR FIELD

Students pursuing Adolescent/Young Adult and Multi-Age licensure must complete a major field of study AND all certification requirements of the teaching field.

Additional content credits needed for Licensure and Major: (Choose one)

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

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

Professional Education Core (10)

ED 202	Introduction to Education
ED 203	Field Experience for ED 202
ED 204	Educational Psychology
ED 205	Psychology of Students with Special Needs
ED 206	Field Experience for ED 205
ED 301	Integrated Technology Across the Curriculum
ED 341	Curriculum Principles Pre-K - 12
ED 342	Integrated Methods Pre-K - 12
ED 343	Field Experience for ED 342
ED 414	Student Teaching: MMIS

MMIS Core (10)

ED 210	Planning for Instruction
ED 221	The Role of Phonics in Reading
ED 335	Reading in the Content Areas
ED 355	Assessment & Correction of Reading Disabilities
ED 376	Developmental Reading Instruction in ECE
ED 380	Field Experience for Reading Core
ED 352	Student Class Management
ED 353	Assessment of Special Needs
ED 354	Instructional Strategies in Mild Moderate
ED 330	Collaborative Teaming

TEACHER EDUCATION EVENING LICENSURE PROGRAM (PRE-K 3; 4-9; 7-12; MULTI-AGE)

This program is designed for those students who already hold a baccalaureate degree and wish to pursue a career in teaching. (See special bulletin of information and worksheet about the various licensure program requirements available from the Education Office.)

Required Professional Education Courses:

ED 204	Educational Psychology: Learning and Human Abilities
ED 205	Psychology of Students with Special Needs
ED 206	Field Experience for ED 205
ED 301	Integrating Technology Across the Curriculum
ED 335	Reading in the Content Areas
ED 380	Reading Field Experience (where Applicable)

ED 341	Curriculum Principles Pre-K - 12
ED 342	Integrated Methods Pre-K - 12
ED 343	Field Experience for ED 342 Student Teaching & Seminar

Major field of study. (Students must complete all content coursework in the teaching field(s) and for licensure prior to student teaching.)

FIELD-BASED EXPERIENCE

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

Admission to the Education Division

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

COURSE OFFERINGS

ED 202 Introduction to Education 3 cr.

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

ED 203 Field Experience .5 cr.

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

ED 204 Educational Psychology: Learning and Human Abilities 3 cr.

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

ED 205 Psychology of Student with Special Needs 3 cr.

Overview of the life-span of students with special learning needs. Focus will be placed on the characteristics in mental, sensory, physical, communicative, social and emotional development which affect learning and adaptive behavior. Discussion of issues related to education, family, life; federal and state legislation. Prerequisite: PY 201.

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

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

ED 210 Planning for Instruction 3 cr.

This initial course for the special education license emphasizes classroom instructional strategies that result in increased student achievement for the student with special needs. Students will develop the skill of adapting lessons and a unit plan that speaks to the needs of one or more students with specific learning disabilities.

ED 221 The Role of Phonics in Reading 3 cr.

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

ED 265 Foundations of Early and Middle Childhood Education 3 cr.

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

ED 291, 292, 293 Special Topics 1-3 cr.**ED 301 Integrating Technology Across the Curriculum** 3 cr.

An intermediate course which further develops electronic communications with emphasis on Internet resources, Telnet and e-mail; issues of productivity and interactive technologies; evaluation of software programs. Emphasis is placed on the integration of technology across the P - 12 curriculum. Guidelines for selecting Internet services and pertinent educational sites on the Internet. Additional use of assistive technology for students with special needs. Overview of more advanced troubleshooting such as extension conflicts, upgrades, reinstallation of system software. Prerequisites: ED 204 and IS 220 or placement.

ED 330 Collaborative Teaming 3 cr.

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

ED 332 Reading Across the Curriculum in ECE and MCE 3 cr.

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

ED 335 Reading in the Content Areas 3 cr.

This course is designed to explore the techniques used in the development of successful student reading of subject matter content. Prerequisites: ED 202, 204, 205 and formal admission to the Division of Education.

ED 341 Curriculum Principles P-12 3 cr.

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

ED 342 Integrated Teaching Methods P - 12 3 cr.

Effective teaching methodology is introduced that addresses the needs of today's diverse classroom. Prerequisites: Completion of ALL other education coursework and 95% of content work. Must be ready to student teach in the next semester following the completion of this course. Formal admission to the Division of Education.

ED 343 Field Experience for ED 342 1 cr.

Field placement component for the ED 342 methods class required of ALL education majors/minors. The planning, teaching and reflection of multiple lessons taught at an off-site location determined by the instructor and/or Field Placement Director. (Must be taken concurrently with ED 342.) Pass/fail grade.

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. Twenty (20) hours of field experience required.

ED 353 Assessment of Special Needs 3 cr.

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

ED 354 Instructional Strategies for Mild/Moderate 3 cr.

Instructional strategies for the student with mild and moderate disabilities provide both the theoretical and practical aspects of developing an Individual Education Plan for the student with special needs. Included in the course is the use of accommodations, methods for planning and monitoring instruction, choosing and developing materials and integrating technology to ensure that student abilities are acknowledged. Twenty-five (25) hours of field experience required.

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.

ED 376 Developmental Reading Instruction in ECE 3 cr.

A comprehensive approach to the development of reading with a focus on language development, oral communication skills and reading/writing through developmentally, individually and age-appropriate activities for young children. Emphasis on children's progress in literacy development, appropriate teaching methodologies and the holistic approach throughout the entire curriculum for young children of diverse learning needs. Prerequisites: ED 202, 204, 205, 221, 265, 355 and formal admission to the Division of Education.

ED 379 Music, Creative Arts and Physical Movement Activities in ECE 3 cr.

This course focuses on appreciation for and the integration of art, music and physical movement activities into the classroom learning environment. Students will learn strategies and techniques to meet the needs of students with diverse needs and cultural backgrounds in the context of developmentally appropriate practice. Prerequisites: ED 204, ED 265.

ED 380 Field Experience for Reading for ECE, MCE & MMIS Licensure 3 cr.

Field placement component for the reading core required for early and middle childhood licenses. Thirty (30) hours of observation/activities at an appropriate site as determined by the instructor and/or Field Placement Director. Must be taken concurrently with the ED 355 class (MCE & MMIS licenses) OR ED 376 (ECE license). Prerequisites: ED 221 for middle childhood license & MMIS; ED 221 and ED 355 for early childhood license. Pass/fail grade.

ED 391, 392, 393, 394 Selected Topics 1-3 cr.**ED 412 Student Teaching: Middle Childhood 6, 12 hrs.**

Fifteen (15) weeks of student teaching in a chartered school in middle childhood classrooms (4 - 9) in one or both areas of concentration under the supervision of cooperating teachers and a college supervisor. Prerequisite: Department approval. ALL education coursework and content-area coursework must be completed prior to student teaching. Formal application made one semester prior to student teaching.

ED 413 Student Teaching: Early Childhood 6, 12 hrs.

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

ED 414 Student Teaching: MMIS 6, 12 hrs.

Fifteen (15) weeks of student teaching in a chartered school in the special education classroom (K - 12) under the supervision of a cooperating teacher and a college supervisor. Prerequisite: Departmental approval. ALL education coursework and content—area coursework must be completed prior to student teaching. Formal application made one semester prior to student teaching.

ED 421 Student Teaching: Adolescent to Young Adult (AYA) 12 hrs.

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

ED 475 Issues in Education 3 cr.

An integrative seminar which focuses on an understanding of current issues affecting education and educational practices in the United States, and the role of the professional educator in responding to these issues. Students are required to make a portfolio presentation. Formal admission to the Division of Education and senior status required. Must be taken immediately following student teaching (fall) or during student teaching (spring).

ED 491, 429, 493, 494 Special Projects 1-3 cr.

ENGLISH

Program Goals:

1. All graduates of the English program will demonstrate skill in reading comprehension, problem solving, critical thinking and effective writing to be effective in advanced study and in the workplace.
2. All graduates of the English program will demonstrate the beginnings of a life-long love for literature and the performing arts.

ENGLISH MAJOR

46-48 Credits**Requirements:**

CA 112	Oral Interpretation
EN 210	Critical Writing
EN 312	History of the English Language
EN 314	Workshop in Advanced Grammar
EN 321	Introduction to Literary Theory and Criticism
EN 331	British Literature to 1700
EN 332	British Literature 1700-1900
EN 341	American Literature to 1900
EN 342	Seminar in American Literature

- EN 395 or 495 Cooperative Education (1-3 cr.)
 EN 462 Shakespeare's Histories and Tragedies
 EN 480 Great Books Seminar
 EN 482 English Studies

One of the following:

- EN 220 Newswriting
 EN 318 Creative Writing
 EN 323 Writing for the Non-Print Media
 EN 324 Writing for Publication

One of the following:

- EN 459 Postcolonial Literature
 EN 460 Literature of Continental Europe

One of the following:

- CA 250 Mass Communication
 CA 305 Film Studies
 CA 410 TV/Radio

ENGLISH MINOR**24 Credits****Requirements:**

- CA 112 Oral Interpretation
 EN 462 Shakespeare's Histories and Tragedies
 EN 480 Great Books Seminar

One of the following:

- EN 210 Critical Writing
 EN 220 Newswriting
 EN 318 Creative Writing

One of the following:

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

Three courses in British, American, or world literature.

WRITING MINOR**21 Credits****Requirements for all Emphases (12 Credits):**

- EN 210 Critical Writing
 EN 220 Newswriting
 EN 318 Creative Writing
 EN 482 English Studies

Drama/Screenwriting Emphasis:

Add three of the following (9 credits):

- EN 261 The Drama and Theater
 EN 262 Modern Drama and Theater
 CA 305 Film Studies
 EN 381 Women Playwrights
 EN 461 Shakespeare's Comedies
 EN 462 Shakespeare's Histories and Tragedies

Poetry Emphasis:

Add three of the following (9 credits):

- EN 255 Introduction to Western Literature:
 Epics and Poetry
 EN 332 British Literature 1700-1900
 EN 342 Seminar in American Literature
 EN 370 20th Century British and American
 Poetry

Fiction Emphasis:

Add three of the following (9 credits):

- EN 256 Introduction to Western Literature: Prose
 EN 281 Short Story
 EN 342 Seminar in American Literature
 EN 369 British and American Novels since 1800

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

42 Credits**Requirements:**

- CA 112 Oral Interpretation
 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

One of the following:

- EN 210 Critical Writing
 EN 318 Creative Writing

One of the following:

- CA 250 Mass Communication
 EN/CA 323 Writing for the Non-Print Media
 CA 410 Television and Radio

One of the following:

- CA/TR 309 Acting and Directing
 CA/TR 313 Event/Play Production Apprenticeship
 CA 374 Presentation Techniques

Four of the following:

EN 331	British Literature to 1700
EN 332	British Literature 1700-1900
EN 341	Main Currents in American Literature to 1900
EN 342	Seminar in American Literature
EN 343	Major African-American Writers
EN 369	British and American Novels since 1800
EN 370	20th Century British and American Poetry

One of the following:

EN 255	Introduction to Western Literature: Epics and Poetry
EN 256	Introduction to Western Literature: Prose
EN 261	The Drama and Theater
EN 262	Modern Drama and Theater
EN 381	Women Playwrights
EN 382	Women Writers
EN 459	Postcolonial Literature
EN 460	Literature of Continental Europe
EN 461	Shakespeare's Comedies

See **EDUCATION** for Professional Education Requirements.

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

24 Credits

Requirements:

CA 112	Oral Interpretation
CA 250	Mass Communication
EN 312	History of the English Language
EN 314	Workshop in Advanced Grammar

One of the following:

CA 220	Newswriting
EN 210	Critical Writing
EN 318	Creative Writing

One of the following:

EN 331	British Literature to 1700
EN 332	British Literature 1700-1900

One of the following:

EN 341	Main Currents in American Literature to 1900
EN 342	Seminar in American Literature

One of the following:

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

See **EDUCATION** for Professional Education Requirements.

ENGLISH MAJOR WITH A PRE-LAW CONCENTRATION

46-48 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, co-operative 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
EN 314	Workshop in Advanced Grammar
EN 331	British Literature to 1700
EN 332	British Literature 1700-1900
EN 341	American Literature to 1900
EN 342	Seminar in American Literature
EN 395/495	Cooperative Ed. (in a legal field)
EN 462	Shakespeare's Histories and Tragedies
EN 480	Great Books Seminar
EN 482	English Studies

One of the following:

CA 250	Mass Communication
CA 305	Film Studies
CA 410	TV/Radio
EN 323	Writing for Non-Print Media
EN 324	Writing for Publication
EN 459	Postcolonial Literature
EN 460	Literature of Continental Europe

To fulfill the social science requirement, and as electives, choose as many as possible from U.S. HISTORY, POLITICAL SCIENCE, PSYCHOLOGY, AND SOCIOLOGY especially:

PY 201 General Psychology
PO 315 Constitutional Law

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 Notre Dame College'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 Western Literature: Epics and Poetry 3 cr.

A study of representative epics and poems with an emphasis on their relevance to the development of Western civilization.*

EN 256 Introduction to Western Literature: Prose 3 cr.

A course focusing on selected prose works, including selections from a variety of literary periods and genres.*

EN 261 The Drama and Theater 3 cr.

Study of dramatic literature, acting, stage design, production, and theatrical styles and trends from the classical age of Greece to the middle of the nineteenth century. Recommended preparation for EN 262.*

EN 262 Modern Drama and Theater 3 cr.

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. Required for English majors and those preparing for AYA and Middle Childhood licensure, and recommended for English minors.*

EN 314 Workshop in Advanced Grammar 3 cr.

A systematic study of traditional grammar with applications to writing, revising and editing, literary analysis, and teaching English language arts. Required for English majors and those preparing for AYA and Middle Childhood licensure, and recommended for English minors.*

- EN 318 Creative Writing** 3 cr.
Develops skill in imaginative writing: poetry, fiction and non-fiction.*
- EN 321 Introduction to Literary Theory and Criticism** 3 cr.
An introduction to critical methodology and issues in literary criticism and contemporary theory, using both theoretical and literary texts. Recommended preparation: EN 210.*
- EN 323 Writing for the Non-Print Media** 3 cr.
Also listed as CA 323. Offers instruction and practice in professional writing skills needed for careers in advertising, public relations, radio, and television. Prerequisite: EN 220.
- EN 324 Writing for Publication** 3 cr.
An advanced professional writing course providing experiences in freelance writing in various genres. All students will play an active role in writing or layout for the college newspaper *Notre Dame News*. Prerequisite: EN 220.
- EN 331 British Literature to 1700** 3 cr.
A chronological survey of British literature and its historical and social background from the earliest times to 1700, with readings from the highlights of major works.*
- EN 332 British Literature 1700-1900** 3 cr.
A chronological survey of British literature and its historical and social background during the 18th and 19th centuries. Readings include samples of major works of the period.*
- EN 341 Main Currents in American Literature to 1900** 3 cr.
A historical survey of American literature from its Native American and colonial beginnings to the end of the nineteenth century, with emphasis on themes, images, stylistic techniques, and cultural assumptions in the works of major literary figures.*
- EN 342 Seminar in American Literature** 3 cr.
A concentration on 20th century American literature, with emphasis on the relationship between literature and its cultural and intellectual contexts.*
- EN 343 Major African-American Writers** 3 cr.
Analysis and discussion of selected works of major African-American authors.*
- EN 369 British and American Novels since 1800** 3 cr.
Reading and discussion of significant British and American novels.*
- EN 370 20th Century British and American Poetry** 3 cr.
Poetry, theory, and techniques of modern poets such as Hopkins, Yeats, Eliot, Pound, Frost, Cathy Song, Lorna Dee Cervantes.*
- EN 381 Women Playwrights** 3 cr.
Analysis and discussion of the works of selected women playwrights of the twentieth century.*
- EN 382 Women Writers** 3 cr.
Analysis and discussion of works of selected women writers with emphasis on exploration of vital issues from women's perspectives.*
- EN 391, 392, 393, 394 Selected Topics** 1-3 cr.
- EN 459 Postcolonial Literature** 3 cr.
Reading and analysis of literature reflecting the hybridity of cultures in nations which were once part of European empires. Some introductory study of postcolonial theory. Junior-senior standing required, or Departmental permission. *
- EN 460 Literature of Continental Europe** 3 cr.
Study of the structures and themes in the principal works of representative European writers. Junior-senior standing required, or departmental permission.*
- EN 461 Shakespeare's Comedies** 3 cr.
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 texts, important for their literary genres and their impact on the history of ideas. An examination of the themes and values of western civilization. Junior-senior standing required.*

EN 482 English Studies**3 cr.**

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

EN 491, 492, 493, 494 Independent Study**1-3 cr.**

An opportunity for junior and senior level students in good academic standing and possessing the necessary skills, to pursue a research topic or to develop a project. Closely directed by a faculty member.

CH 432	Coordinating Seminar
CH 295 or	
BI 295	Cooperative Education
BI 110, 111,	
112, 113	General Biology & Lab
BI 200, 201	Environmental Science & Lab
BI 260, 261	Ecology & Lab
BI 360, 361	Microbiology & Lab
BI 322	Animal Behavior
EN 220	Newswriting
MA 221	Statistics I
MA 300	Statistics II
PH 380	Bioethics*

* Fulfills GER in Philosophy

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

60 Credits**Requirements:**

CH 111, 113,	
114, 115	College Chemistry & Lab
CH 211, 213	Organic Chemistry I & Lab
CH 220, 221	Earth Science & Lab
CH 308	Environmental Chemistry
CH 310, 311	Quantitative Analysis and Lab

Recommended Electives:

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

** Either course fulfills GER in Social Sciences

Students are strongly encouraged to select a minor or a second major that would enhance their studies and job opportunities. Some possible minors include the following:

Minor	Required Credits
Biology	24 (8 additional)
Business Administration	28
Chemistry	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 HEALTH EDUCATION

22-25 Credits

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

Requirements:

Bio 230, 231 Anatomy and Physiology
HP 110 Wellness for College Life

OR

HP 112 Lifetime Wellness
HP 213 Stress Management
HP 215 Nutrition for Sport, Fitness, Health
HP 315 Understanding Sexuality
HP 321 Applied Exercise Physiology
HP 310 Health Psychology

Recommended Electives:

HP 153 Care and Prevention of Athletic Injuries
PY 254 Adolescent Psychology
PY 351 Psychology of Adult Development
SO 425 Conflict Management

MINOR IN COACHING

23-25 Credits

An excellent minor for education majors and anyone interested in coaching in a school or recreational setting. Students can develop an acquaintance with skills needed to coach a variety of sports. This minor includes CPR and First Aid Certification as required by the State of Ohio for school athletic coaches.

Requirements:

BI 230, 231 Anatomy and Physiology
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
HP400 Practicum in Coaching
HP 215 Nutrition for Sport, Fitness, and Health
PY/HP 388 Psychology and Ethics of Coaching

Recommended Electives:

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

MAJOR IN SPORTS RECREATION/ MANAGEMENT

68-69 Credits

For information on this major, please refer to the Business Administration section of this catalog

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 adult women and men with life experience. Content integrates our physical, psychological, social, and spiritual selves.

HP 115 Exercise and Conditioning 1 cr.

Designed to increase cardiovascular efficiency, flexibility, strength, and endurance through an individually planned exercise program.

HP 153 Care and Prevention of Athletic Injuries 3 cr.

Methods of preventing common athletic injuries. First Aid, CPR, Safety Education, and discussion of blood borne pathogens. American Red Cross and Ohio Certification granted if all criteria are met.

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

HP 213 Stress Recognition and Management 3 cr.

Physiology of the stress response, effects on body organs and systems, implications for health and relationships. Examination of internal and external stressors. Techniques for identifying and effectively managing personal lifestyle stressors.

HP 215 Nutrition for Sport, Fitness, and Health 3 cr.

Basic principles of nutrition, stressing components necessary for the maintenance of good health, optimal athletic performance, and disease prevention. Prerequisite: HP 110 or 112

HP 230 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 291, 292, 293, 294 Selected Topics 1-3 cr.**HP 315 Understanding Sexuality** 3 cr.

A holistic health and psychosocial perspective on understanding sexuality as a composite of one's total being. Topics include physiology and health of the reproductive system; sexual behavior, components of sexual choice; gender issues, sexuality and the life cycle. This course can be chosen as an elective for the Women's Studies Minor.

HP 321 Applied Exercise Physiology 3 cr.

The study of systemic adaptations that occur during training, conditioning, and sports competition; techniques for measurement and assessment of physiologic capacities; discussion of physical and psychological aids to performance. Prerequisite: HP 110/112 and BI 230/231

HP330 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. Prerequisite: PY 201

HP 350 Applied Kinesiology 3 cr.

Study of the scientific basis of human movement. Structure and analysis of muscular-skeletal systems and dynamics of movement. Application to individual fitness programs, lifetime physical activity, and coaching. Prerequisite: BI 230/231

HP 388 Psychology and Ethics of Coaching 3cr.

An exploration of the psychology and philosophy of the coaching experience and the player/coach relationship. Topics include: team and player motivation, leadership, dynamics, communication, goal setting, performance evaluation.

HP 391, 392, 393 Selected Topics 1-3 cr.**HP 400 Practicum** 1-3 cr.

Supervised coaching experience in a school or recreational setting.

HISTORY/POLITICAL SCIENCE

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

HISTORY MAJOR**39 Credits****Goals:**

The history 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, reading, writing, and research skills. The program prepares students for careers in high school and elementary education as well as graduate studies in history, law, library science 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 eighteen (18) credits in history are required. Six credits (6) credits must be completed in political science. Three (3) of the eighteen (18) credits in history must be from the following courses. HI 210, HI 330, HI 332, HI 333, HI 334.

A student who desires to do so may also declare an area of special interest within the History 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.

Outstanding students with a major or minor in History may be inducted into the Omicron Iota chapter of Phi Alpha Theta, the national history honorary society.

POLITICAL SCIENCE MAJOR

36 Credits

Goals:

The political science 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, reading, writing 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 eighteen (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

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

Requirements:

History:

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

An additional eighteen (18) hours in History are required. Six (6) credits must be completed in Political Science. Three of the eighteen (18) credits in History must be from the following courses: HI 210, HI 330, HI 332, HI 333, HI 334.

Although only one social science class is required, students planning to study law need a strong background in the social sciences and the humanities. Therefore, it is strongly recommended to choose as many courses as possible from this list:

PY 201	General Psychology (highly recommended)
PY 210	Social Psychology
PY 375	Psychology of Personality
PO 111	Introduction to Politics and Government
PO 210	American Government
HI/PO 315	American Constitutional Law (highly recommended)
SO 201	Introduction to Sociology
SO 310	Social Institutions
SO 425	Conflict Management and Resolution (recommended)

Any other 300 level or higher course in literature.

The following electives are also recommended:

CA 201	Interpersonal Communication
CA 374	Presentation Techniques (recommended)
BU 155, 156	Accounting Principles I and II
BU 435	Business and Government

INTERDISCIPLINARY MAJOR IN PUBLIC ADMINISTRATION

56-58 Credits

In addition to the common core, students pick a concentration from Human Resources 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 210	Anthropology
HI 330	Africa: A Continental History
HI 332	The Transformation of Japan
HI 333	The Middle East: From Islam to Nationalism
HI 334	The Making of Modern China

American Political Development:

Choose one from the following:

EC 432	Public Finance
PO 313	Public Policy in America
PO/HI 315	American Constitutional Law

The Interconnected World:

Choose two from the following:

EC 305	Comparative Economic Systems
EC 440	International Economics
PO 312	International Relations
PO 410	American Diplomacy
PO 411	International Law

The Modern Society:

Choose one from the following:

SO 201	Introduction to Sociology
SO 222	Problems of Contemporary Society
SO 305	Minority Groups

See **EDUCATION** for Professional Education Requirements.

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

18 Credits**Requirements:**

HI 110	Western Cultures from 1500
HI 200	Major Themes in American History
EC 100	Economics and Contemporary Issues
GO 200	Geography
PO 210	American Government
SO 201	Introduction to Sociology
	OR
HI 210	Anthropology

See **EDUCATION** for Professional Education Requirements.

COURSE OFFERINGS**History**

HI 110 Western Cultures from 1500 3 cr.
This course will examine the development of the Western World from 1500 to the present. Emphasis will be placed on the interaction between European culture and the culture of Africa, Latin America, the Middle East and Asia during the periods of colonialism, imperialism, and after independence.

HI 200 Major Themes in American History 3 cr.

A thematic survey of the political, economic, cultural development of American civilization from its inception to the present time. Themes will include the colonial experience, the development of the American nation, the national schism, American expansion, the evolution of American foreign policy, the American reform impulse, the growth of presidential power, and American diversity.

HI 301/WS 301 History and Themes of the Women's Movement 3 cr.

A course aimed at exploring how women have shaped and are shaping their own lives and the world. It begins with an overview of the role of women in Western culture since Paleolithic times. Then writers in the First Wave of Feminism (1840-1920) and from the Second Wave (1970 to the present) are surveyed.

The course will focus on themes relevant to students and to important current developments for women. Teaching is marked by collaboration, a key element in feminist methodology. Prerequisite: Sophomore or Instructor's permission.

HI 310 From Colonies to Nation: American History from 1600-1820 3 cr.

An examination of the emergence of the American nation, from the colonial experience through the revolutionary period and the early national period. Prerequisite: Sophomore or Instructor's permission.

HI 311 Forging the American Nation: The United States from 1820-1914 3 cr.

This course traces the growth of the United States during the 19th century. Major themes to be explored include expansion, slavery and sectionalism, reconstruction, industrialism, and imperialism through the Progressive Movement. Prerequisite: Sophomore or Instructor's permission

HI 312 America Ascendant: The United States from 1914 to the Present 3 cr.

Examines the development of the United States into a world superpower, focusing on the reforms of the New Deal, New Frontier/Great Society, and the Civil Rights Movement. Also considered is the assumption of international responsibility through two world wars and the Cold War. Attention is also paid to issues in American diversity and the divisions in the nation resulting from the Vietnam conflict along with recent issues of significance. Prerequisite: Sophomore or Instructor's permission.

HI/PO 315 American Constitutional Law 3 cr.

This course includes a study of the origins and development of the American constitutional system, focusing on Supreme Court decisions through a case study approach to the politics of judicial review, intergovernmental relations, the commerce, taxing and treaty and war powers and the Bill of Rights and their influence on American government and society. Prerequisite: Sophomore or Instructor's permission.

HI 320 The Classical World and the Transition to Feudalism 3 cr.

This course explores the development of the European world between 500 BCE and 1000 CE. The development of the classical ancient world and its subsequent collapse is examined, followed by the Dark Ages and the emergence of feudalism, with special attention paid to the political, economic and social aspects of feudal Europe. Prerequisite: Sophomore or Instructor's permission.

HI 321 Renaissance to Revolution 3 cr.

This course examines the reawakening of Europe beginning with the Renaissance, followed by the Age of Discovery, the Scientific Revolution, the Enlightenment and Industrial Revolution, concluding with the origins and effects of the French Revolution. Special attention is given to the spread of European culture globally and its initial impact on non-European societies. Prerequisite: Sophomore or Instructor's permission.

HI 322 "Isms", Revolution and Imperial Expansion 3 cr.

Explores the "long century" of European history following the end of the Napoleonic Wars to the eve of World War I. New themes in European thinking are examined, along with the spread of industrialism, the rise of nationalism and the resurgence of imperialism. Prerequisite: Sophomore or Instructor's permission.

HI 325 The Passing of the Old Order: Europe in the 20th Century 3 cr.

An examination of the end of the Balance of Power system and the devastating effects of the two world wars on Europe's place in the world. Beginning with the origins of World War I through the end of the Cold War, the reduction of western Europe's dominant position in the world will be investigated. Special attention will be given to the failure of the Treaty of Versailles, the rise of fascism, the Holocaust and the origins and effects of the Cold War on Europe. Prerequisite: Sophomore or Instructor's permission.

HI 330 Africa: A Continental History 3 cr.

Examines African history from earliest times to the present, with emphasis on the 19th and 20th centuries; the ancient African civilizations, the impact of Europe, the colonial era and the development of the modern independent African states. Prerequisite: Sophomore or Instructor's permission.

HI 332 The Transformation of Japan: From Feudalism to Nationhood 3 cr.

An investigation into the transition of Japan from a feudal, agrarian society dominated by a military dictatorship to a modern, western-style nation and the world's second leading economic power. The major aspects of traditional Japanese society, culture and politics will be examined first, followed by a study of creation of the modern Japanese state. Consideration will be given to the speed with which this transformation was accomplished, Japanese expansion and militarism and Japan's "economic miracle" following the World War II. Prerequisite: Sophomore or Instructor's permission.

HI 333 The Middle East: From Islam to Nationalism 3 cr.

This course examines Middle Eastern history from the time of Muhammad to the present, with emphasis on the 19th and 20th centuries: the origins and spread of Islam, the rise and fall of the Ottoman and Safavid Empires, the era of European imperialism, and the development of the contemporary Middle East. Prerequisite: Sophomore or Instructor's permission.

HI 334 The Making of Modern China 3 cr.

Focuses on the struggle to remake Chinese society in light of the effects of western imperialism on China. Traditional China is examined briefly, then the course focuses on China's struggles in the 19th and 20th centuries to throw off foreign encroachment and transform itself into a modern nation. Prerequisite: Sophomore or Instructor's permission.

HI 401 Colloquium on Historical Methodology 3 cr.

An exploration of the development of historiography as represented in the works of the world's great historians from ancient times to the present. Consideration will be given to methods of research, evaluation of historical evidence and historical interpretation. Prerequisite: Sophomore or Instructor's permission.

HI/PO 410 American Diplomacy 3 cr.

An examination of the evolution of American foreign policy from isolationism to the assumption of international responsibilities. Special attention will be paid to the increasing role of the executive in the making of American foreign policy. Prerequisite: Sophomore or Instructor's permission.

HI 411 African-American History: The Struggle for Freedom and Equality 3 cr.

An investigation of the role of Black Americans in the history of the United States through the years of slavery, the transition from servitude to freedom and the struggle to acquire equal rights within American society and the special contributions Black Americans have made to the development of the American nation. Prerequisite: Sophomore or Instructor's permission.

HI 450 Senior Research Seminar 3 cr.

This course explores research methodology and allows the students to develop a research project based on their interests and needs. Prerequisites: Twelve hours of history and senior standing.

HI 495 Cooperative Education (Junior Status) 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. Prerequisite: Sophomore or Instructor's permission.

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. Prerequisite: Sophomore or Instructor's permission.

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. Prerequisite: Sophomore or Instructor's permission.

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. Prerequisite: Sophomore or Instructor's permission.

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. Prerequisite: Sophomore or Instructor's permission.

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. Prerequisite: Sophomore or Instructor's permission.

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). Prerequisite: Sophomore or Instructor's permission.

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 Cooperative Education (Junior Status) 3 cr.

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.

INFORMATION SYSTEMS

Goals:

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

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

COURSE OFFERINGS

IS 120 Basic Computer Skills 3 cr.
This course will introduce the student to basic computer skills including: using a keyboard, using a mouse, word processing, using email, introduction to Web-based classroom management software, online discussion groups, other online collaboration tools and accessing information on the Internet. Computer placement test required.

IS 220 Computer Productivity Applications 3 cr.
Introduction to computers and information systems. Overview of computer hardware, software, and use in society. Instruction in advanced features of Windows, advanced word processing, and using spreadsheets, presentation graphics, and web page development software. Prerequisite: IS 120 or placement test.

IS 222 Programming Logic & Design 3 cr.
Language-independent course introducing the computer program design and development process. Identification and solution of business problems emphasized. Concepts include program structures, decision-making, flow control, algorithm development and arrays. Techniques include structured flow charts, hierarchy charts, and the use of pseudocode in program design. Prerequisite: MA 110 or concurrent.

IS 223 Visual Basic Programming 3 cr.
Introduction to the programming language Visual Basic as it is applied to business problems. Emphasis on the syntax of Visual Basic and techniques for developing, debugging, and documenting programs. Taken concurrently with IS 224 Visual Basic Programming Lab. Prerequisite: IS 222. *In the Weekend College format, the IS 223, IS 224 combination is numbered IS 225 and 226. 2, 2 cr.*

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

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

IS 260 Computer Decision-Making Applications 3 cr.
Focus on intermediate level skills in spreadsheet and database management packages. Emphasis on using the software tools to solve problems. Prerequisite: IS 220.

IS 310 Systems Analysis 3 cr.

Introduction to business systems analysis. The phases of the systems analysis and design cycle are examined using an approach that provides the student with a practical method for the application of systems techniques in the analysis, design, implementation, and evaluation of business information systems. Prerequisite: BU 305 and IS 260.

IS 323 Info Technology Hardware & Software 3 cr.

Principles and application of telecommunication and computer systems hardware and software will be presented through lecture, installation, configuration, and operations experiences. The course provides the hardware-software technology background to enable systems development personnel to understand tradeoffs in computer architecture for effective use in the business environment. Prerequisite: IS 220.

IS 333 Java Programming 3 cr.

Introduction to the Java programming language. Emphasis on the syntax of Java and techniques for developing, debugging, and documenting Java applications and Java applets. Taken concurrently with IS 334 Java Programming Lab. Prerequisite: IS 222. *In the Weekend College format, the IS 333, IS 334 combination is numbered IS 331 and 332. 2, 2 cr.*

IS 334 Java Programming Lab 1 cr.

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

IS 335 Network Essentials 3 cr.

Introduction to network technology for local area networks (LANs), wide area networks (WANs), and the Internet. Emphasis on planning, implementing, managing, and troubleshooting a network. Prerequisites: IS 220 and IS 323.

IS 336 C++ Programming 3 cr.

Introduction to the object-oriented computer programming language C++. Emphasis on the syntax of C++ and techniques for developing, debugging, and documenting programs. Taken concurrently with IS 337 C++ Programming Lab. Prerequisite: IS 222.

IS 337 C++ Programming Lab 1 cr.

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

IS 350 Database Management Systems 3 cr.

A study of problems in managing data as a valuable resource of an organization. Topics include data structures, data models (hierarchical, network, inverted, relational), database management systems, database administration, data dictionaries, database design, and issues related to data management (ownership, integrity, sharing, security, privacy). Exposure to microcomputer database management systems. Prerequisite: IS 222, IS 260 and IS 310.

IS 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: IS 220.

IS 391-394 Selected Topics in Info Systems 3 cr.

Study of selected topics in Information Systems. Topics will vary; title will reflect topics covered in a particular offering. Some possibilities are Advanced Web Site Development, Using VBA with Microsoft Office, Advanced Spreadsheet Analysis. Prerequisite varies with topic.

IS 443 Advanced Multimedia Development 3 cr.

Focus on the physical design, testing, and implementation of a multimedia module developed with an authoring program such as Macromedia Director. Prerequisite: IS 222 and 243.

IS 491-494 Independent Study 1-3 cr.

Opportunity for the student to study specific topics of interest not covered in curriculum which would aid in overall content knowledge of business or help better prepare student for career. Must have approval of department. Prerequisite: junior or senior standing.

MATHEMATICS

MATHEMATICS MAJOR

39 Credits

The mathematics program provides students with a broad foundation in mathematical knowledge, applications, and aesthetics for the purpose of preparation for careers, graduate school, and personal enrichment.

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

Common Major Requirements (27 Credits):

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

I. Preprofessional Mathematics Emphasis (27 Credits):

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 (27 Credits):

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)

15 Credits

Requirements:

MA 110	Intermediate Algebra	3 cr.
MA 120	Pre-Calculus	3 cr.
MA 130	Elementary Number Theory	3 cr.
MA 131	Geometry, Probability and Statistics from an elementary point of view	3 cr.
MA 221	Statistics I	3 cr.
	OR	
MA 330	Geometry (Preferred)	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 131	MA 221
MA 110	MA 145	MA330
MA 120	MA 175	
MA 130		

BINARY PROGRAM IN ENGINEERING

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

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

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

COURSE OFFERINGS

MA 100 and 110 are developmental courses, do not count toward the 128 credit hours required for graduation, and do not fulfill the General Education Requirement. All courses beyond the developmental series count toward the 128 credit hours required for graduation and fulfill the General Education Requirement.

MA 100 Introductory Algebra 3 cr.

Sets, real numbers, basic algebraic operations and polynomial arithmetic, factoring, linear equations and inequalities, rectangular coordinate systems, solution of linear systems, algebraic fractions, exponents and radicals, solution of quadratic equations and applications. (Placement Test Required)

MA 110 Intermediate Algebra 3 cr.

Algebraic operations, solving equations and inequalities, lines, inequalities and their graphs, introduction to conic sections, introduction to functions, exponential and logarithmic functions, systems of equations, problem solving techniques and applications. Prerequisite: MA 100 or both of the following: one unit of high school algebra and one unit of high school geometry. (Placement Test Required)

MA 120 Precalculus Mathematics 3 cr.

Functions, exponential and logarithmic functions, trigonometric functions and their inverses, identities, equations and applications and analytic geometry. Prerequisite: MA 110 or equivalent. (Placement Test Required)

MA 130 Elementary Number Theory 3 cr.

General preparation in mathematics for elementary educators. Set theory, problem solving strategies, pattern recognition, numeration systems, number theory, properties of and operations with real numbers. Prerequisite: MA 110 or equivalent. (Placement Test Required)

MA 131 Geometry, Probability and Statistics from an Elementary Point of View 3 cr.

General preparation in mathematics for elementary educators. Geometry with emphasis on shapes and measurement, transformational geometry and symmetry, logic, counting methods, permutations and combinations, an introduction to probability and statistics. Prerequisite: MA 110 or equivalent. (Placement Test Required)

MA 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 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 350 Math History** 3 cr.
A study of algebra, number theory, irrational numbers, analytical geometry, the Calculus, non-Euclidean geometries and infinite sets from an historical perspective.

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:**

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

2 courses from the following:

SP 363, 364 Contemporary Hispanic Culture and Civilization I, II
 SP 385, 386 Hispanic Civilization I, II

1 course from the following:

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

1 course from the following:

SP 365 Spanish for Business
 SP 420 Introduction to Professional Translating
 SP 430 Practicum: Literary and Technical Translating
 SP 440 Commercial Translating
 1 course from the above literature offerings.

MULTI-AGE LICENSE IN SPANISH**(Gr. P-12)****45 Credits****Goal:**

To prepare effective teachers with strong proficiency skills, adequate to professional preparation, and positive attitudes toward their students and the subject area they will teach.

Requirements:

SP 201, 202	Intermediate Spanish I, II
SP 203, 204	Intermediate Expression I, II
SP 315, 316	Advanced Oral and Written Expression I, II
SP 363, 364	Contemporary Hispanic Culture and Civilization I, II
SP 385, 386	Hispanic Civilization I, II
ED 342	Integrated Teaching Methods P-12
ED 343	Field Experience for ED 342

Choose four from the following:

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

See **EDUCATION** for Professional Education Requirements.

SPANISH COURSE OFFERINGS**SP 101, 102 Basic Spanish I, II 4, 4 cr.**

Essentials of the language for understanding, speaking, reading, writing.

SP 191, 192, 193, 194 Selected Topics 1-3 cr.**SP 195, 295, 395, 495 Cooperative Education 1-6 cr.**

On-the-job experience using Spanish as a tool; hours and credits to be arranged with the department.

SP 201, 202 Intermediate Spanish I, II 3, 3 cr.

Oral expressions, short readings in literature, culture, and other areas of interest, grammar review, creative activities. Prerequisite: SP 102 or 2 years of high school or equivalent proficiency.

SP 203, 204 Intermediate Oral**Expression I, II****3, 3 cr.**

Practical active vocabulary building, oral expression areas of contemporary interests, use of authentic recordings.

Prerequisite: SP 201 or 3 years of high school Spanish or demonstrated proficiency.

SP 271, 371 Workshops**1-3 cr.****SP 315, 316 Advanced Oral and Written****Expression I, II****3, 3 cr.**

Intensive writing practice, finer points of syntax, and creative work. Grammar review as needed. Frequent discussion, vocabulary building, individual work in phonetics.

SP 321, 322 Readings in Modern Hispanic**Literature I, II****3, 3 cr.**

Representative works by contemporary Latin American writers, opportunity for creative imitation through written assignments.

SP 334 Latin American Literature**3 cr.**

Readings of the outstanding Latin American writers whose works have influenced the literary and philosophic thought of both hemispheres.

SP 363, 364 Contemporary Hispanic Culture and**Civilization I, II****3, 3 cr.**

Analysis of social and political systems in Latin America. Development, foreign department, basic industries, the role of international corporations, relations of dependence and alterations in daily life. One unit analyzes modern Spain, its political structures, lifestyles, etc. Course is taught in Spanish. Prerequisite: SP 202 or equivalent.

SP 365 Spanish for Business**3 cr.**

An introduction to Spanish business terminology, documents and procedures. Students analyze commercial documents and use Spanish in oral and written business communication. Prerequisite: SP 202 or the equivalent.

SP 367 The Spanish Classic Period**3 cr.**

Selected readings from El Cid to Calderon.

SP 385, 386 Hispanic Civilization I, II 3, 3 cr.
Spanish and Latin American life and culture from its earliest forms to the present. Course is taught in Spanish.

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

SP 420 Introduction to Professional Translating 3 cr.
General principles, procedures, theory, and tools for translating; some basic principles of linguistics. Practice in translating from Spanish to English.

SP 430 Practicum: Literary and Technical Translating 3 cr.
Practice in translating from Spanish to English and from English to Spanish. Approximately one quarter is devoted to literary texts and one quarter to technical or scientific topics, depending on the professional needs of the students enrolled.

SP 440 Commercial Translating 3 cr.
Practice in translating documents, papers, and letters used in international trade. Spanish to English and English to Spanish. Some computing skill is necessary.

SP 473, 474 Cervantes and the Masterpieces of Spanish Literature I, II 3, 3 cr.
Intensive study of the Quijote and the Novelas Ejemplares, as well as representative work of other Spanish literary masters.

SP 491, 492, 493, 494 Independent Study 1-3 cr.
An opportunity for qualified and capable students to work on special topics by independent reading, study, and research in Spanish. Hours and credits arranged by the department.

MUSIC

General Education Requirement in Fine Arts

This requirement is satisfied by completing any of the following music courses: MU 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.
A historical overview of the role and function of music in western civilization. Emphasis on listening. Field trips to hear live concerts are part of the course content. Ability to read music is not necessary for this course.

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

MU 195, 196 Independent Studies: Applied Music
Private lessons available in piano, voice, or instruments, for credit or non-credit. Credit amounts arranged and granted on the basis of an evaluated performance at the end of the semester. Other special projects in music may be arranged.

MU 211, 212 Music History I, II 3, 3 cr.
Survey of the development of western music from ancient to modern times, with emphasis on listening skills.

MU 213 Jazz Appreciation 3 cr.
A development and an understanding of jazz as a uniquely American art form through listening to recorded and live performances. Emphasis on aural perception.

MU 320 Music and Art: Historical Survey 3 cr.
A survey of music and visual art forms from the perspective of basic elements such as line, harmony, texture, timbre, and form. Includes the development of artistic styles in music and art through various historical periods. Attendance at live concerts and visits to the art museum are an integral part of the course.

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

MU 395, 396 Independent Study: Applied Music

PASTORAL THEOLOGY AND MINISTRY

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

Catholic School Teachers can apply these courses to the renewal of state teaching certificates. These courses may be taken by Catholic high school teachers seeking a teaching field in theology. Catechists and catechetical leaders can apply these courses to diocesan catechist certification on the basic or advanced levels. Please call the Center for more information: 216-373-5389.

Each semester one or more of the courses listed below are taught in Spanish in order to better assist students preparing for ministry in the Hispanic community.

The overall goal of the following programs is to provide students with a basic background in systematic theology, sacred scripture, and ministry skills that will prepare them for parish type ministries and other direct service ministries in the Catholic Christian tradition.

BASIC CERTIFICATE IN PASTORAL MINISTRY

This is a program designed for those who serve their parish as part-time or volunteer ministers. It provides a college level background in Catholic theology and pastoral skills.

Note: All of these courses can be applied to the Advanced Certificate in Pastoral Ministry. Each of these courses is a two (2) credit course.

General Admission Requirements:

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

Required Courses:

PM 104	Hebrew Scriptures
PM 105	Christian Scriptures
PM 235	Counseling Skills for Pastoral Ministers

PM 301	Sacraments in Christian Life
PM 321	Principles of Morality and Moral Response
PM 332	The Nature of the Church
PM 334	Nature, Sin, and Grace
PM 335	Theology and Spirituality for Ministry

ADVANCED CERTIFICATE IN PASTORAL MINISTRY

This program is for those pursuing a career in Pastoral Ministry. The Advanced Certificate in Pastoral Ministry from Notre Dame College also fulfills 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 2 credit course unless otherwise noted.

General Admission Requirements:

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

Required Courses:

Scripture

PM 104	Hebrew Scriptures
PM 105	Christian Scriptures
1 elective in Scripture	

Systematics

PM 221	Knowing Jesus Then and Now
PM 301	Sacraments in Christian Life
PM 311	Church History
PM 332	The Nature of the Church
PM 334	Nature, Sin, and Grace

Morality

PM 204	Introduction to Social Justice Ministry
PM 321	Principles of Morality and Moral Response

Pastoral/Ministerial Skills

PM 235	Counseling Skills for Pastoral Ministers
PM 240	Management Skills for Pastoral Ministers
PM 295	Cooperative Education for Pastoral Ministry
PM 335	Theology and Spirituality for Ministry (A required course for those not in the diocesan formation program, and an approved elective for those who are in the diocesan program).
PM 346	Canon Law for Ministry
PM 365	Applied Moral Theology

**Electives:
Scripture**

PM 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, pages 22, 23, for other requirements.

BACHELOR OF ARTS DEGREE WITH A MAJOR IN THEOLOGY

Advanced Certification courses may be applied to a BA degree with a Theology Major. See Theology, page 96, for more information.

COURSE OFFERINGS

PM 104 Introduction to the Hebrew Scriptures 2 cr.
Overviews the historical, literary and theological context out of which the scriptures developed. The basic skills needed to interpret the scriptures as well as major themes developed in their theology are covered.

PM 105 Introduction to the Christian Scriptures 2 cr.
Examines the context out of which the Christian scriptures developed, the coming of the Kingdom in the Person of Jesus Christ, and the literary history of the various books.

PM 191, 192, 193 Selected Topics

PM 204 Introduction to Social Justice Ministry 2 cr.
Gives a basic theological foundation of social justice ministry in scripture and the social teachings of the Church. Discusses the role of the Church in society as well as the prophetic and pastoral roles of the Christian minister in relating social justice issues to gospel values.

PM 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 strategic and financial planning, volunteer empowerment, office organization and time management are addressed.

PM 291, 292, 293 Selected Topics**PM 295 Cooperative Education for Pastoral Ministry****2 cr.****PM 301 Sacraments in Christian Life****2 cr.**

Explores the concept of sacramentality. Discusses the historical and theological development and liturgical traditions of each of the seven sacraments. Emphasis is placed on the preparation for and the liturgical celebration of each sacrament. Special attention is given to the celebration of the Eucharist and to the Rite of Christian Initiation.

PM 311 Church History**2 cr.**

Traces the major movements of the growth of the Church and its influence in the world from New Testament times through the Fathers, the Middle Ages, the Reformation, colonial expansion, and Vatican Council II. Some attention is given to the Church's approach to the modern world.

PM 317 Basic Beliefs and Tradition**1 cr.**

Presents an overview of the basic teachings of the Catholic Church with practical applications for catechists.

PM 318 Basic Beliefs and Faith Formation**2 cr.**

Presents an overview of the basic teachings of the Catholic church with special applications for catechists. Addresses the catechist's own spiritual formation and gives pertinent resources that support this ministry.

PM 319 Catechetical Methods**1 cr.**

Focuses on educational methods especially helpful for those teaching Catholic doctrine in Grades 1-8.

PM 321 Principles of Morality and Moral Response**2 cr.**

Introduces morality in the Catholic tradition including sources and purpose of moral norms, understanding of the human person as morally responsible, and the function of conscience. Practical applications of moral principles to current issues will be illustrated through case study and discussion.

PM 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
15 additional credits in upper biennium Philosophy courses which include PH 480.

COURSE OFFERINGS

PH 180 History of Western Philosophy 3 cr.
A study of the history of western philosophy which chronicles the major thinkers and their key thoughts. The history of philosophy is understood as an ongoing conversation which continues in our own day. The course sketches the main contours of the way in which the conversation has taken shape since its beginnings with the ancient Greeks.

PH 320 Philosophy of Person 3 cr.
A close look at human nature and personal identity. Questions like "Who am I, really?" and "How free am I?" will be explored, along with love and our relationship with the natural world. Study of both classical and contemporary authors. PH 180 recommended.

PH 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 480 Current Ethical Problems and Positions 3 cr.

A critical examination of the major approaches to ethics given to us by the history of philosophy. The contributions of Aristotle, Aquinas, Kant, and Mill are studied first from a theoretical perspective. These theories are then applied to a variety of ethical issues which face us today. The student is introduced to the world of both the theory and practice of ethics. PH 180 recommended. Junior status required.

PH 481, 482 Seminar 1-3 cr.

Research and reports on selected periods or areas of philosophy. Conferences as the instructor directs. Open to qualified students who have had introductory courses in philosophy. Hours and credit arranged by the instructor, with the approval of the division head.

PH 491, 492, 493, 494 Independent Study 1-3 cr.

An opportunity for qualified and capable students to do independent work in the field of philosophy. Topics, hours, and credits arranged by the instructor, with the approval of the division head.

PHYSICS

COURSE OFFERINGS

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

PS 150 Concepts in Physics 3 cr.

This course, intended for Middle Childhood Education students and non-science majors wishing to fulfill the science GER, will explore a wide variety of topics in physics, including the scientific method, linear and circular motion, Newton's laws of force, momentum, energy, electricity, and magnetism. Prerequisite: MA 110. Corequisite: PS 151.

PS 151 Concepts in Physics Laboratory 1 cr.
One three-hour laboratory period weekly.**PS 180 Basic Physics I** 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 corequisite: MA 175.

PS 201 College Physics I Laboratory 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 II Laboratory 1 cr.

One three-hour laboratory period weekly.

PS 220 Earth Science 3 cr.

Study of the structure of the earth, rocks and minerals, continents and ocean basins, weather and climate, and stars and planets.

PS 221 Earth Science Laboratory 1 cr.

One three-hour laboratory period weekly.

PS 360, 362 Physical Chemistry I, II 3, 3 cr.

An integrated classical and quantum approach to thermodynamics, statistical mechanics, dynamics, atomic and molecular structure. Prerequisites: PS 200, 202; MA 176.

PS 361, 363 Physical Chemistry Laboratory I, II 1, 1 cr.

One three-hour laboratory period weekly.

PS 391, 392 Special Topics 1-3 cr.**PS 491, 492 Independent Study** 1-3 cr.

An opportunity for students who meet the requirements to do independent studies.

PSYCHOLOGY

A student completing a major in psychology will be prepared for graduate level work in psychology, for further training and certification, and/or entry level positions 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
G PY 380	Cognitive Psychology
G PY 410	Biopsychology

4. Social/Organizational **

G PY 210	Social Psychology
PY 235	Sports Psychology
PY 240	Management and Organization
PY 260	Industrial/Organizational Psychology
PY 330	Health Psychology
PY 345	Organizational Behavior
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 fulfill requirement B).
2. Upper biennium special topics may include:
Psychology, Film, and Literature Behavior Genetics
Psychology of Individual Differences

G indicates recommended courses for graduate school in psychology

* currently the focus is from the classroom teacher's perspective

** an interdisciplinary emphasis (Psychology and Business Administration)

*** only by permission

PSYCHOLOGY MINOR**22 Credits****Requirements:****A. Psychology Core:**

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

B. Three courses (9 credits) from any three of the four different areas of concentration**COURSE OFFERINGS****PY 201 General Psychology 3 cr.**

An introduction to the science of human behavior and the principles, methods, and theories of modern psychology. Major topics include research design, development, learning, sensation, perception, thinking, memory, motivation, personality, psychopathology, therapies, 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 235 Sports Psychology 3 cr.

This course is an introduction to the psychological study of people and their behavior in sport environments. Emphasis will be on the mental skills associated with high-level performance in sport as well as in other areas of life. The course will address the question, "How can sports participation contribute to a person's overall psychological health and well-being?" Prerequisite: PY 201

PY 240 Management and Organization 3 cr.

See BU 240 for course description.

PY 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 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 307 Experimental Design 4 cr.

Delves into the exciting world of research. After learning basic research skills, the students design and conduct experiments, and then analyze the resulting data. The process may result in a publishable paper. Prerequisites: PY 201, MA/PY 221. *In the Weekend College format, this course is numbered PY 308 and PY 309. 2, 2 cr.*

- 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. 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 tests. Focuses on the areas of personality, career interests, achievement, and intelligence. Test construction, reliability, and validity will be addressed at length for all tests studied. Students will have hands on practice with each test. Prerequisites: PY 201, MA/PY 221.
- 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 psychology department 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 is 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 391, 392, 393, 394 Selected Topics 1-3 cr.

SO 410 Social Theory 3 cr.
Analysis of major historical and contemporary theories and their impact on the discipline of sociology.

SO 425 Conflict Management & Resolution 3 cr.
Discussion of sources and dynamics of conflict in interpersonal and group settings. Identification of conflict management strategies including mediation, and negotiation. Development of skills for conflict management and resolution.

SO 491, 492, 493, 494 Independent Study 1-3 cr.

THEATER

THEATER MINOR

21 Credits

Requirements:

TR 112	Oral Interpretation
TR 261	The Drama and Theater
TR 262	Modern Drama and Theater

One of the following:

EN 461	Shakespeare's Comedies
EN 462	Shakespeare's Histories and Tragedies

Two of the following:

TR 309	Acting and Directing
TR 313	Event/Play Production Apprenticeship
TR 374	Presentation Techniques
TR 395/495	Cooperative Education (3 cr. max.)

One of the following:

CA 201	Interpersonal Communication
CA 305	Film Studies
CA 323	Writing for the Non-Print Media
CA 324	Writing for Publication
CA 403	Public Relations
EN 318	Creative Writing
TR 381	Women Playwrights

COURSE OFFERINGS

* A college-level composition course is a prerequisite to theater literature courses.

TR 112 Oral Interpretation 3 cr.

Also listed as CA 112

Explores basic theory and practice in the art of communicating literature: prose, poetry, and drama. Selection, analysis, and performance are the primary areas of focus.

TR 261 The Drama and Theater 3 cr.

Also listed as EN 261, CA 261

Study of dramatic literature, acting, stage design, production, and theatrical styles and trends from the classical age of Greece to the middle of the nineteenth century. Recommended preparation for TR 262.*

TR 262 Modern Drama and Theater 3 cr.

Also listed as EN 262, CA 262

Study of dramatic literature, acting, stage design, production, and theatrical styles and trends from Ibsen to the present. Recommended preparation: TR 261.*

TR 309 Acting and Directing 3 cr.

Also listed as CA 309

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

TR 313 Event/Play Production Apprenticeship 3 cr.

Also listed as CA 313

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

TR 374 Presentation Techniques 3 cr.

Also listed as CA 374

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

TR 381 Women Playwrights 3 cr.

Also listed as EN 381

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

TR 461 Shakespeare's Comedies 3 cr.

Also listed as EN 461

Reading and analysis of Shakespeare's comedies; study of comedy techniques and poetic development. Junior-senior standing required.*

TR 462 Shakespeare's Histories and Tragedies 3 cr.

Also listed as EN 462

Reading and analysis of Shakespeare's histories and tragedies; study of Shakespeare's development as tragic dramatist and poet. Junior-senior standing required.*

TR 295, 395, 495 Cooperative Education 3 cr.

THEOLOGY

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

Students are encouraged to take as many theology courses as they can. At least one course in Scripture is required to broaden the student's exposure to the basic text of the Judaeo-Christian tradition, as well as to learn how to read any sacred text in its historical and literary context. The one required course, TH 450 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 prepare for teaching religion on the elementary or secondary level. The Center for Pastoral Theology and Ministry prepares persons for ministry in the Catholic Church. Ministry and theology courses and field experience provide the academic qualifications for basic and for advanced certification in pastoral ministry and for the teaching of religion by the Diocese of Cleveland, and for an Associate of Arts degree.

Pastoral Ministry courses with theology content fulfill theology requirements.

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

1. Understand and appreciate the renewal prompted by Vatican Council II in the areas of scriptural interpretation, doctrine, liturgy and moral theology
2. Be an articulate spokesperson for critical thought in theological matters and for spiritual growth
3. Live out a commitment to respect the earth and all peoples, to care for those in need, and to fulfill his/her mission in this world.

THEOLOGY MAJOR

36 Credits

Requirements:

TH 304	Christian Worship
TH 321	Old Testament Theology
TH 322	New Testament Theology
TH 330	Contemporary Church
TH 380	History of Christianity
TH 400	Christian Spirituality for Today
TH 410	Christian Moral Living
TH 420	The Jesus of History, The Christ of Faith
TH 495	Cooperative Education

Plus additional credits in Upper Biennium Theology to total 36. TH 450 is included in the 36 credits.

Courses taken through the Pastoral Ministry program, if in the content areas above, fulfill the requirements for a major in Theology. Pastoral Ministry 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

Plus additional credits in Upper Biennium Theology to total 18. TH 450 is included in the 18 credits.

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

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

MINOR IN BIBLICAL STUDIES**18 Credits****Requirements:**

TH 150 Introduction to Theology
 TH 321 Old Testament Theology
 TH 322 New Testament Theology
*Plus additional credits in upper biennium Scripture courses to total 18 credits. TH 450 is **not** included in these 18 credits.*

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

MINOR IN YOUTH MINISTRY**26 Credits**

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

Requirements:

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

**THEOLOGY FOR TEACHING RELIGION
IN GRADES 7-12****27 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 History of Christianity
 TH 400 Christian Spirituality for Today
 TH 410 Christian Moral Living
 TH 420 The Jesus of History, The Christ of Faith

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

Students should inquire regarding specific diocesan requirements for teaching religion. The Diocese of Cleveland, for example, requires PM 340 Adolescent Catechesis for provisional certification as well as a theology major.

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 students' 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 325 An Arts Approach to the Bible 3 cr.

An exploration of Hebrew and Christian scriptural themes, including creation, suffering and conversion, from two perspectives: literary forms in the Bible and also imaginative expressions in music, visual art, literature and film. This course aims to open up the meaning of biblical stories and to encourage an experience of the Sacred through the arts. No previous background in Scripture or the arts is necessary.

TH 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 Deuteronomic 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: Judaeo Wisdom, Human
and Divine 3 cr.**

A study of the Wisdom Movement in Israel, as seen in the books of Job, Proverbs, Ecclesiastes, Sirach, Song of Songs, the Wisdom of Solomon and the Wisdom psalms. The focus is on the relevance of these texts to Christian living today. TH 150 recommended.

TH 374 The Prophets: Spokespersons for God 3 cr.

A study of biblical prophecy from its origins to Malachi with special emphasis on its relation to established religion and government. Attention is given to an in-depth study of the literary forms and themes of the major prophets Isaiah, Jeremiah, and Ezekiel and selected minor voices. TH 150 recommended.

TH 380 History of Christianity 3 cr.

A survey of the history of Christianity, its cultural heritage and its rich legacy to the arts. 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 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, 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. Junior status required.

TH 481, 482 Seminar 1-3 cr.**TH 491, 493, 494 Independent Study** 1-3 cr.**TH 295, 495 Cooperative Education** 1-6 cr.

WOMEN'S STUDIES

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

The goals of Women's Studies at Notre Dame College are to 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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index

A

Academic Awards, 30
 Academic Calendar, 2
 Academic Probation, 28
 Academic Policies and Procedures, 19
 Accounting Major, 43
 Accreditation, Inside Front Cover
 Adjunct Faculty, 105
 Administration (Executive Officers), 103
 Administration Building, 5
 Admission Requirements, 7
 Admission Status, 7
 Admission Denied, 7
 Full Admission, 7-10
 Provisional Admission, 8-9
 Adult Students, 8-9
 Advanced Certificate in
 Pastoral Ministry, 86
 Affirmative Action, Inside Front Cover
 Alternative Methods of Learning
 Assessment, 24
 College Level Examination Program
 (CLEP), 25
 Experiential Learning Credits, 25
 Proficiency Examinations, 25
 Appeals, 14
 Areas of Concentration for Middle
 Childhood Education (see Teacher
 Licensure Programs), 24
 Art, 32-37
 Art Major, 32
 Art Minor, 34
 Art History Minor, 34
 Course Offerings, 35
 Fine Arts Minor, 34
 Graphic Communication Major, 32
 Graphic Communication Minor, 34
 Graphic Design Major, 33
 Multi-Age License in Visual Arts
 (Gr. P-12), 33
 Multimedia Minor, 34
 Associate in Arts degree, 23
 Athletics, Intercollegiate, 18
 Baseball
 Basketball
 Cross Country
 Fastpitch

Golf

Lacrosse

Soccer

Tennis

Track and Field

Volleyball

Attendance at Classes, 28

Auditor, 26

Awards (see Honors and Awards), 29

B

Bachelor of Arts degree, 23
 Bachelor of Science degree, 23
 Basic Certificate in Pastoral Ministry, 86
 Basketball (see Intercollegiate Athletics), 18
 Biblical Studies Minor, 97
 Binary Program in Engineering, 52, 81
 Biochemistry Emphasis, Chemistry
 Major, 50
 Biology, 37-42
 Area of Concentration in Science for
 Middle Childhood License, 39
 Bachelor of Arts program, 38
 Bachelor of Science program, 37
 Biology for Grades 7-12
 Adolescent to Young Adult
 License in Life Sciences, 39
 Dual Field Adolescent to Young
 Adult License in Life Sciences and
 Chemistry, 39
 Biology Major, Preprofessional
 (see Bachelor of Arts program), 37-38
 Biology Minor, 38
 Course Offerings, 40-42
 Summer Laboratory Research
 Internships, 38
 Board of Directors, 101-103
 Business Administration, 42-50
 Accounting Major, 43
 Accounting Minor, 45
 Associate in Arts degree, 47
 Certificate Programs, 46
 Core Courses, 42
 Course Offerings, 47
 CPA Certification, 43
 Financial Services Management
 Minor, 46

Human Resources Development
 Major, 43

Information Systems Major, 44

Information Systems Minor, 46

International Business Minor, 46

Management Major, 44

Management Minor, 46

Marketing Major, 44

Marketing Minor, 46

Multimedia Minor, 46

Ohio CPA Certificate, 43

Professional Certifications in
 Accounting, 43

Sports/Recreation Management, 45

C

Calendar, 2
 Campus, 5
 Administration Building, 5
 Clara Fritzsche Library, 6
 Dwyer Learning Center, 5
 Physical Education Complex (see
 Keller Center), 6
 Residence Halls, 15
 Campus Activities, 14
 Campus Ministry, 18
 Campus Visit, 7
 Candidates for Admission
 International Students, 9
 Weekend College Students, 9
 Traditional Students, 7
 Transfer Students, 8
 Career Development, 14
 Catalog, 19
 Catholic Identity, 4
 Center for Professional Development, 25-26
 Certificate Programs, 25
 Continuing Education, 25-26
 Senior Citizens, 26
 Certificate Programs, 24

- CEUs, 25
- Chemistry, 50-55
 Area of Concentration in Science for Middle Childhood License, 52
 Bachelor of Arts Program, 51
 Bachelor of Science Program, 50
 Binary Program in Engineering, 52
 Biochemistry Emphasis, 50
 Chemistry Core, 50
 Chemistry for Grades 7-12
 Dual Field Adolescent to Young Adult License in Life Sciences and Chemistry, 52
 Chemistry/Business Emphasis, 51
 Management, 51
 Marketing, 51
 Chemistry Minor, 51
 Comprehensive Chemistry Emphasis (ACS), 50
 Course Offerings, 53-55
 Preprofessional Emphasis, 51
 Summer Laboratory Research Internships, 52
- City of Cleveland (see The Campus), 5
- Clara Fritzsche Library, 6
- Classification of Students, 26
 Auditor, 26
 Degree-seeking Student, 26
 Full-time Student, 26
 Part-time Student, 26
- CLEP, 25
- Clubs and Organizations, 17
- Coaching Minor, 71
- Communication, 55
 Communication Major, 55
 Communication Minor, 55
 Course Offerings, 56
 Graphic Communication Minor, 56
 Public Relations Major, 55
- Comprehensive Chemistry Emphasis (ACS), 50
- Confirmation and Room Deposit, 12
- Continuing Education Units (CEUs), 25-26
- Cooperative Education, 15
- Counseling, 15
- CPA Certification (State of Ohio), 43
- Cross Registration, 25
- D**
- Dean's List, 29
- Degree Programs, 23-24
 Associate in Arts, 23
 Bachelor of Arts, 23
 Bachelor of Science, 23
- Degree Requirements, 22
- Degree-seeking Student, 26
- Deposits
 Confirmation Deposit, 12
 Room Deposit, 12
- Disabilities, Students with, 26
- Distinguished Faculty Award, 31
- Double Major, 23
- Dwyer Learning Center, 5
- E**
- Early Childhood Education, 60
- Economics, 58
 Course Offerings, 58
 Economics Minor, 58
- Education, 59-65
 Course Offerings, 62-65
 Evening Licensure Program, 62
 Field-Based Experience, 62
 Licensure Areas, 60
 Licensure for Adolescent to Young Adult Education (Gr. 7-12), 61
 Licensure for Early Childhood Education (Pre-K - Gr. 3), 60
 Requirements, 60
 Licensure for Middle Childhood Education (Gr. 4-9), 61
 Requirements, 61
 Licensure for Multi-Age Education (Pre-K - Gr. 12), 61
 Requirements, 61
 Middle Childhood Generalist (Gr. 4-6), 61
 Mild Moderate Intervention Specialist (Pre-K - Gr. 12), 62
 Requirements, 62
 Teacher Education, 59
- Employer Reimbursement, 12
- Endowed Awards, 11
- Engineering (see Binary Program in Engineering), 52, 81
- English, 65-70
 Adolescent to Young Adult License (Gr. 7-12) in Integrated Language Arts, 66
 Area of Concentration in Reading and Language Arts for Middle Childhood Education License (Gr. 4-9), 67
 Course Offerings, 68-70
 English Major, 65
 English with a Pre-Law Concentration, 67
 English Minor, 66
 Writing Minor, 66
- Enrichment Courses, 26
- Evening Licensure Program (Education), 62
- Environmental Science, 70
 Environmental Science Major, 70
 Course Offerings, 70
- Executive Officers (See Administration), 103
- Experiential Learning Credits, 25
- F**
- Faculty, 103
 Adjunct Faculty, 105
 Emeriti, 105
- Federal Student Financial Assistance, 11
- Field-Based Experience (Education), 62
- Financial Assistance for Students, 11-14
 Employer Reimbursement, 12
 Endowed Awards, 11-12
 Federal Student Financial Assistance, 11
 Private Student Financial Assistance, 11
 State Student Financial Assistance, 11
- Financial Services Management Minor, 46
- First-Year Seminar (FYI), 16
- Fitness Center (see Keller Center), 6
- Full-time Student, 26
- FYI, 16
- G**
- General Degree Requirements, 22
- General Education Requirements (GERs), 19-22
- Geography Course Offerings (see History/Political Science), 78
- Grading System, 27
- Graduate Programs, 24
- Graduation with Honors, 29
- Graphic Communication Major, 32
- Graphic Communication Minor, 34
- Gymnasium (see Keller Center), 6

H

Health Education/Physical Education, 71
 Coaching Minor, 71
 Course Offerings, 71-72
 Sports Recreation/Management Major, 71
 Health Services, 15
 History/Political Science, 72-78
 Adolescent to Young Adult License
 (Gr. 7-12) and Major in Integrated
 Social Studies, 74
 Area of Concentration in Social
 Studies for Middle Childhood
 License (Gr. 4-9), 75
 Geography Course Offerings, 78
 History Course Offerings, 75
 History Major, 72
 History Minor, 73
 Integrated Social Studies Major, 74
 Political Science Course Offerings, 77
 Political Science Major, 73
 Political Science Minor, 73
 Public Administration Interdisciplinary
 Major, 74
 Financial Resource Management
 concentration, 74
 Human Resource Management
 concentration, 74
 Political Communication
 concentration, 74
 Honors and Awards, 29
 Academic Awards, 30
 Dean's List, 29
 Distinguished Faculty Award, 31
 Graduation with Honors, 29
 Kappa Gamma Pi, 29
 Outstanding Teaching Award, 31
 President's List, 29
 St. Catherine of Alexandria Medal, 29
 Student Development Leadership
 Awards, 30
 Honors Convocation (see Traditions), 18
 Human Resources Development
 Major, 43

I

Independent Study, 25
 Individually Designed Majors, 23
 Information Systems, 78
 Course Offerings, 78
 Information Systems Major, 44
 Inquires, 3

Intercollegiate Athletics, 18
 Baseball
 Basketball
 Cross Country
 Fastpitch
 Golf
 Lacrosse
 Soccer
 Tennis
 Track and Field
 Volleyball
 Interdisciplinary Majors, 23
 International Business Minor, 46
 International Educational Travel, 17
 International Students, 9
 International Student Services, 17
 Intramurals and Recreation, 18,

K

Kappa Gamma Pi, 29
 Keller Center, 6

L

Laboratory Research, 25, 38, 52
 Learning Center, 16
 Liberal Arts Education, 19
 General Education Requirements
 (GERs), 19-21
 Associate in Arts degree, 23
 Bachelor of Arts degree, 23
 Bachelor of Science degree, 23
 Library, 6
 Lower Biennium Courses (see Catalog), 19

M

Major Fields of Study, 22
 Management Major, 44
 Management Minor, 46
 Marketing Major, 44
 Marketing Minor, 46
 Mathematics Placement Test, 81
 Mathematics, 80-83
 Area of Concentration in Mathematics
 for Adolescent to Young Adult License
 (Gr. 7-12), 80
 Area of Concentration in Mathematics
 for Middle Childhood Education
 License, 80

Binary Program in Engineering, 81
 Course Offerings, 81-83
 Mathematics Placement Test, 81
 Mathematics Major, 80
 Preprofessional Emphasis, 80
 Statistics Emphasis, 80
 Mathematics Minor, 80
 Mideast America Conference (see
 Intercollegiate Athletics), 18
 Minor Fields of Study, 23
 Mission Statement, 4
 Modern Languages, 83-85
 Multi-Age License in Spanish
 (Gr. P-12), 84
 Spanish Course Offerings, 84-85
 Spanish Minor, 83
 Music, 85
 Course Offerings, 85

N

NAIA (see Intercollegiate Athletics), 18

O

Ohio CPA Certificate, 43
 Ohio LINK (see Clara Fritzsche Library), 6
 Orientation, 16
 Outstanding Teaching Award, 31

P

Part-time Student, 26
 Pass/Fail Option, 28
 Pastoral Theology and Ministry, 86-89
 Advanced Certificate, 86
 Associate in Arts degree, 87
 Basic Certificate, 86
 Bachelor of Arts degree, 87
 Course Offerings, 87-89
 Payment Policy, 12
 Philosophy, 89-90
 Course Offerings, 89-90
 Philosophy Minor, 89
 Physical Education, 71
 Coaching Minor, 71
 Physical Education Complex (see Keller
 Center), 6
 Physics, 90
 Course Offerings, 90-91
 Plagiarism, 26

Political Science, 72-78
 Course Offerings, 77-78
 Political Science Major, 73
 Political Science Minor, 73
 Public Administration Major, 74
 Financial Resource Management concentration, 74
 Human Resource Management concentration, 74
 Political Communication concentration, 74
 President's List, 29
 Private Student Financial Assistance, 11
 Professional Certifications in Accounting, 43
 Proficiency Examinations, 25
 Programs of Study, 23
 Certificate Programs, 24
 Degree Programs, 23
 Teacher Licensure Programs, 24
 Provisional Admission, 8-9
 Psychology, 91
 Course Offerings, 92-93
 Psychology Major, 91
 Psychology Minor, 92
 Public Administration Interdisciplinary Major, 74
 Financial Resource Management concentration, 74
 Human Resource Management concentration, 74
 Political Communication concentration, 74

R

Readmission, 10
 Refund Policy, 12
 Federal Refund Policy, 13
 Religion (see Theology), 95
 Research (Laboratory), 25, 38, 52
 Residence Halls, 15
 Residence Life, 15
 Residence Association Board, 16
 Resident Assistants, 16
 Room Deposit, 12

S

St. Catherine of Alexandria Medal, 29
 Senior Citizens, 26
 Soccer (see Intercollegiate Athletics), 18
 Sociology, 94
 Course Offerings, 94
 Sociology Minor, 94
 Sources of Financial Assistance, 11
 Spanish (see Modern Languages), 83
 Spanish Minor, 83
 Sports/Recreation Management, 45
 Standard for Completion, 27
 State Student Financial Assistance, 11
 Statements of Purpose, 4
 Student Development Leadership Awards, 30
 Student Disability Services, 16
 Students with Disabilities, 26
 Studio Art Major, 32
 Summer Laboratory Research Internships, 38
 Swimming Pool (see Keller Center), 6

T

Teacher Licensure Programs, 24
 (also see Education), 59-62
 Adolescent to Young Adult Education (Gr. 7-12), 61
 Early Childhood Education (Pre-K - Gr. 3), 60
 Middle Childhood Education (Gr. 4-9), 61
 Middle Childhood Generalist (Gr. 4-6), 61
 Multi-Age Education (Pre-K - Gr. 12), 61
 Tennis (see Intercollegiate Athletics), 18
 Theater, 94
 Course Offerings, 95
 Theater Minor, 94
 Theology, 95-99
 Biblical Studies Minor, 97
 Course Offerings, 97-99
 Theology Certificate for Teaching Religion for Grades 7-12, 97
 Theology Major, 96
 Theology Minor, 96
 Time Limit (see Catalog), 19
 Traditions, 18

Transcripts of Record, 29
 Transfer Credits, 27
 Transfer Students, 8, 27
 Travel
 International Educational Travel, 18

U

Upper Biennium Courses (see Catalog), 19
 Undergraduate Student Government, 17

V

Volleyball (see Intercollegiate Athletics), 18

W

Weekend College Students, 9
 Who's Who, 17, 29
 Withdrawal
 from Courses, 28
 from Notre Dame College (see Refunds/Tuition), 12-13
 Women's Studies, 100
 Course Offering, 100
 Women's Studies Minor, 100
 Writing Competency Requirement, 22
 Writing Minor, 66

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