

# BARRY UNIVERSITY

Miami Shores, Florida

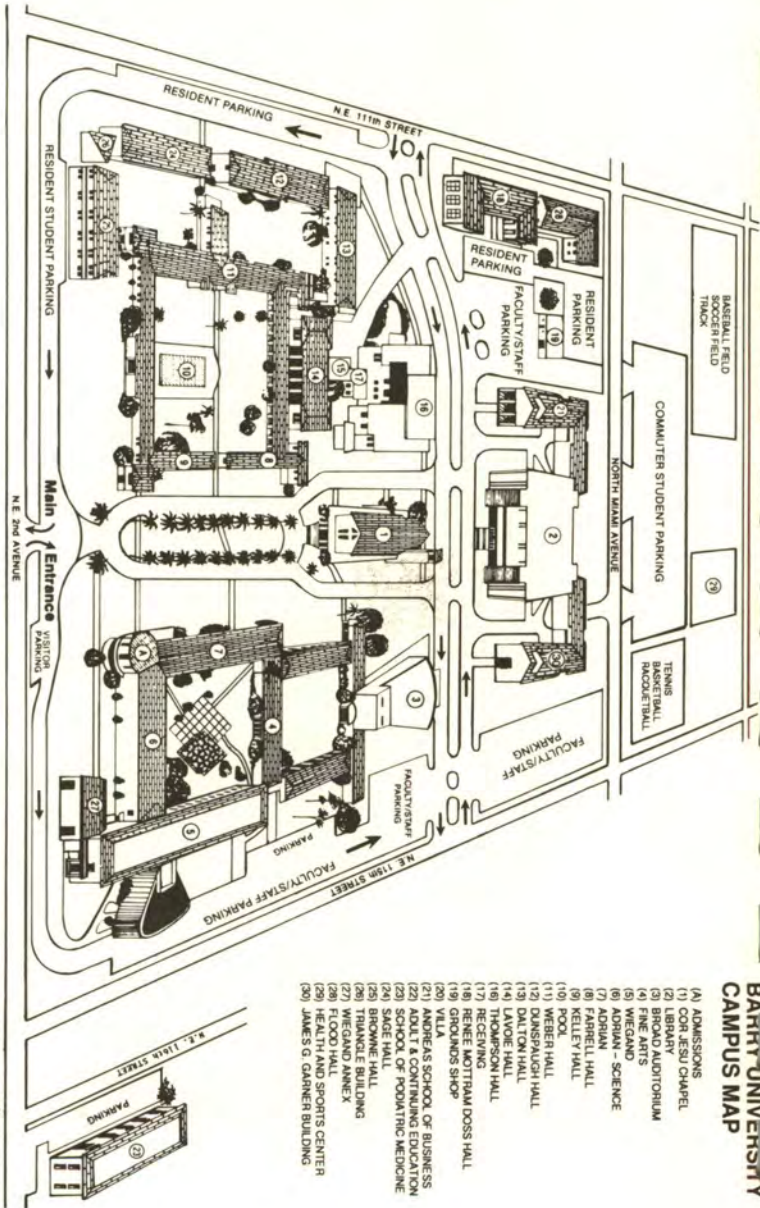


1990-1991

Florida's Catholic International University

# BAHRY UNIVERSITY CAMPUS MAP

- (A) ADMISSIONS
- (1) COR. JESU CHAPEL
- (2) LIBRARY AUDITORIUM
- (3) LIBRARY
- (4) FINE ARTS
- (5) WIEGAND
- (6) ADRIAN - SCIENCE
- (7) ADRIAN
- (8) PARRELL HALL
- (9) FLOOD HALL
- (10) POOL
- (11) WEBER HALL
- (12) DUNSPALGH HALL
- (13) DALTON HALL
- (14) LARDE HALL
- (15) RECEPTION
- (16) REINE MOTTAM DOSS HALL
- (18) GROUNDS SHOP
- (20) VILLA
- (21) ANDREAS SCHOOL OF BUSINESS
- (22) ADOLPH & CONRADING EDUCATION
- (23) ADOLPH - FOOTBALL MEDICINE
- (24) SAGE HALL
- (25) BROWNE HALL
- (26) TRIANGLE BUILDING
- (27) WIEGAND ANNEX
- (28) FLOOD HALL SPORTS CENTER
- (29) FLOOD HALL
- (30) JAMES G. GARNER BUILDING



FACULTY/STAFF PARKING (F/S DECAL)  
 RESIDENT STUDENT PARKING (R/S DECAL)  
 COMMUTER STUDENT PARKING (C/S DECAL)  
 ← TRAFFIC FLOW





# BARRY

UNIVERSITY

Miami Shores, Florida



## 1990-91

### Undergraduate Catalog

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Barry University accepts all qualified candidates for admission without regard to race, sex, religion, creed, color, national or ethnic origin, age or physical handicap.

## ACCREDITATION

Barry University is accredited by the Southern Association of Colleges and Schools. The School of Nursing is accredited by the National League for Nursing and is approved by the Florida Board of Nursing. The School of Education is approved by the Department of Education of the State of Florida as a standard teacher training program, and because of Florida's reciprocal certification agreement, is in a position to graduate students eligible for teacher certification in most states. The School of Social Work's MSW program is accredited by the Council on Social Work Education. The School of Podiatric Medicine is accredited by the Council on Podiatric Medical Education.

## NOTICES

Barry University does not discriminate on the basis of race, religion, sex, national or ethnic origin, or physical limitation. This includes policies and procedures related to membership on the Board of Trustees, the educational program, employment and personnel practices, admissions, scholarships/grants/loans, and participation in athletic, and other student activities. This institution is authorized to enroll non-immigrant alien students.

While this Catalog is a description of the undergraduate academic programs and regulations as of the date of publication, it is for information only and its provisions do not constitute an offer for a contract which may be accepted by students through enrollment at the University. The University reserves the right to change any provisions, requirements, or fees at any time during the student's period of study. The University further reserves the right to dismiss a student from the University for cause at any time. It also reserves the right to impose probation or suspension on any student whose conduct or achievement is unsatisfactory. When a student is dismissed or suspended for cause, there will be no refund of tuition or fees paid. Neither will there be any refunds in the event the operations of the University are temporarily suspended as a result of any act of God, strike, riot, disruption, or any other reason beyond its control.

The information in this Catalog supersedes all previous regulations, including tuition and fees previously published.

Inquiries, applications, and credentials should be addressed to:

Office of Admissions  
Barry University  
11300 NE 2nd Avenue  
Miami Shores, Florida 33161  
(305) 899-3000 Local  
Undergraduate Admissions (305) 899-3110  
Graduate Admissions (305) 899-3120  
(800) 551-0586 In State  
(800) 621-3388 Out of State  
Fax: (305) 899-3104  
School of Adult and Continuing Education  
(305) 899-3300 • (800) 842-1000



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# Academic Calendar 1990-91

## **Fall 1990**

Assembly	Tuesday, August 21
Classes Begin	Tuesday, August 28
Labor Day Holiday	Monday, September 3
Fall Holiday	Friday, October 19
Thanksgiving Holiday	Thursday-Sunday, November 22-25
Classes End	Friday, December 7
Final Exams	Monday-Friday, December 10-14

## **Spring 1991**

Assembly	Friday, January 11
Classes Begin	Tuesday, January 15
Spring Break	Saturday-Sunday, March 2-10
Easter Holiday	Thursday-Sunday, March 28-31
Classes End	Wednesday, May 1
Study Day	Thursday, May 2
Final Exams	Friday-Thursday, May 3-9
Commencement	Sunday, May 10

## **Summer School 1991**

Summer I	Tuesday May 14 - Friday June 21
Summer II	Monday June 24 - Friday August 2

## **School of Adult and Continuing Education**

Fall Term 1990	Oct. 8 - Dec. 15
Winter Term 1991	Jan. 7 - Mar. 16
Spring Term 1991	Apr. 8 - June 15
Summer Term 1991	July 8 - Sept. 14



# The First Fifty Years... 1940-1990

## THE MISSION CONTINUES

### NATURE

Barry University is an independent, coeducational Catholic institution of higher education which fosters academic distinction in the liberal arts and professional studies within the Judeo-Christian and Dominican tradition.

Founded in 1940, the University is sponsored by the Dominican Sisters of Adrian, Michigan, and is governed by an independent, self-perpetuating Board of Trustees.

### ENVIRONMENT

Barry University is a comprehensive university located in Miami Shores, with programs throughout South Florida. We seek to attract a diverse student body, including traditional and non-traditional students, from a variety of geographic, ethnic, religious, and socioeconomic backgrounds. We seek to recruit and retain faculty members who are dedicated to teaching and advising; to the search for and dissemination of truth through scholarship, research, and creative activities; and to service both to the University and to the larger community. We seek to maintain a staff that supports institutional needs in order to enhance the quality of university life. We seek to provide a learning environment which challenges students to accept intellectual, personal, ethical, spiritual, and social responsibilities.

### PURPOSE

The general purpose of Barry University, as stated in the Charter, is to offer quality education, to assure a religious dimension, and to provide community service and presence within a more caring environment.

## GOALS

### Barry University Strives

- to help its students to understand that God is experienced and encourage them to seek a fitting response to the presence of God in their lives.
- to afford the opportunity to examine the fundamental questions of human experience and the response to these questions proposed, in the liberal arts tradition, by theology, philosophy, the humanities, the natural sciences, and the social sciences.
- to provide programs in the liberal arts and professional studies at the undergraduate and graduate levels, giving students a basis for continued personal and professional development.
- to contribute to international understanding, world peace, and community self-awareness by providing an international dimension to its student body and educational curricula.
- to demonstrate concern for the individual in an atmosphere in which students, conscious of their own dignity as persons, become aware of the attendant responsibility toward other persons and toward the environment.
- to encourage its students to assume community leadership in religious, social, economic, and political affairs as a means of effecting needed social change.



# General Information

## HISTORY

Originally conceptualized by the Most Reverend Patrick Barry, Bishop of St. Augustine, and Reverend Mother Mary Gerald Barry, Prioress General of the Dominican Sisters of Adrian, Michigan, plans for Barry College received active support from Reverend William Barry, Pastor of St. Patrick's Church of Miami Beach, and John Thompson, Mayor of Miami Shores, Florida. In June 1940, a forty-acre tract of tropical vegetation located in residential Miami Shores, was transformed into the campus of Barry College. By action of the Board of Trustees, the college became Barry University on November 13, 1981. Today's University community is comprised of approximately 6,000 students, served by well over 500 administrators, faculty members and support staff representing diverse religious, cultural, and ethnic backgrounds. Barry is coeducational and fully accredited.

Since Barry first opened its doors in 1940, the faculty and administration have combined efforts to develop high quality academic programs so that needs of both the students and the local community would be served. Examples of this development include the inauguration and accreditation of such programs as Nursing, Teacher Education, Medical Technology, and Social Work. Needs of the local community led Barry to begin graduate programs for men and women in 1954, a Continuing Education Program in 1974, a School of Business in 1976, a Division of Biological and Biomedical Sciences in 1983, and a School of Podiatric Medicine in the Fall of 1985.

Barry University has had five Adrian Dominican Sisters serve as president since its inception: Mother Gerald Barry, 1940-1961; Mother Genevieve Weber, 1962-63; Sister M. Dorothy Browne, 1963-1974; Sister M. Trinita Flood, 1974-1981; and Sister Jeanne O'Laughlin, 1981 to the present.

Continued development and expansion of the Barry community are promoted to keep pace with the growth and excellence of the educational programs and to meet the needs of the ever-increasing student population. The physical plant includes 26 buildings, spread over the University's 90-acre campus and adjacent areas. The tropical beauty of the campus, its excellent edu-

cational facilities, and the ideal south Florida climate combine to create an atmosphere conducive to learning and to continued personal development.

### **UNIVERSITY LIFE**

The measure of a special university is more than the size of its student body, its faculty, its campus, or its longevity.

Although Barry University is relatively small and young, it is emerging as a truly special institution of higher education.

Barry's mission transcends the statistics by which many universities measure themselves. As a Catholic institution, it goes beyond the traditional emphasis on academic excellence to embody a human quality, with personal attention to a student's social, moral, physical, emotional and religious growth.

Above all, the purposely intimate scale of the campus and student body, the careful selection of faculty and staff, and the Judeo-Christian religious dimension combine to create a caring environment.

### **BUILDINGS & FACILITIES**

**ADRIAN HALL** — Originally named Angelicus, Adrian Hall houses classrooms, science labs, the Administrative Data Center, and the Offices of Admissions, Controller, Financial Aid, Human Resources, Purchasing and Registrar. It was constructed in 1940.

**BROWNE HALL** — Built in 1985 as East Hall, Browne is located on the southeast corner of the campus. It houses 90 students in double air-conditioned suites. Browne Hall was named after Sr. M. Dorothy Browne, Barry's third President.

**COR JESU CHAPEL** — Built in 1940 through a donation from Margaret Brady Farrell, the Cor Jesu Chapel is the center of many activities of the campus ministry as well as the office of the Director of Religious Affairs. Masses are celebrated here on a daily basis.

**DALTON-DUNSPAUGH HOUSE** — Originally known respectively as Regina Caeli and Regina Mundi, Dalton-Dunspaugh was built through the Dunspaugh Foundation in 1962. It serves as a female residence hall, housing 144 women in double air-conditioned rooms.

**D. INEZ ANDREAS SCHOOL OF BUSINESS BUILDING** — Constructed in 1984 and named in honor of Barry's Chairman of the Board of Trustees, the D. Inez Andreas Building houses the School of Business. It contains ten traditional classrooms, two of which have been specifically designed to be used for accounting classes, two large executive training classrooms, thirty-eight faculty offices and the administrative offices of the School.

**FARRELL HOUSE** — Farrell House, dedicated to Margaret Brady Farrell in recognition of her generous contributions to Barry University, was built in 1940. Farrell, originally named Maris Stella, houses faculty offices for the Social Science Department and administrative offices for the School of Arts and Sciences.



**FLOOD HALL** — Built in 1987 as West Hall, Flood Hall is located on the southwest corner of the campus. It houses 96 students in double air-conditioned suites. Flood Hall was named after Sr. Trinita Flood, fourth president of Barry.

**GARNER BUILDING** — Funded through a grant from the Federal Aviation Administration, the Garner Building was opened in the Fall of 1989. Designed as a "high-tech" facility, this building houses the Academic Computing Center, the School of Education, the Department of Communication, and the Department of Mathematics and Computer Science.

**FINE ARTS QUADRANGLE** — The Fine Arts Quadrangle contains art and music studios, lecture rooms, theater dressing rooms, an outdoor stage, and the Shepherd & Ruth K. Broad Performing Arts Center, a 1,000 seat capacity auditorium. The departmental Office of Fine Arts is located here. Adjacent to the Broad Center is the Pelican Theatre, a 74-seat facility which offers an intimate theatre experience.

**FRANK J. ROONEY SCHOOL OF ADULT AND CONTINUING EDUCATION** — Acquired in 1983 and named in honor of a long-time friend of Barry University, the Frank J. Rooney School of Adult and Continuing Education houses departmental offices and a student lounge for adult students.

**INTERCOLLEGIATE ATHLETIC FACILITIES** — The intercollegiate sports complex includes baseball, soccer, softball, track and tennis facilities. Our Health and Sports Center, to be open in October, accommodates basketball, volleyball, a weight training room, an athletic training room complete with modalities and hydrotherapy, locker rooms for all sports, and administrative offices.

**KELLEY HOUSE** — Originally named Rosa Mystica, it is dedicated to Mabel Kelley for her generous contributions to Barry University. Kelley House houses 30 women in single and double air- and non-air conditioned rooms. Kelley House, built in 1940, contains primarily upper class students.

**LAVOIE HALL** — Originally the site of the Department of Family and Consumer Science and Calaroga dining hall, LaVoie was built in 1940. It now serves as administrative offices for the University.

**LIBRARY** — The Monsignor William Barry Memorial Library provides materials and services in support of the educational and cultural objectives of the University. Students have access, in open stacks, to a collection which exceeds 500,000 items. This includes over 2,000 periodical titles. The Barry Library participates in a number of library networks. The Southeast Florida Library Information Network (SEFLIN) provides by courier service and telefax access to more than nine million items and to 21,000 periodical titles held by the larger academic and public libraries of Dade, Broward and Palm Beach counties. Materials not readily available at this level are obtained through the Florida Library Information Network (FLIN), which provides for the delivery of materials based on the major libraries of the State of Florida including those of the state university system. The resources of the

libraries of the southeast and midwest through the Southeastern Library Network (SOLINET) cap the library exchange program. Faculty and students have access to audio and video taping facilities. Bibliographic instruction and reference service, including structured assistance in the use of CD-ROM and manual indexes, are an integral part of the library support of classroom teaching. The library building contains classrooms and departmental offices.

**PENAFORT POOL** — Built in 1941 through a donation from Margaret Brady Farrell, Penafort Pool serves as both a recreational and educational facility for students of Barry University. The Recreational Diving Management Office and Dive Locker are also located here.

**RENEE MOTTRAM DOSS HALL** — Barry's newest residence hall includes twelve undergraduate residences containing 48 bedrooms for a maximum of 96 students. Limited accommodations are also available for graduate students in this hall.

**THOMPSON HALL** — Built in 1962, Thompson Hall presently houses Student Services and activity areas, including the Rathskellar, cafeteria, dining rooms, administrative offices, post office, campus store and dance/fitness studio.

**SAGE HALL** — Built in 1984 as South Hall, on the south side of campus, this apartment-style hall provides quad air-conditioned rooms with private baths. Named after Robert F. Sage, one of Barry's benefactors, Sage Hall houses 91 students.

**SCHOOL OF PODIATRIC MEDICINE BUILDING** — This building at 11600 NE 2<sup>nd</sup> Avenue, houses classrooms and administrative offices for the School of Podiatric Medicine.

**VILLA** — In 1953 Barry University acquired a motel to be used as a residence. The Villa houses sisters as well as other campus staff personnel.

**WEBER HOUSE** — Named for former Barry University President, Mother Genevieve Weber, Weber Hall houses male students. The largest residence hall on campus, it contains both single and double air- and non-air-conditioned rooms as well as the campus infirmary. Weber was built in 1946 and was originally known as Stella Matutina.

**WIEGAND CENTER** — Built in 1970 through a donation from Edwin L. Wiegand, Wiegand Center contains classrooms, science labs, and an auditorium. The administrative offices for the Academic Health Science Center, Department of Physical Sciences, and the School of Nursing are located here. In 1987, a four-classroom wing was added to Wiegand Center.

#### **INSTITUTE FOR APPLIED ARCHAEOLOGICAL SCIENCES**

Joseph Davidovits, Ing. ENSCR, Dr. rer. nat., Director

The Institute for Applied Archaeological Sciences (IAPAS) was established to enhance science and technology by reviving ancient technology. There are many examples of practical techniques and technology used by ancient civilizations which have applications in the modern world.



Dr. Davidovits is renowned for discovering that the Great Pyramids of Egypt are comprised of geopolymeric limestone-concrete blocks, cast in-situ, as opposed to natural, quarried limestone. Dr. Davidovits' chemical research is performed at the Geopolymer Institute, in France, while programs pertaining to applied archaeological sciences are carried out by the IAPAS. As a chemical engineer, he specializes in low temperature mineral synthesis, and he is the discoverer of the chemistry of geopolymers. Dr. Davidovits is also a visiting professor at the University of Toronto, Canada.

Projects and findings are documented to provide new historic and technological information to historians, scientists, industry, and the general public. The IAPAS promotes broadest possible application of its findings and publishes books and scientific papers. A popular book written by IAPAS (Davidovits and staff) titled, "The Pyramids: An Enigma Solved," is scheduled for publication by Hippocrene Books, Inc. (NY).

To foster the program of the IAPAS, the following research projects are underway funded by government agencies or private institutions:

- **Nuclear and Toxic Chemical Waste Containment:** The IAPAS and a Canadian government funded research team are stabilizing toxic chemical and low- and high-level nuclear waste within a geopolymeric matrix. So far, geopolymers have been shown to successfully contain heavy metals, arsenic, cyanide, uranium, and toxic organic compounds. Even in early tests, geopolymer is proving to be unprecedented for waste containment. The main properties which make geopolymers ideal for waste storage are exceptional strength, leak resistance, freeze-thaw resistance, and durability. Because geopolymers are comparable to cements surviving from antiquity, the longevity of stabilized waste under specific climatic conditions is predictable under actual conditions.

- **Long-Term Grain Storage:** Archaeologists have documented numerous examples of extremely long-term grain storage. The biblical story of Joseph, son of Jacob (Genesis 41), recounts that grain was stored in ancient Egypt for 7 to 20 years. Ancient Egyptian documents also cite long-term grain storage, and grain has been found in surprisingly good condition after thousands of years of burial in Egyptian tombs. In contrast, the US Department of Agriculture (USDA) can store wheat no longer than 4 years using state-of-the-art technology. The superior grain storage method used in ancient Egypt has been rediscovered by Dr. Davidovits and is being revived by the IAPAS for grain silo construction.

- **Third World Construction Projects:** The IAPAS is planning collaboration with the Department of Chemistry and Applied Chemistry of the University of Toronto to solidify soils for construction purposes. Soils and clays can be geopolymerized at ambient temperatures to take on properties comparable to those of fired brick. The local resources of numerous environments can thus be employed to obtain low-cost building materials.

# Admissions

Adrian Hall

## Requirements and Procedures

### TYPES OF ADMISSION

There are 5 types of undergraduate admissions:

**FRESHMEN** — Applicants who have never attended any college or university as a regular student. Also, applicants who have attended college but who have earned less than 12 hours of credit are considered freshmen.

**TRANSFER STUDENTS** — Applicants who have at least 12 hours of college credit at one or more colleges or universities.

**INTERNATIONAL STUDENTS** — Applicants who are not U.S. citizens. For purposes of admission and academic placement, applicants who have received their education outside the continental United States or whose native language is not English will also be included in this category.

**NON-DEGREE STUDENTS** — Applicants who wish to earn credit but not pursue a degree from Barry.

**READMISSION STUDENTS** — Applicants who have previously been regularly enrolled at Barry.

All applicants are required to submit a complete application form and a nonrefundable application fee. The University has a commitment to admit only qualified students. For details on admission read the information below as it applies to your particular situation.

### FRESHMEN STUDENTS

- official high school academic record, or equivalent, from an accredited high school.
- test results from the SAT (Scholastic Aptitude Test) or ACT (American College Test). Foreign students should refer to the International Students' Admissions section.
- positive recommendation of guidance counselor or principal.

The official high school academic record should show: (1) graduation, or satisfactory progress toward graduation if applying prior to completion of 12th grade; (2) course work, including English, Social Studies, Mathematics,



and Natural Science. The minimum number of specific units required in these areas will vary depending on the major program pursued at Barry.

Students planning to major in Nursing must present two units of laboratory science, including chemistry and biology, and satisfactory completion of Algebra II.

Students planning to major in Mathematics must present three and one-half units of mathematics (including 2 years of algebra, geometry and trigonometry.)

Students planning to major in Chemistry must present at least three or four units of mathematics, and one unit of high school chemistry with laboratory science.

Students planning to major in Education or to be certified to teach must present an SAT score of 840 or an ACT score of 17.

Students planning to major in Biology or any Allied Health area must present three and one-half units of mathematics (including algebra, geometry and some background in trigonometry), as well as two units of laboratory science (including biology and chemistry). Satisfactory completion of these requirements for admission and successful completion of 30 semester hours, including freshman biology, chemistry and mathematics, will qualify the student to continue in the Division.

Students planning to major in Music must audition either in person or by submission of a 7<sup>1/2</sup> IPS reel-to-reel tape containing two selections or excerpts from two composers of different periods. The selections should total approximately 10 minutes and represent the student's technical and musical progress to date.

#### **Early Decision**

Students may apply during their junior year in high school to receive an early decision from Barry University. In order to do so, students must take the Scholastic Aptitude Test (SAT) or American College Test (ACT) by May of their junior year in high school and submit all of the admission requirements listed under Freshmen Students.

#### **Early Admission**

Exceptionally well-qualified students may be considered for admission prior to graduation from high school. Ordinarily, students are admitted only after they have been graduated from an approved high school. However, students recommended by their counselors for outstanding achievement may be considered for admission upon the completion of their third year in high school.

The bases of selection for early admission are as follows:

1. Recommendation of the high school counselor and three teachers.
2. Outstanding quality of the applicant's high school record.
3. Satisfactory performance on the Scholastic Aptitude Test or American College Test.
4. Personal qualifications.

The procedure for making application for early admission is basically the same as for regular admission to the freshman class except that the applicants must submit in writing their reasons for wishing to enter the university before graduation from high school.

The first year of credit completed with satisfactory grades (C or above) will apply toward degree requirements at Barry University. The credits also may be used to complete high school requirements, and when approved by high school authorities, earn a diploma. In order for Barry University to forward a student's transcript of credits to the high school principal, a signed form authorizing the release of credits must be submitted to the Office of the Registrar. When the high school diploma and final transcripts are issued, copies should be filed with the Office of the Registrar at Barry University.

#### **TRANSFER STUDENTS**

- two copies of official transcripts from each college previously attended. (Incomplete transcripts must be updated as soon as all coursework is completed.)
- Transfer Reference Form completed by the Dean of Students or Faculty Advisor at the last college attended.
- copy of high school academic record if applicant is under 21 years of age.

Applicants must present a minimum cumulative grade point average of 2.00 or better in all previous college work, and be in good standing at the last institution attended in order to be considered for acceptance into the University.

In accordance with the policy outlined below, Admissions Counselors prepare a Tentative Evaluation of Transfer Credit for all courses taken prior to admission to the University. This evaluation is generally received at the same time a student is notified of acceptance into the University, or shortly thereafter.

Transfer credits from regionally accredited colleges or universities are transferable to Barry in semester hour equivalents. A maximum of 64 credits will be accepted by the University from a regionally accredited two-year (junior) college. No course work in which a grade below C is earned will be accepted in transfer. Neither will credit be allowed for vocational courses or for courses taken below the acceptable college level. Grades and grade point averages will not be transferred, nor will they appear on the Barry transcript.

Credit for experiences which appear to have been assigned and supervised by the academic institution while the student was matriculated (such as Internship, Field Placement, Co-op Education Work Experience, Field Experience, and Practicum) may be acceptable in transfer when the credits have been transcribed with a course number, title, number of credits, and a grade, and with permission of the Dean.

Credit for prior college-level learning attained outside a formal institution setting but assessed by the academic institution during the student's matri-



culuation (such as Life Experience, Prior Learning Assessment, Experiential Learning Assessment, and Portfolio Assessment) are not normally acceptable in transfer. Exceptions may be made with permission of the Dean, when such credits have been transcribed with a course number, title, number of credits, and a grade.

Transfer students who expect to qualify for a baccalaureate degree must complete thirty uninterrupted credits of course work at Barry and must fulfill all requirements of the program which they elect to follow and the University distributive requirements for graduation.

Acceptance of transfer credit as fulfilling specific distribution requirements in English and mathematics will be determined by the achievement of satisfactory scores in the placement examinations given prior to first enrollment. Specifically exempt from this policy are second bachelor's degree candidates, students in the School of Adult and Continuing Education, RN's in the BSN Option, and students who have passed the CLAST exam.

Transfer students entering the University with less than sophomore status (30 semester hours) and planning to major in Allied Health, Biology, Chemistry, Mathematics, Music or Nursing must meet the high school requirements of freshmen applicants (refer to Freshmen Students.)

Transfer students planning to enter the Education program or to be certified to teach must present an SAT score of 835 or an ACT score of 17.

*Once enrolled*, students wishing to take additional courses at another college or university for the purpose of transferring the credits back to Barry University *must obtain prior written approval from the appropriate school dean*. Also it should be noted that no more than six (6) credits may be transferred and once a student has attained junior status (60 credits), no transfer credits are acceptable from a community or junior college.

Any concealment by a transfer applicant of previous college registration or previous academic or disciplinary record in college will immediately cancel and nullify the admissions process at Barry University.

#### **ARTICULATION AGREEMENT BETWEEN BARRY UNIVERSITY AND MIAMI-DADE COMMUNITY COLLEGE**

Barry University and Miami-Dade Community College entered into an agreement in the summer of 1986 that governs the matriculation at Barry University of Associate of Arts graduates from Miami-Dade.

Students should seek assistance from Miami-Dade's Advisement and Graduation Information System (AGIS) in order to be informed of suggested and required courses that they should take as part of their Associate of Arts Degree program at Miami-Dade and to satisfy requirements for transfer to Barry.

## **INTERNATIONAL STUDENTS**

As an international university, Barry has always welcomed students, faculty, and visitors from other countries.

### **Eligibility for Admission**

International students may be admitted to Barry University if they meet the University's admission requirements. For the purpose of admission to Barry University, an international student is: a student who has received high school and/or university level education outside of the United States and/or a student who requires a Student Visa. The basic admission requirement for students from other countries is determined by the University and varies with the experience and background of the applicant. The minimum academic requirements for students from some countries are given below. These requirements are intended only as a guide to applicants; they are subject to further qualitative evaluation. All applicants must provide official transcripts with English translation and counselor recommendation.

### **Undergraduate Applicants**

Argentina-Bachillerato  
Bahamas-5 Academic GCE "O" Level Subjects or CXC exams  
(Grade I or II)  
Barbados-5 Academic GCE "O" Level Subjects or CXC exams  
(Grade I or II)  
Bolivia-Bachillerato  
Brazil-Certificado de Conclusao de 2' Grau  
Canada-Grade 12 High School Diploma or 1st year of C.E.G.E.P.  
Chile-Licencia Secundaria  
China, Republic of—High School Graduation  
Colombia-Bachillerato  
Dominican Republic-Bachillerato  
Ecuador-Bachillerato  
Egypt-General Secondary Certificate of Education  
El Salvador-Bachillerato  
Finland-Matriculation Certificate  
France-Baccalaureat  
Germany-Maturity Certificate  
Greece-Apolytirion  
Guatemala-Bachillerato  
Haiti-Baccalaureat Partie II  
Honduras-Bachillerato  
Hong Kong-5 Subjects on Hong Kong Certificate of Education  
India-Higher Secondary School Certificate, Division I and Division II  
Indonesia-Idjazah S.M.A. Diploma  
Iraq-Baccalaureat  
Israel-Matriculation Certificate (Bagrut Examination)  
Italy-Diploma Di Maturita



Jamaica-5 Academic GCE "O" Level Subjects or CXC exams  
 (Grade I or II)  
 Japan-High School Graduation  
 Jordan-General Secondary Certificate of Education  
 Korea-High School Graduation  
 Kuwait-General Secondary Certificate of Education  
 Lebanon-Baccalaureat Part II  
 Libya-General Secondary Education Certificate  
 Malaysia-5 Subjects on Malaysian Certificate of Education  
 Mexico-Bachillerato  
 Morocco-Baccalaureat  
 Netherlands and Netherland Antilles-VWO or HAVO  
 Nicaragua-Bachillerato  
 Nigeria-5 Academic Credits on the WASC  
 Norway-Examen Artium  
 Pakistan-Higher Secondary Certificate, Division I and II  
 Pakistan-Higher Secondary Certificate, Division I and II  
 Panama-Bachillerato  
 Paraguay-Bachillerato  
 Peru-Certificate of Completion of Secondary Studies  
 Philippines-High School Graduation and NCEE results  
 Saudi Arabia-General Secondary Certificate of Education  
 Singapore-5 Academic GCE "O" Level Subjects  
 Sweden-Matriculation Certificate  
 Switzerland-Maturity Certificate  
 Syria-General Secondary Certificate of Education  
 Thailand-Matayom Suksa V  
 Trinidad-5 Academic GCE "O" Level Subjects or CXC exams  
 (Grade I or II)  
 Turkey-State Lycee Diploma  
 United Kingdom-5 Academic GCE "O" Level Subjects  
 Uruguay-Bachillerato  
 Venezuela-Bachillerato

**Certification of Eligibility (Form I-20 A)** — United States Department of Justice Immigration and Naturalization Service Certificate of Eligibility (Non-Immigrant "F-1" Student Status) will be provided to admitted students upon student request following completion of all admission requirements and receipt of verification deposit. A financial statement (needed prior to issuing an I-20 Form) must also be submitted. The University does not award financial assistance to international students. Payment of tuition and fees is required at the beginning of each term. All checks should be made payable to: Barry University. The financial statement should include:

1. A notarized letter of support or government sponsorship letter guaranteeing payment of tuition and fees, books, room and board, medical insurance and personal expenses for an academic year.
2. A bank letter stating that the student or his sponsor has the funds available to pay the total cost associated with attending Barry.

International students should be familiar with the regulations of their governments about sending money to the United States and should make arrangements to have the necessary funds available at the designated times of enrollment. Documentary evidence of means of financial support must be attached to the Certificate of Eligibility when applying for the student visa at the United States Embassy or Consular Office.

Students must fulfill the following conditions:

- Pursue a degree course of study as a full-time student. International students may not enroll as non-degree students.
- May not transfer schools or work off-campus without Immigration and Naturalization Service permission. Normally employment is not permitted by Immigration Services.
- Keep a current passport that is valid for at least six months into the future.

**Arrival-Departure/School Transfer** — Non-Immigrant alien visa students are required to attend Barry University as indicated on the Arrival-Departure Record (Form I-94) by immigration officials at the U.S. port of entry. They are expected to complete at least one semester at this institution prior to requesting transfer to any other educational institution.

**Permanent Resident Status** — When a student has permanent resident status the “Alien Registration Receipt Card” (“green card”) must be presented to the International Student Office at the time of registration.

### **Admission Procedures**

1. Application for Admission must be filled out completely and accurately.
2. Non-refundable application fee of U.S. \$25 must accompany application.
3. Educational Documents
  - a. Diplomas, Certificates

Copies should be enclosed with the application. Students from countries following the British educational system must submit the originals along with photocopies, and a stamped, self-addressed envelope for their return, or ask the examinations council to mail confidential results to Barry University.

Reports of scores in school-leaving examinations (e.g. Baccalaureat) must also be submitted.
  - b. Transcripts, Statements of Marks

A transcript must contain the following information: subjects studied; marks (grades) awarded; length of class periods; number of periods per week for each subject; grading scale with minimum passing mark.

Year-by-year records of marks should be sent to Barry University directly from U.S. institutions. Certified and notarized records from foreign institutions may be submitted by applicants, but the University sometimes insists that such transcripts be sent directly to Barry University from the issuing institutions.



#### 4. English Translations

Documents in language other than English must be accompanied by certified English translations. Translations supplement but do not replace original documents. Please remember to send both.

5. Syllabus of university study (description of each course or subject studied, grading scale showing the minimum passing mark, length of class periods and number of periods per week for each subject, accompanied by certified English translations.)
6. A current (within the past six months) bank or government sponsorship letter (declaration of finance) guaranteeing payment for tuition and fees, books, room and board, medical insurance and personal expenses of one calendar year (two semesters and two summer sessions) is required.

#### Examinations

All international applicants whose native language is not English, including those applying for transfer from U.S. institutions, are required to submit the results of the Test of English as a Foreign Language (TOEFL). Applicants who submit a TOEFL score of at least 550 will not be required to take courses in English as a Second Language. Academically qualified applicants whose TOEFL score is less than 550 may be admitted to the Cross Cultural Program—Applicants with scores less than 475 will be required to improve their English proficiency.

Also accepted as satisfactory proof of English proficiency is the College-Level Academic Skills Test (CLAST) reflecting a passing score in the English portion. **For TOEFL application write to: The TOEFL Program, Box 899, Princeton NJ 08540, U.S.A.**

The Scholastic Aptitude Test (SAT) or the American College Test (ACT) are not required of international students. However, international students are advised to take the SAT or ACT, if possible, for it can often establish admissibility for an applicant when his/her foreign records alone do not, or can qualify him/her for one of the University merit scholarships.

For SAT information and application forms, applicants in Japan, Taiwan, Australia, or the Philippines should write to: College Entrance Examination Board, 800 Welch Road, Palo Alto, California 94194. Other applicants should write to: The Educational Testing Service, Admissions Testing Program, Princeton, New Jersey 08540.

For ACT information and application forms all applicants should write to: The American College Testing Program, Registration, P.O. Box 414, Iowa City, Iowa 52243.

#### NON-DEGREE STUDENTS

The University recognizes that some applicants may wish to take courses at Barry for the purpose of personal enrichment, teacher certification, or to secure credits to transfer to a college where they are already enrolled in a degree program (guest student). Undergraduate students must present proof of high school diploma, or equivalent, as an admission credential. Guest

students are required to present a letter from the dean of the college in which they are enrolled stating that they are in good standing in all respects. Undergraduate students admitted to non-degree status are limited to 30 credits in this category. Non-degree seeking students who wish to change their status to degree seeking must meet all the requirements for degree seeking applicants.

#### **PLACEMENT TESTING FOR ALL UNDERGRADUATES**

All new undergraduate students (freshmen, transfer, non-degree) must take placement tests in writing and mathematics at the time of their first enrollment. Students must complete coursework indicated by placement exams in order to maintain enrollment at Barry University. Acceptance of transfer credit as fulfilling specific distribution requirements in English and mathematics will be determined by the achievement of satisfactory scores in these examinations. Specifically exempt from this policy are second bachelor's degree candidates, students in the School of Adult and Continuing Education, RN's in the BSN Option, and students who have passed the CLAST exam UNLESS they have English or Math courses to complete at Barry.

#### **RE-ADMISSION AND CHANGE OF STATUS**

The process of re-admission must be completed by students who were once enrolled at Barry University, but whose schedules have been inactive for at least a calendar year. The **Request for Change of Status or Re-Admission Form** must be completed by the student and returned to the Office of Admissions at least 30 days prior to the expected date of matriculation. This same procedure is also to be completed by students who were enrolled on a non-degree-seeking basis, and who now wish to enter an undergraduate degree program at Barry.

Students returning to the program after suspension or a leave of absence are bound by the regulations in place at the time of readmission.

#### **ALL APPLICANTS FOR ADMISSION**

It is the responsibility of the applicant to take required tests and have the results forwarded to Barry University, and to make sure all credentials required are supplied to the Office of Admissions. No action will be taken by the Admissions Committee on any application until all application credentials have been received by the Office of Admissions. Applications must be processed and acceptance verified no later than 10 days prior to the published date of registration for the semester in which the student wishes to matriculate.

Acceptance to the University does not mean acceptance to some of our clinical or professional programs, i.e., Nursing, Medical Technology, Social Work. Refer to these programs for specific information on admission to clinical/professional status.

The University reserves the right of final decision. All credentials submitted in support of an application become the property of the University and will not be returned.



## **COLLEGE LEVEL EXAMINATION PROGRAM (CLEP)**

The College Level Examination Program, an activity of the College Entrance Examination Board, makes available examinations through which a student may earn credit toward the bachelor's degree outside the regular classroom situation. Two types of examinations are offered: Five *general examinations* (English composition, humanities, mathematics, natural science and social sciences) and a number of *subject examinations*.

The granting of credit is contingent upon the following conditions and limitations:

1. Each score is acceptable to Barry University according to current University criteria.
2. A maximum of 30 credits will be accepted through CLEP, and all CLEP credit must be earned prior to achieving junior status (60 credits).
3. A student may not receive credit for a *general examination* if he or she has already earned college credit in a discipline covered by the appropriate *general examination*.
4. *The student may not receive credit for a subject examination* which covers the same subject area in which the student has already earned college credit.
5. Credit will not be awarded in cases of duplication nor will equivalencies be changed to remedy such duplication.
6. Maximum CLEP credits in any one discipline may not exceed six.
7. A fee of \$20.00 per credit must be paid to cover administrative costs.
8. Up to six credits in French or Spanish will be granted for CLEP upon completion of at least six credits in Spanish or French beyond the elementary level taken at Barry University.

Some departments are unwilling to accept CLEP credit as part of a major or minor, and all departments within the University reserve the privilege of review in these cases. If CLEP credit interferes with a major or minor and the department is unwilling to accept the credit to satisfy a course requirement, the CLEP credit will be accepted as an elective or as a distributive requirement. For newly accepted degree-seeking students the award of CLEP credit is made by the Office of Admissions; for enrolled students, the award of credit is processed through the Office of the Registrar. All CLEP credit is accepted on a credit/no credit basis. A maximum of 30 credits will be accepted through approved testing programs.

## **ADVANCED PLACEMENT PROGRAM (AP)**

The Advanced Placement Program, an activity of the College Entrance Examination Board, provides for the establishment of college-level courses in secondary schools. Students who take such a course or courses may then take special examinations prepared by the College Entrance Examination Board.

Credit for Advanced Placement examinations is based on the one-year AP experience. Credit is given only in cases of scores of 3 or better. Credit varies from 3-8 semester hours, depending on equivalencies available at Barry University. In no case will credit be given for more than one year's work. AP credit cannot be duplicated either in regular courses or through CLEP. A maximum of 30 credits will be accepted through approved testing programs. Credits are accepted on a credit/no credit basis. The award of AP credit is made by the Office of Admissions.



# Student Life

## STUDENT LIFE POLICIES

The University, in recognizing that each member of the campus community possesses certain rights and responsibilities, seeks to aid in the development of an atmosphere of respect and responsibility.

In order to coordinate the needs of the individual and the goals of the University, a committee of students, faculty and administrators has established Student Life Policies. These policies are viewed as directives, guidelines and limits set to assure equality, respect and concern for individual rights and community living. These policies are published in the University's *Student Handbook*.

## HOUSING

On-campus accommodations within the residence halls are available to full-time degree-seeking, undergraduate students. Air- and non-air-conditioned single, double and quad rooms with baths are available within the residence halls.

All students desiring to live on campus must request housing applications from either Admissions or the Residential Life Office. Acceptance by the University does not assure a student of on-campus housing unless the student completes the application for housing.

Before being assigned a room, each resident must pay a \$200.00 room/security deposit. This payment reserves the room for the length of the housing agreement. It may also be used as restitution for damages assessed, should any occur during the student's stay in the residence halls. This deposit will remain in a separate account and carry over from year to year while the student is residing on campus. If no damage has been assessed after a room has been properly checked out, the \$200.00 deposit will be returned.

A resident, moving out of the residence halls during his/her agreement period, will forfeit his/her deposit.

Housing applications must also be accompanied with a proof of health insurance or an indication of a desire to purchase university health insurance.

The residence hall and dining facilities are closed during the Christmas holidays and during the periods between the end of the summer session and the opening of the fall semester.

Off-campus housing listings are available through the Office of Residential Life for students interested in pursuing living accommodations in the community.

### **COUNSELING SERVICES**

The Student Development Center provides confidential, personal, social, academic, and career counseling to all students. Assertiveness training and other developmental workshops are offered. Students are encouraged to visit a counselor and are assured that confidentiality is maintained. When requested, or when appropriate, referrals are made to the University consulting psychiatrist, physicians, and/or community agencies.

### **CAREER COUNSELING AND STUDENT DEVELOPMENT**

The Student Development Center seeks to encourage personal responsibility on the part of students in life and career planning. Exploration of educational and career opportunities is facilitated to assist students' personal development. Our goals are:

1. to support and encourage each student who is attempting to make career/life choices and
2. to help each student recognize his/her unique abilities, interests and skills, and to combine these creatively into a desirable career alternative.

To accomplish this developmental task, the Center for Student and Career Development provides the following services:

1. Career counseling
2. Credential (placement file) service
3. Part-time job listings
4. Full-time career positions listings
5. On-campus interviews
6. Workshops of resume writing, interviewing and other job seeking and career skills
7. Career Library containing occupational and organizational information
8. Computer assisted guidance program
9. Internship Program

Students are encouraged to begin their career search during the freshman or sophomore year by becoming familiar with the Student Development Center and its services. Candidates for Barry University degrees are urged to file their credentials at least one semester prior to graduation.

### **GORDON RULE**

Students who plan to transfer to a college or university in the Florida State system should fulfill the Gordon Rule relative to writing and math requirements 1) Four courses (12 credits) that each include a minimum of 6,000 written words 2) Two math courses (6 credits) at or above the level of college algebra.



## **TESTING SERVICES**

Testing is offered to assist students with academic, vocational, or personal problems. The student may be self-referred simply by request, or may be referred by faculty advisors and/or counselors.

Reliable, valid, and current interest, personality, and aptitude tests are provided. The service is available to all Barry students free of charge, with the exception of a minimal fee for the computerized scoring of the Strong Campbell Interest Inventory and the Myers-Briggs Test.

The results of all tests are interpreted to the student, and the final report becomes the property of the student.

Institutional examinations such as the Miller Analogies Test are also administered as a service to those wishing to pursue graduate study.

## **ORIENTATION**

An orientation period is conducted by Barry University prior to registration to aid the incoming student to adjust to University life.

Students meet faculty advisors, members of the staff, counselors, fellow students and administrative officers so that all phases of the University are made familiar to them. Campus tours are conducted to acquaint new students with the facilities of the University.

Placement testing, group discussions and individual conferences on traditions, purposes, rules and regulations, study habits, academic standards and counseling are undertaken during this period.

Parents and guardians are invited to attend an opening session.

## **ORIENTATION 100**

Orientation 100 (ORI 100) is a one semester, one credit course open to all freshman and new students. The objectives are to help students adjust to Barry University and to encourage positive attitudes about themselves and the learning process. Skills essential for academic and personal success will be presented. All new students are encouraged to register for this course.

## **CAMPUS STORE**

The Campus Store is open for the services and needs of the students of Barry University. Books, supplies, and other sundries are available for purchase. The bookstore is located in Thompson Hall, first floor.

## **FOOD SERVICE**

Food service is available to all students in Thompson Hall, second floor, on a cash basis. Meals are served cafeteria-style seven days per week and include, Monday — Friday, breakfast from 7:00 am to 8:30 am, continental breakfast at 8:30 am — 9:30 am, lunch from 11:30 — 1:15 pm, and dinner from 4:45 — 6:15 pm. On Saturday, breakfast is served from 8:30 am — 9:30 am, and the Sunday brunch is served from 10:00 am — 12 am.

There is a Canteen located on the first floor of Thompson Hall which is also available to all students.

### **HEALTH SERVICES**

Students have access to a health program offered through the campus clinic, where a registered nurse is on duty. An infirmary, adjacent to the clinic, provides for the needs of those students who are ill and require special care. The services of a psychiatrist are available to all students. The University offers a group insurance program to which students must subscribe if they do not have similar coverage.

### **INTERNATIONAL STUDENT SERVICES**

Barry University recognizes that a great university ideally builds and extends its services, its potential, its scholarly standing by providing an international dimension through its curriculum and the composition of its student body. It actively promotes international cultural/educational interchange.

The services of the International Student Advisor are available in matters related to government regulations, Immigration and Naturalization Services (INS), housing, employment, academic, athletic and personal matters. This attempts to participate in the process of adjustment which faces international students as they experience new cultural and academic phenomena. The University wishes to provide sensitive and understanding support for those who are in need of assistance.

### **SPORTS ACTIVITIES**

Barry offers a comprehensive sports program at both the intercollegiate and intramural levels.

#### **Intercollegiate Athletics**

At the intercollegiate level, Barry University competes as an active member school in the National Collegiate Athletic Association (NCAA), Division II and the Sunshine State Conference. Planned intercollegiate sports for academic year 1990-91 include: men's baseball, basketball, cross country, golf, soccer and tennis; women's basketball, cross country, soccer, softball, tennis, and volleyball.

The 1990-1991 academic year will be our seventh year of competitive intercollegiate athletics. As an NCAA member school, Barry University extends a traditional role of academic excellence and identity into an intercollegiate athletic program which offers national recognition for the student-athlete. All full-time undergraduate students are welcome to "try-out" for any intercollegiate sport. Everyone is welcome to BACK THE BUCCANEERS!



### **Coaching Staff**

Men's:	Baseball	Bruce Barclay
	Basketball	Billy Mims
	Cross Country	Joseph Whitehead
	Golf	Tom Abdo
	Soccer	Ian Martin
	Tennis	Scott Ehrlich
Women's:	Basketball	Dan Olson
	Cross Country	Joseph Whitehead
	Soccer	Michael Covone
	Softball	Al Arceo
	Tennis	George M. Samuel
	Volleyball	Debbie Interdonato

### **Intramural Sports**

The general purpose of the Intramural Sports Program at Barry is to provide students, faculty, and staff with opportunities to participate and compete in various sports and recreational activities for personal enjoyment, social fulfillment, and lifetime fitness.

Available team and individual sports and recreation activities will be primarily determined by student interest. On-campus facilities accommodate all intramural sports activities. Planned activities include: men's flag football, men's basketball, women's basketball, co-ed softball, tennis, billiards, ping pong and racquetball tournaments.

### **STUDENT GOVERNMENT ASSOCIATION**

The Student Government Association serves as a liaison between the undergraduate student body and the administration and faculty. All full-time undergraduate students are members of the Association, which is governed by an Executive Board consisting of sixteen elected representatives. Ten members are elected during the spring semester with the remaining six places filled early in the fall semester. A chairperson (or co-chairperson), a secretary, and a treasurer are elected from the membership of the Executive Board.

### **CAMPUS ORGANIZATIONS**

A number of clubs and departmental organizations offer membership to the student body in general:

Albertus Magnus Science Club, Alpha Theta (Ushers), Ambassadors, Bread for the World, Business Forum, Circle K, French Club, History Association, International Student Association, MBA Club, Nursing Student Association, Psychology Club, Samothrace Club, Spanish Club, Student Government Association, Golden Z Club.

## **FRATERNITY/SORORITY**

Omega Chi Phi fraternity and Delta Phi Epsilon sorority are socially oriented service organizations open to students after they have completed the first semester of their freshman year. These organizations provide Barry students with an outgoing spirit of friendship and unity through various service projects and social functions held throughout the year.

## **HONOR SOCIETIES**

Lambda Sigma is a Barry University campus honor society open to all undergraduate students, second semester freshman and above, and requires of its members a 3.00 (B) grade point average and active leadership in service on the Barry campus. Kappa Gamma Pi (National Catholic Women's Honor Society) is open to graduating seniors who have a 3.50 grade point average and an outstanding record of leadership and service. Delta Epsilon Sigma National Scholastic Honor Society for Men and Women is open to juniors and seniors who hold a 3.50 grade point average and demonstrate leadership in their respective fields. Alpha Chi is a national, coeducational honor society open to graduating seniors with a 3.70 grade point average and exemplary character. Sigma Theta Tau International, the honor society of nursing is open to juniors, seniors, and RN-BSNs in the top third of their class.

Seniors who have a grade point average of at least 3.00 (B) and a good leadership record may also be chosen to be listed in WHO'S WHO AMONG STUDENTS IN AMERICAN COLLEGES AND UNIVERSITIES.

Barry also holds memberships in the following national honor societies: Alpha Mu Gamma (foreign languages); Beta Beta Beta (biology); Kappa Delta Pi (education); Phi Alpha Theta (history); Psi Chi (psychology); Theta Alpha Kappa (religious studies), and Delta Mu Delta Epsilon (business administration).

## **THEATRE**

The University Theatre Department produces a diversified program of dramatic presentations. Throughout the year, theatre majors produce plays in traditional mime, experimental and puppet theatre. Students have the advantage of two performance areas, including the main auditorium and the Pelican Theatre. Barry's theatre companies are frequently called upon to perform for outside local organizations.

## **BARRY UNIVERSITY CHORALE AND BARRYTONES**

The Barrytones is a performing group comprised of students who qualify for membership through auditions. The University Chorale is an organization dedicated to singing all styles and periods of music. It is open to students and interested community participants. No audition is required.



## **RECITALS AND EXHIBITS**

Students specializing in instrumental and vocal music, as well as members of the Music and Theatre faculty, present studio recitals and public concerts. The Art faculty schedules exhibitions by contemporary artists throughout the year, in addition to student exhibitions and faculty exhibitions. Barry University points with pride to art objects executed by senior art majors and displayed throughout campus buildings.

## **CAMPUS MINISTRY**

Campus Ministry is a service of faith and love offered by priests, religious, ministers of many faiths, faculty, staff and students who strive to build and support a vital, caring community, open to God in worship and prayer, alive to the human and spiritual needs of our own academic community and to the needs of society at large. It does this by enabling personal growth and development within our community by care and concern for persons; by celebrating the life of the community, by proclaiming the Gospel and its values; by building and strengthening a community of faith; by promoting participation and education in the work of social justice; and finally, by loving concern for students of all faiths, respecting their freedom to maintain and express their own religious convictions and facilitating access to and encouraging the availability of their own ministers or rabbis for worship, study or counsel.

## **PUBLICATIONS**

University publications include the BARRY BUCCANEER, the university student newspaper; THE TORCH AND SHIELD, the university yearbook; and THE FLAME, published four times a year; the BARRY BULLETIN; and the CALENDAR OF WEEKLY EVENTS, all published by the Office of University Relations.

## **ALUMNI ASSOCIATION**

The Board of Directors of the Alumni Association is a national Board representing seven geographic regions which meets annually on the Barry campus to plan the yearly business of the Association. The Association and its regional chapters help with student recruitment, reunions, receptions for new students, and special alumni events.

The Alumni Office and director of Alumni Relations are located in LaVoie Hall. With the support of the Association, the Office conducts an annual Alumni Fund Drive, including a phonathon, and coordinates a variety of alumni programs such as dinner/theatre parties, reunions, picnics, lectures.

# Tuition, Fees and Financial Aid

The estimated cost of a student is listed below, covering both the fixed charges and the standard fees. All students are assessed tuition and fees on a semester basis. All rates given are subject to change without notice.

1990-91

TUITION:	Undergraduate, full-time 12-18 credits, per semester.....	\$ 4,245.00
	Undergraduate, part-time per credit.....	250.00
	Credits in excess of 18, per credit.....	250.00
	Barry/St. George's Pr Med., per semester.....	4,750.00
	BEC Undergraduate per credit.....	25.00
	*Adult & Continuing Education, per credit.....	130.00
	*Computer Science, Adult evening, per credit.....	130.00
FEES:	Orientation Fee (for new full-time undergraduate students).....	50.00
	Application fee, payable once.....	25.00
	Registration fee, payable each semester.....	10.00
	Special Course fee.....	Variable
	Graduation fee.....	40.00
	Parking fee.....	10.00
	Student Activities fee (full-time students).....	90.00
	Student Activities fee, part-time students, per credit.....	7.00
	Portfolio Evaluation fee.....	Variable
	Deferred Payment Plan fee.....	25.00
	Health Insurance (8/15/90 to 8/15/91)	
	Student only.....	TBA
	Student and spouse.....	TBA
	Student, spouse, and dependent children.....	TBA
	Student and dependent children.....	TBA
	Room Damage Deposit.....	200.00
	(Refund determined by condition of room)	



Room and Board, per semester (20 meal plan — 14 meal plan \$25 less)	
Triple/Quad Non-Air Conditioned Room .....	1,670.00
Triple/Quad Air-Conditioned Room .....	2,180.00
Double Non-Air-Conditioned Room .....	1,770.00
Double Air Conditioned Room .....	2,340.00
Private Non-Air-Conditioned Room .....	1,865.00
Private Air Conditioned Room .....	2,525.00
Drop/Add fee .....	3.00
Drop/Add fee Adult & Cont. Education .....	10.00

\*Discounted tuition. No further discount applies.

TOTAL EXPENSES ARE TO BE PAID PRIOR TO THE COMPLETION OF REGISTRATION.

DISCOUNT POLICIES DO NOT APPLY TO ALREADY DISCOUNTED COURSES.

STUDENTS WHO APPLY FOR GRADUATION AFTER THE GRADUATION REGISTRATION DATE WILL PAY A LATE FEE OF \$10.00

### REFUND POLICY

#### Total Withdrawal From The University

Students who register but do not attend classes, or who withdraw for any reason after attending classes, will not receive credit unless they withdraw officially by submitting a written notice of withdrawal to the Office of the Dean of their respective School. The effective date of withdrawal will be the date on which the notice is received by the respective Dean and the percentage of credit will be determined by this date.

**Tuition, Room and Board Fees will be Credited on this basis:** If the student leaves within the first two weeks of the semester, 80% of the full semester charge is credited; within the first three weeks, 60% is credited; within the first four weeks, 40% is credited; within the first five weeks, 20% is credited. After the fifth week there is no credit. Refundable credit must be claimed within one calendar year. For purposes of determining the percentage of credit, the first week of classes will be considered the start of the semester and upon which credits will be based. The above percentages apply to students who have paid their tuition and fees in full prior to the day of withdrawal.

**Summer School Refunds.** If the student leaves within the first week of the summer session, 60% of tuition, room and board is credited; within the second week, 20% is credited. After the second week, there is no credit. Refundable credit must be claimed within one calendar year. For purposes of determining the percentage of credit, the first week of classes will be considered the start of the Summer Session and upon which credits will be based.

**All fees, Outside of Tuition and Room and Board, are Non-Refundable.**

## **TUITION PAYMENT PLAN**

Barry University offers the services of several private companies to provide an alternative method of paying for tuition and fees. Briefly, each company will assist students in budgeting monthly payments for tuition and fees. For more information, contact the Business Office.

## **WITHDRAWAL POLICY FOR INDIVIDUAL COURSES**

Students who drop individual courses after the Period of Schedule Adjustment and are still enrolled in the University are NOT ENTITLED to any refund or credit.

## **CHANGES MADE DURING THE PERIOD OF SCHEDULE ADJUSTMENT**

Students dropping courses during the Period of Schedule Adjustment will receive total credit for the course and special course fee, if applicable, as long as the student remains enrolled in the University.

## **STUDENT DISMISSAL**

A student dismissed for academic or disciplinary reasons at any time shall not be entitled to any claim or refund.

## **GRADES, TRANSCRIPTS AND DIPLOMAS**

No student may receive a diploma, transcript of credits or final grade report until his/her financial account has been settled. This also includes delinquent amounts of loans.

## **PARKING**

Parking on campus is available only with permit. Barry University Parking Permit may be purchased at the time of registration.

## **HEALTH INSURANCE**

Health insurance coverage is required for all students, intercollegiate athletes and international students. The insurance is available for students taking six or more hours. The insurance fee will be charged at time of registration if the student is not covered by a similar health insurance plan. It is the responsibility of the student to make sure insurance has been charged.

## **Financial Aid**

The objective of the Financial Aid Program at Barry University is to provide financial assistance to students who need aid in order to enroll or to continue at the University. The Financial Aid office has established procedures and practices which assure fair and consistent treatment for all applicants.

The programs are administered in conjunction with a nationally established philosophy and policy of financial aid for education. The basis of this philosophy is the belief that parents, or in some cases students, are the primary resource for meeting educational costs and that financial aid is



available only for filling the gap between the student's potential resources (such as parents' contribution, summer earnings, savings, etc.) and expenses. The total cost of attending college includes tuition and fees, room and board, books and supplies, personal expenses and allowable travel expenses.

The Financial Aid Form (FAF) is the document used to collect information for determining the student's need for financial aid. The student submits the FAF to the College Scholarship Service (CSS), an activity of the College Board, where it is analyzed. The information the student reports on the FAF is confidential and is sent only to schools and agencies requested by the student. Application forms may be obtained from the Financial Aid Office.

Section 132 of the Education Amendments of 1976 states that a student shall be entitled to receive Federal student assistance benefits only if "that student is maintaining satisfactory progress in the course of study he/she is pursuing." (i.e., maintains good academic standing.)

For financial aid purposes, "satisfactory progress" is defined as receiving credit for at least 24 semester hours each academic year if registered as an undergraduate full time student. Part-time students must earn the same number of hours they register for. (Part-time students who register for 9 credit hours during the semester must earn 9 credit hours by the end of the semester. Likewise for students registering for 6 credit hours).

A student is in "good academic standing" if the cumulative grade point average (GPA) is 2.00 or above.

#### **TYPES OF FINANCIAL AID**

There are four kinds of financial aid at Barry as at most colleges and universities. They are 1) scholarships, 2) grants, 3) loans, and 4) work programs.

**SCHOLARSHIPS** are for superior students and are given for academic ability. All undergraduate students are eligible for scholarships. Scholarships are awarded without consideration of financial need.

**GRANTS** are similar to scholarships. But they differ in that grants are awarded to students based mainly on substantial financial need. Academic ability is only a minor consideration in awarding grants. Like scholarships, all undergraduate students are eligible for grants regardless of the area of study. Money for grants come from federal, state, and institutional sources and may range from a low of \$200 to \$2,300 annually. The amount depends upon one's need for assistance. The greater the need, the greater the opportunity for a grant.

**LOANS** differ greatly from scholarships and grants and mean just what the name implies. It is money that is loaned to a student and must be paid back. Repayment begins six months after one leaves school. Approval of loans are based upon the student's need and the student's academic ability.

There are different kinds of loans.



There is the campus-based federal loan known as the Perkins loan. This loan program is administered on campus by the university. It can provide up to \$1,500 per year. Interest on this loan is five percent.

We also offer the Stafford Loan Program (formerly Guaranteed Student Loan). This program offers the student a low-interest loan made by a lender such as a bank, credit union, or savings and loan association. These loans are insured by the guarantee agency of the student's State and reinsured by the Federal Government.

For new borrowers, the interest rate is 8 percent. For students who currently have a 7 or 9 percent Stafford Loan, the interest rate on additional Stafford Loans will continue to be 7 or 9. Applications may be obtained from Barry University, a lender, or from your State guarantee office. To qualify, students must demonstrate financial need.

The PLUS and SLS programs provide additional funds for educational expenses. They are made by a lender such as a bank, credit union, or savings and loan. The interest rate is variable and while borrowers are not required to demonstrate financial need, they must complete a need analysis form. Repayment begins within 60 days of the disbursement of the loan.

WORK PROGRAMS are self-explanatory. There are two programs. The first is a federally funded work-study program. Student selection is based solely upon need. Students work on campus, and depending on their financial need, may work up to 25 hours per week while attending school.

The second program is university funded. In order to help students defray part of the cost of education, the University will allow students to work on Campus. Wages earned are credited directly to the student's account. Need is not always a factor in the selection of students for work in this program.

#### **MAKING APPLICATION FOR FINANCIAL AID**

Complete the application for admission first. Then complete the application for financial aid (FAF) as well as the Barry Financial Aid Supplement Form. A copy of the student's and his/her parents' Income Tax Return for the base year is also required. Submission of inaccurate or false information will result in loss of all financial aid opportunities. Once submitted, the application for financial aid cannot be returned, but will be held in the strictest of confidence. Scholarship and financial aid applications and supporting documentation should be sent directly to the Office of Financial Aid. Preference is given to those who apply before April 1.

An official response on your financial aid application is dependent upon the action taken on the application for admission. For this reason it is important to apply early and follow through in submitting admission materials.

#### **College-Level Academic Skills Test (CLAST)**

One of the conditions to be eligible to receive funds from the State of Florida is that the student participates in the College-level Academic Skills Test (CLAST). This must be done **prior to the end of the semester** in which 60 semester hours are earned.



## Scholarships and Grants

In considering applications for most freshmen scholarships and grants, the University utilizes the following criteria: the high school grade point average, SAT or ACT scores, recommendation of principal and/or guidance counselor. For transfer scholarships the following criteria is used: college(s) grade point average, college references and activities.

**PRESIDENTIAL AND ACADEMIC MERIT SCHOLARSHIPS.** Presidential Scholarships are awarded annually on a competitive basis to students with high scholastic achievement, demonstrated extracurricular activities, and good character. These scholarships are available to incoming freshmen and transfer students applying for full-time status, and they are awarded without consideration of family income. Scholarships are renewable providing the recipient maintains a grade point average of 3.25 or above for the Presidential and 3.0 or above for Academic Merit scholarships in all course work and is in good disciplinary standing. Qualified students should request a scholarship application from the Office of Admissions.

**FOCUS ON EXCELLENCE.** Barry University's "Focus on Excellence" scholarships recognize outstanding students from all Florida Catholic High Schools. In order to be considered, students must be superior high school seniors who have a minimum combined score of 1100 on the Scholastic Aptitude Test, a 3.5 on a 4.00 scale or higher grade point average in high school, and rank in the upper ten percent of their graduating class. These are full-tuition scholarships and they are renewable providing the student maintains a 3.3 grade point average. To apply, students must contact the Office of Admissions.

**CLINTON D. HAMILTON SCHOLARSHIP.** This scholarship, named in honor of the executive vice-president of Broward Community College is awarded to one Honors Program graduate of BCC who has achieved a cumulative GPA of 3.6 or above. This scholarship is valued at the full-tuition cost of the University for one academic year. It may be renewed for one more year if a 3.0 (B) cumulative GPA is maintained.

**FLORIDA ACADEMIC SCHOLARS' FUND.** This program was funded by the 1981 Florida Legislature to award scholarships to resident students who were first time college students during the 1981-1982 academic year attending eligible colleges and universities in Florida. The program is administered by the Florida Department of Education. Applications may be obtained from the Financial Aid Office but inquiries must be directed to the Florida Department of Education, Knott Building, Tallahassee, Florida 32301.

In order to qualify students must:

- (a) Submit each year a completed application on Form AS-1 to the Florida Department of Education, Knott Building, Tallahassee, Florida, 32301.
- (b) Be enrolled as a full-time student each semester.
- (c) Have been a bona fide resident of Florida for the preceding two (2) years prior to graduation from high school or equivalent.



- (d) With the initial application for the scholarship students must submit documentation certifying recognition by the merit or achievement programs of the National Merit Scholarship Corporation as a scholar, finalist, semifinalist or commended student, or documentation from a high school principal certifying recognition as having graduated in the upper two percent (2%) of an accredited high school and obtaining a 3.5 grade point average on a 4.0 scale in high school academic subjects.
- (e) College-Level Academic Skills Test (CLAST). One of the conditions to be eligible to receive funds from the State of Florida is that the student participates in the College-Level Academic Skills Test (CLAST). This must be done **prior to the end of the semester** in which 60 semester hours are earned.

**PRE-MARC/MARC SCHOLARSHIPS.** Barry University provides Minority Access to Research Careers (MARC) through a long term renewable grant awarded to the University's Division of Biological and Biomedical Sciences by the United States Department of Health, Education and Welfare. The main purpose of this scholarship is to increase the number of well-prepared minority students who can compete successfully for entry into graduate programs leading to the Ph.D. in a biomedical science. Students must be Biology, Chemistry, Mathematics or Psychology majors. For more information write to: Sister John Karen Frei, O.P., Ph.D., Project Director, Division Biological and Biomedical Sciences, Barry University.

**ATHLETIC SCHOLARSHIPS.** Barry University offers athletic scholarships to students that show outstanding ability in any one of the intercollegiate sports programs offered by the university. Interested students should contact the appropriate Head Coach or the Director of the Athletic Department.

**FLORIDA TUITION VOUCHER FUND (FTVF).** This program was created by the 1979 Florida Legislature to provide tuition assistance to undergraduate resident students attending eligible non-profit private colleges and universities located in the state. To receive a Florida Tuition Voucher, a student shall:

- 1) submit a completed application yearly to the participating eligible post-secondary institution.
- 2) be enrolled as a **FULL-TIME UNDERGRADUATE** student each term.
- 3) have resided in the state of Florida for at least twelve (12) continuous months preceding the award of a Florida Tuition Voucher.
- 4) College-Level Academic Skills Test (CLAST). One of the conditions to be eligible to receive funds from the State of Florida is that the student participates in the College-Level Academic Skills Test (CLAST). This must be done **prior to the end of the semester** in which 60 semester hours are earned.

Applications may be obtained from the Office of Admissions or the Office of Financial Aid.

**FLORIDA STUDENT ASSISTANCE GRANT PROGRAMS (FSAG).** Student Assistance Grants are awarded for one academic year. The awarding



and the amount of the grant are based on financial need. The maximum amount of a grant is \$1,300 per academic year. For application information, contact the Office of Financial Aid.

**BARRY GRANTS.** Funds are available to assist students who have academic promise and whose Financial Aid Form (FAF) reflects a definite financial need.

**PARISH GRANT.** Students graduating from high school may be eligible for a Parish Grant. This grant is worth \$1,000 and is renewable each year, provided the student maintains the necessary academic standards. In order to apply, students must contact their own parish for sponsorship. If the parish is willing to support the student with \$500 per year, Barry will likewise match that \$500.

**PELL GRANT.** Funds are available to eligible UNDERGRADUATE students attending on a full-time or part-time basis (minimum of 6 credits per semester). Grants are available in amounts ranging up to approximately \$2,300 per academic year.

**SUPPLEMENTAL EDUCATIONAL OPPORTUNITY GRANT PROGRAM (SEOG).** Students are eligible to apply if they are enrolled at least half time as an UNDERGRADUATE student. SEOG awards may not be less than \$200 or more than \$2,000 a year.

#### **Scholarships Subsidized by Friends of the University**

**AGNES MARTIN SCHOLARSHIP.** This scholarship was established in 1983 in memory of a long-time Barry benefactor. Awards are based on financial need and applicant's demonstration of leadership and service qualities. Awards will range from \$300 per semester for two students or \$500 a year for one student.

**THE MONSIGNOR WILLIAM BARRY SCHOLARSHIPS.** These scholarships, funded in loving memory of Monsignor William Barry by Mrs. Ucola Katzentine, are awarded to students who demonstrate superior academic achievement, involvement in extra-curricular activities and are financially needy. Applications may be obtained from the Financial Aid Office.

**FORREST J. FLAMMANG SCHOLARSHIP FUND.** Under the will of Forrest J. Flammang, a trust fund was established to distribute funds to private higher educational institutions located in Dade County. The funds are used for the purpose of providing scholarships for needy students. Applications are available through the Office of Financial Aid.

**WILLIAM J. MESSICK MEMORIAL SCHOLARSHIP** was established in memory of The Reverend William John Messick, O.S.F.S., Ph.D., who served as Vice President of Institutional Advancement at Barry University. For further information, please contact the Office of Financial Aid.

**THE MIAMI HEAT SCHOLARSHIP.** This scholarship is available to students who graduated from high schools in the Overtown area. Students wishing to apply must contact the Office of Financial Aid.



THE PAUL & MARY MINNAUGH THEATRE SCHOLARSHIP. This scholarship is available to students majoring in Theatre. To apply, students must contact the Theatre Department.

PATRICIA JOHNSTON O'HEARNE SCHOLARSHIP. Mr. David O'Hearne has established a one-half tuition scholarship in honor of his wife, Patricia Johnston O'Hearne. Priority will be given to undergraduate or graduate students majoring in liberal arts, residents of Long Island and/or Fairfield County. Students must maintain a B average and a well-rounded extra-curricular life.

PILOT INTERNATIONAL, MIAMI SHORES CHAPTER SCHOLARSHIP. This scholarship is available to sophomore, junior and senior women business majors who have demonstrated financial need, strong leadership qualities, strong potential and academic accomplishments. In addition, the student must be a Florida resident and must be enrolled as a full-time student. Applications, recommendations and financial statements should be submitted prior to Nov. 1 to the Miami Shores Chapter, Scholarship Committee.

SISTER ELAINE SCANLON SCHOLARSHIP. Sister Elaine Scanlon Scholarship was established by the Barry University Auxiliary in honor of Sister Elaine Scanlon, O.P. who served as Auxiliary President from 1986 - 1989. The Scholarship was established to assist undergraduate students who need aid in order to continue their studies. Recipients will be chosen at the discretion of the Auxiliary. To apply, students must contact the Office of Financial Aid.

SISTER M. DOROTHY BROWNE, O.P. ALUMNI SCHOLARSHIP. The Sister Dorothy Browne Scholarship was established for the children of the alumni by the Alumni Association in honor of Sister M. Dorothy Browne, O.P. who served as President of Barry College from 1963-1974. This scholarship is valued at \$1,000.00 and may be renewed annually if a 3.0 cumulative grade point average is maintained. Applications are available through the Office of Financial Aid.

GRACE R. SOUTHMAYD SCHOLARSHIP FUND. Service requirements to Barry University by the recipient of the Grace Southmayd Scholarship Fund could be met by an internship in the Alumni Office. The student would participate in Alumni Office programs such as the following:

- 1) Liaison to Student Representatives on the Alumni Association Board of Directors
- 2) Student volunteer co-ordinator for Phonothon
- 3) Special Events contact person
- 4) Other Alumni activities such as Reunions and Chapter meetings

This would provide needed service to Barry University while developing interest and commitment to the Alumni Association.

AVERILL STEWART SCHOLARSHIP. This scholarship was established by Barry University Trustee, James Stewart, in memory of his wife, Averill Stewart. The scholarship is valued at the full tuition cost, plus room and board. To apply an individual must have a 3.5 average in high school and



have been actively involved in extracurricular activities. The scholarship is renewable annually providing the student maintains a 3.25 cumulative GPA and is a leader in extracurricular activities. To apply, students should contact the Office of Financial Aid.

**CHERYLYN GOVORCHIN WISEHEART MEMORIAL SCHOLARSHIP.** This scholarship, established by Dr. Gerald G. Govorchin and Lillian Govorchin in memory of their daughter, a versatile and talented musician whose career was tragically cut short, is for students majoring in music. Selection is on the basis of need, academic achievement, and potential, with preference given to students studying piano or harp. A grant of \$500 is awarded each semester. To apply, students should contact the Office of Financial Aid.

**BARRY UNIVERSITY SCHOLARSHIPS AND LOANS.** Limited funds are available for student loans and scholarships in special programs. Information on these programs is available through the Office of Financial Aid. These loans are subsidized by benefactors of Barry University.

### **School of Nursing**

**NURSING STUDENTS** are eligible for numerous scholarships, grants, and loans limited to students enrolled in the School of Nursing undergraduate or graduate programs.

### **SCHOLARSHIPS**

**BLACK NURSES ASSOCIATION, INC., MIAMI CHAPTER-** Black students who are U.S. citizens, Florida residents, enrolled in the School of Nursing with a 2.5 GPA and who have financial need are eligible to apply for this scholarship. Award is usually \$1,000.

**NATIONAL STUDENT NURSES' ASSOCIATION, INC. FOUNDATION-** This professional organization serves as a clearinghouse for numerous organizations offering scholarships to students enrolled in the School of Nursing. Scholastic achievement and need are important. Students complete one application which is considered for all scholarships for which the student is eligible. Amounts of award vary.

**FLORIDA NURSES' ASSOCIATION - DISTRICT 32 -** Students enrolled in the School of Nursing who have been residents of Broward County for at least one year, have at least a 2.0 GPA and have financial need are eligible for this \$400 scholarship. Students do not need to be full-time but must carry at least 3 semester credit hours in nursing.

**BREVARD HEART FOUNDATION, INC. -** Brevard County residents enrolled in the School of Nursing are eligible for this \$500-\$1,000 scholarship. Students in all options are eligible to apply but priority is given to senior students.

**BUSINESS/PROFESSIONAL WOMEN'S FOUNDATION -** The Foundation serves as a clearing house for three scholarships. Undergraduate nursing students who are U.S. citizens, women 25 and older in their junior or senior



year are eligible to apply for these need based scholarships of \$100-\$1,000. Students do not need to be full-time.

**FLORIDA NURSES' ASSOCIATION DISTRICT 21** - Nursing students who live in Broward County, have financial need and at least a 2.5 GPA are eligible for the \$300 scholarship.

**ASSOCIATION OF OPERATING ROOM NURSES, SOUTH FLORIDA** - Senior nursing students in their final semester who have a 3.0 GPA and plan to work in the operating room setting after graduation may apply for this scholarship.

**AMERICAN ASSOCIATION OF CRITICAL CARE NURSES** - The Association provides scholarships to registered nurses pursuing the BSN degree carrying at least a 50% academic load in their junior or senior year. The student must maintain a 2.0 GPA, be a member of AACN, and be currently employed and have worked one year of the last 3, in a critical care area.

**NURSE EDUCATIONAL FUNDS** - This scholarship is for U.S. citizens who are Registered Nurses pursuing the BSN degree. The nurse must belong to the American Nurses Association, be a full-time student and have financial need. The award ranges from \$2,000 to \$5,000.

**ONCOLOGY NURSING FOUNDATION** - To be eligible the student must be a Registered Nurse pursuing the BSN or MSN degree and have an interest in oncology nursing. The award ranges from \$1,000 up to \$2,500 for graduate studies.

**AMERICAN LEGION EDUCATION AND SCHOLARSHIP PROGRAM** - The Registered Nurse pursuing the MSN degree in Administration or Education is eligible for this \$2,000 award. In return, the nurse agrees to employment full-time in the lung and respiratory health care area after graduation.

**NURSING TUITION REDUCTION.** - A tuition reduction plan supported by the Florida Department of Education, allows twenty students in the Accelerated Nursing Option to enroll at the tuition rate of the State University System. To qualify the student must be a Florida resident and demonstrate financial need.

#### **Nursing Loans:**

**DADE COUNTY MEDICAL ASSOCIATION AUXILIARY** - Students enrolled in the School of Nursing for this \$1,500 to \$2,000 loan which considers need and academic achievement. The student agrees to practice in Dade County for one year after graduation. The loan is interest free if paid back within two years of graduation.

**HANSEL FUND** - Provides monies for students in financial need while enrolled in School of Nursing. Loans from both the Handsel and Treadway funds are repayable at 3% interest at the time of graduation or upon leaving school for other reasons.

**LOAN REPAYMENT PROGRAM** - Graduates who have unpaid educational loans and who work 3 years in a Qualified Health Facility may qualify



to have 85% of their loans forgiven. Qualified Health Facilities include, for example, federal, state, regional or county hospitals and community health centers.

**Service Payback:**

**ARMY/AIR FORCE R.O.T.C.** - Nursing students who are U.S. citizens, under 25 years old, have a 2.5 GPA, have at least two years of college left, and meet Army requirements are eligible to have tuition, books, fees, and a subsistence allowance paid for 2 to 4 years in return for 4 years of active duty or 8 years of reserve duty in the U.S. Army or National Guard as a nurse.

**NAVY** - Junior nursing students with a 3.0 GPA are eligible for 2 years of pay allowance as a seaman. In return the graduate will serve 4 years with the Navy.

**VETERANS ADMINISTRATION SCHOLARSHIP PROGRAM** - U.S. citizens enrolled in the School of Nursing full-time in the junior or senior year, are eligible for this scholarship which pays tuition, books, fees, and a stipend. One year of employment in a V.A. hospital after graduation is required for each year of funding.

**PARALYZED VETERANS ASSOCIATION OF FLORIDA, INC.** - Each year two senior nursing students at Barry receive \$3,000 scholarships from this organization. In return they agree to work for 12 months at a V.A. Medical Center on the spinal cord injury service. They learn about the special needs of and care required to help veterans with spinal cord injuries.

In addition to the financial aid sources listed above, there are smaller scholarships and loans available from various sources. Many hospitals also offer programs which provide money for tuition (usually at the senior level) in return for an agreement to employment at the hospital, usually one year of employment for each year of tuition support. Hospitals also frequently provide tuition support for employees pursuing the BSN or MSN degree. Students should first contact the Financial Aid Office. A Financial Aid advisor is available in the School of Nursing for additional assistance.

**Loans**

**PERKINS LOAN (FORMERLY NATIONAL DIRECT STUDENT LOAN-NDSL).** This is a loan made without interest to the student while in school and at 5% interest on an extended repayment period. The amount of the loan is based on financial need.

**STAFFORD LOAN (FORMERLY GUARANTEED STUDENT LOAN).** This program enables the student to borrow directly from a bank, credit union, savings and loan association, or other participating lender who is willing to make the educational loan to the student. The loan is guaranteed by a State or private nonprofit agency or insured by the Federal Government.



To apply, a student must be enrolled or have been accepted for enrollment at least half time in an undergraduate or graduate program.

**PLUS LOAN AND SUPPLEMENTAL LOAN FOR STUDENTS (SLS).** PLUS loans are for parent borrowers; SLS's are for students. Both loans provide additional funds for educational expenses and, like GSL's are made by a lender such as a bank, credit union, or savings and loan association. The interest rate is variable and repayment begins within 60 days of the disbursement of the loan.

**Loan Programs Subsidized by Friends of the University**

**GEORGE AND AMELIA COURY LOANS.** Through the generosity of George and Amelia Coury, low-interest loans can be made available to students from Dade County.

**MABEL SCOLLIN KELLEY TUITION FUND.** A loan fund of \$5,000 was willed to Barry University by Mrs. Mabel Kelley, who expressed the desire that a revolving fund be established in her memory and be made available to worthy students needing to borrow money to meet college expenses.

**LYNNE WAX MEMORIAL LOAN FUND.** Established in 1977, this program enables full-time students to receive short-term loans with no interest. The maximum period of repayment is not to exceed 12 months from the date the promissory note is signed. For further information, contact the Office of Financial Aid.

**WYOLENE NEAL TUITION FUND.** The loan fund, amounting to \$800, was founded in 1961 by the parents of Wyolene Neal and is available to a commuting student in the Miami area.

**JORDAN DAVIDSON FOUNDATION LOAN.** Through the generosity of Mr. Jordan Davidson, loans of varying amounts are offered to students who demonstrate financial need.

**BAL HARBOUR ROTARY LOAN FUND.** Loans are awarded by the Bal Harbour Rotary Club to students in the School of Nursing. To be eligible, students must demonstrate financial need, academic potential, be residents of Dade County and be registered in their junior or senior year.

**SISTER ALICE JOSEPH MOORE, O.P., LOAN FUND.** Provides loans for tuition on a ninety-day repayment basis. The fund is restricted to needy graduate or Junior and Senior undergraduate students in teacher education programs who have a grade point average of 3.0 or better. Approval of the Dean of the School of Education is required to authorize a loan.

**Employment**

**COLLEGE WORK STUDY PROGRAM.** Students who qualify on the basis of financial need may participate in the work-study program which is funded by the federal government. Various positions are available on campus for eligible students who may work to help meet some part of their college expenses.

**BARRY EMPLOYMENT PROGRAM (BEP).** The purpose of the program is to stimulate and promote the part-time employment of students attending Barry who need earnings from employment to help meet their costs of



attendance. To be eligible, students must be enrolled as full-time undergraduate students in "good academic standing" and "maintaining satisfactory academic progress". For more information students must contact the Office of Financial Aid.

#### **Veterans and Dependents**

The Federal Government has programs which provide some financial assistance for veterans and their dependents. Information may be obtained from local or regional Veterans Administration Offices or by calling the Office of Financial Aid.

**STANDARDS OF PROGRESS POLICY FOR VETERANS.** Satisfactory progress for veteran students will be indicated by a Satisfactory Progress Average (SPA), which is a variation of Quality Point Average (QPA). An SPA of 3.0 or greater for graduate students is satisfactory. An SPA of 2.0 or greater for undergraduate students is satisfactory; less than 2.0 for undergraduate students is not satisfactory. Any time a student's SPA is not satisfactory, he or she will be certified, in a probationary status, for only one additional semester. If, at the end of this additional semester, his or her SPA for that semester is still below the satisfactory level, the VA will be notified of the unsatisfactory progress. A veteran student who has been terminated with the Veterans Administration (VA) for unsatisfactory progress may petition the Registrar for readmission. The school will discuss with the student the problems relating to the unsatisfactory progress and recertify to the VA the student's enrollment if the cause of the unsatisfactory progress has been removed.

#### **Discounts**

**FAMILY TUITION REDUCTION PLAN.** Families having more than one full-time undergraduate student enrolled at Barry University at the same time pay full tuition for the first student, receive a \$500 per year reduction for the second student, \$1,000 per year reduction for the third student, and a \$1,500 per year reduction for the fourth student. Students eligible for the Family Tuition Reduction Plan must file a written request for a grant under this plan with the Office of Financial Aid.

**TEACHERS DISCOUNT.** Any full-time Florida teacher presenting a signed current contract, or a letter from his/her principal at the time of registration, is entitled to a 30% reduction in tuition unless tuition is paid through some type of grant or subsidy. The discount does not apply to undergraduate courses during the summer session.

**RELIGIOUS DISCOUNT.** Students who are members of a religious community are entitled to a 30% discount on tuition. The discount does not apply to undergraduate courses during the summer session.

**NURSING DISCOUNT.** Students enrolled in the Nursing program are entitled to a 30% discount on tuition if they are employed as full-time registered nurses, unless tuition is paid through some type of grant or subsidy. Students must show proof of full-time employment by presenting a letter from their personnel director.

SUMMER SCHOOL. Discounted tuition rates are in effect during the summer sessions, thus affording the student the opportunity for earlier graduation while taking summer classes at a discounted rate.

**No discount policy will apply to courses with already discounted tuitions below the regular graduate or undergraduate rates.**

**NO FINANCIAL AID IS AVAILABLE TO INTERNATIONAL STUDENTS. (Non U.S. citizens)**

**CITIZEN/ELIGIBLE NON-CITIZEN**

Students must be one of the following to receive Federal student aid:

- U.S. Citizen
- U.S. National
- U.S. Permanent resident with a valid I-151 or I-551 (Alien Registration Receipt Card)

If the student is not in one of these categories, please contact the Office of Financial Aid for further information.



# Academic Information

## GENERAL

### Knowledge of Regulations

Students are responsible for compliance with the regulations of the university and should familiarize themselves with the provisions of this bulletin distributed by the Office of Admissions; the Student Handbook, distributed by the Office of Student Affairs; posted official notes, and official instructions given to students. While Barry University provides academic advising, the responsibility for planning individual programs rests with the students. Students are expected to become familiar with the requirements of the University, of the Schools in which they are enrolled, and of their major disciplines.

### Policy on Release of Information

Barry makes every endeavor to keep the student's educational records confidential and out of the hands of those who would use them for other than legitimate purposes. All members of the faculty, administration and clerical staff respect confidential information about students which they acquire in the course of their work. At the same time, Barry tries to be flexible enough in its policies not to hinder the student, the institution, or the community in their legitimate pursuits.

Documents submitted by or for the student in support of his application for admission or for transfer credit cannot be returned to the student, nor sent elsewhere at his request. In exceptional cases, however, where another transcript is unobtainable, or can be secured only with the greatest difficulty (as is sometimes true with foreign records), copies may be prepared and released to prevent hardship to the student. The student should present a signed request. Usually the copy, marked as a certified copy of what is in the student's file, is released. In rare instances the original may be released and the copy retained, with a notation to this effect being placed in the file.

**Advisors**

Prior to registration, students are assigned faculty advisors. Students and advisors meet periodically to plan programs and evaluate progress. Each semester the registration form with the choice of courses must be approved and signed by the faculty advisor. The School Deans supervise the academic advising program and are available for consultation with students.

**Attendance**

Students are expected to attend classes and laboratory sessions. At the beginning of the semester, all instructors will define specific requirements for attendance in their classes as they relate to the course grade.

**Summer Sessions**

Summer sessions are held every year, one during May and June, the other in June and July. A student may earn six credits each session. Requirements for admission to the summer sessions are the same as for the regular academic year. Students matriculated at another college must have written permission from their Dean to take specific courses at Barry. No other academic credentials are needed for guest students.

**Withdrawals**

Students withdrawing from the University must do so officially by submitting a written notice of withdrawal to the Office of the Dean of their respective School. The effective date of withdrawal will be the date on which the notice is received by the Dean. Students withdrawing from courses(s) must do so officially by obtaining the course withdrawal form from either their advisor or the Office of the Registrar. The withdrawal form must be signed by the advisor and sent to the Office of the Registrar for final processing. An unauthorized withdrawal results in failure in course(s).

**Class Adjustments**

After registration, any changes in schedule (adding, dropping, or changing a section of a class) must be authorized by the student's advisor.

**Grade Reports**

Grade reports are issued at the end of each term. Any error in designation or omission of course should be reported to the Registrar within two weeks of receipt. No student may receive a transcript of credits or final grade report until his or her financial account has been settled.

**Academic Grievance and Appeals**

Students who have academic grievances are to follow the normal chain of command in seeking resolution of disagreements. For example, students having problems with faculty members must meet personally with the faculty member concerned. If an agreement cannot be reached, the student may then see the appropriate Dean. Failing resolution with the Dean, a student may file a Grade Appeal Form with the Chair of the Committee on Grades. It should be noted that letter grades (A,B,C,D,F) are the sole province of



the course instructor and cannot be changed to another letter grade by any administrator. A charge of bias or capriciousness in grading must be in writing and must be substantiated by reasonable evidence.

**Distribution Requirement Objectives:**

Distribution requirements are intended to achieve a wide range of learning outcomes in general studies. Specifically, they are designed to fulfill the following instructional objectives:

- To explore diverse modes of religious experience and expression with emphasis on Judeo-Christian tradition.
- To inquire into classic philosophic concepts in order to gain perspective into human issues, judgment and understanding.
- To demonstrate correct and effective writing.
- To demonstrate competence in organizational patterns, outlining, and research.
- To develop clear and persuasive oral expression.
- To develop an understanding of scientific concepts with emphasis upon scientific observation, scientific methods, and analytical thinking.
- To develop understanding of mathematical concepts and competence in quantitative skills.
- To develop the ability to analyze historical, political, or economic data with emphasis upon interrelatedness of events and processes.
- To examine and understand theoretical and applied aspects underlying individual and group behavior.
- To develop an appreciation and understanding of a genre or period of literature, or to develop skill in a foreign language.
- To develop an appreciation of the fine arts (art, music, theatre) from either a historical or creative viewpoint.

**Graduation Requirements:**

(1) Satisfactory completion of at least 45 credits of distributed coursework, including 9 credits in each of the following curricular divisions with a minimum of 3 credits in each of the ten subdivisions:

- |                                   |   |           |
|-----------------------------------|---|-----------|
| 1. Theology and Philosophy        | — | 9 credits |
| 2. Written and Oral Communication | — | 9 credits |
| 3. Science and Mathematics        | — | 9 credits |
| 4. Social and Behavioral Sciences | — | 9 credits |
| 5. Humanities and Arts            | — | 9 credits |

Total Distribution Requirements	45 credits
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The above distributed coursework must be selected from an approved list of courses from the areas below:

- |              |   |
|--------------|---|
| Fine Arts:   | Art, Music, Theatre                           |
| Humanities:  | English, French, Humanities, Spanish, Chinese |
| Mathematics: | MAT 101 or above                              |
| Sciences:    | Biology, Chemistry, Physics                   |

Behavioral Sciences: Anthropology, Criminal Justice, Psychology, Sociology

Social Sciences: Economics, Geography, History, Political Science

- (2) Satisfactory completion of a minimum of 120 credits with a cumulative average of 2.00 (C). Of the total, a minimum of 48 credits must be in courses numbered above 299. The last 30 credits and the majority of the major coursework must be completed at Barry University.
- (3) Individual schools may require satisfactory completion of an integrative experience in the major field(s) during the semester immediately preceding graduation. Students planning to attend graduate school may submit GRE scores to fulfill this requirement. Other examples of integrative experiences are written or oral comprehensive exams, internships, and field work.
- (4) Completion of a major. Specific requirements are given in the introduction to each of the 50 majors, and at least four major plans are available:
  - (a) A Single Major (40-60 credits)
  - (b) One Major (30-40 credits) and one or two Minors (20-30 credits in each)
  - (c) Two majors (30-40 credits in each) with or without a Minor (20-30 credits)
  - (d) One Major and Core Curriculum (60 credits) in the School of Business

Credits in the area of the major or minor beyond the maximum number of credits specified above will not fulfill the 120 credits required for graduation. All requirements for the degree must be completed before students take part in a graduation ceremony.

#### **DEGREES AND MAJORS**

In its undergraduate programs, the University offers the degrees of Bachelor of Arts (B.A.), Bachelor of Science (B.S.), Bachelor of Fine Arts (B.F.A.), Bachelor of Science in Nursing (B.S.N.), Bachelor of Professional Studies (B.P.S.), Bachelor of Liberal Studies (B.L.S.), and the Bachelor of Science in Technology (B.S.T.).

The University offers 50 undergraduate majors:

- Accounting (B.S.)
- Art (B.F.A.)
- Art Management (B.A.)
- Biology (B.S.)
  - Applied Biology
  - Marine Sciences
  - Pre-Dental Medicine
  - Pre-Medicine
  - Pre-Podiatric Medicine
  - Pre-Veterinary Medicine



Broadcast Communication (B.A.)  
 Chemistry (B.S.)  
     Pre-Pharmacy  
 Communication Arts (B.A.)  
 Computer Information Systems (B.S.)  
 Computer Science (B.S.)  
 Computers in Aviation (B.S.T.)  
 Criminal Justice (B.S.)  
 Cross-Cultural Program  
 Cytotechnology (B.S.)  
 Diagnostic Medical Ultrasound Technology (B.S.)  
 Economics/Finance (B.S.)  
 Elementary and Early Childhood (Primary) Education (B.S.)  
 English (B.A.)  
     Professional Writing  
 French (B.A.)  
 History (B.A.)  
 Hospitality Management (B.S.)  
 International Studies (B.A.)  
 Liberal Studies (B.A.) (Liberal Arts)  
 Management (B.S.)  
 Management Information Systems (B.S.)  
 Marketing (B.S.)  
 Mathematical Sciences (B.S.)  
 Medical Technology (B.S.)  
 Nuclear Medicine Technology (B.S.)  
 Nursing (B.S.N.)  
     Basic Option  
     R.N. to B.S.N./M.S.N. Option  
     Accelerated Option  
     Two-Year Transfer Option  
     L.P.N. to B.S.N. Option  
 Occupational Therapy (B.S.)  
 Philosophy (B.A.)  
 Photography (B.A.)  
 Political Science (B.S.)  
 Pre-Engineering Program  
 Pre-Law (B.A.)  
 Professional Studies (B.P.S.)  
 Psychology (B.S.)  
 Public Relations (B.A.)  
 Recreational Diving Management (B.S.)  
 Sociology (B.S.)  
 Spanish (B.A.)  
 Sport Management (B.S.)  
 Sports Information (B.S.)  
 Sports Medicine (B.S.)  
     Athletic Training Track  
     Exercise Science Track

Technology (B.S.T.)  
Telecommunication (B.S.)  
Theatre (B.A.)  
Theatre Management (B.A.)  
Theology (B.A.)  
Undecided

### **CHANGE OF MAJOR**

Students wishing to change their academic major or add another major to their academic program must submit a **Request for Change of Major** form with the office of the dean of the school in which the student is enrolled.

### **MINORS**

Minor concentrations are available in specific subject areas, as well as the following interdisciplinary areas: Peace Studies, Audio-Visual Production and Design.

Additional courses offered in the following area of study:

1. Anthropology
2. Geography
3. Humanities
4. Journalism
5. Nutrition
6. Philosophy
7. Physical Education
8. Physics
9. Secondary Teacher Certification
10. Speech

A number of courses and programs at Barry University provide for an interdisciplinary approach to education. Examples include Bio-Medical Ethics, Humanities, Liberal Studies, Pre-Law, International Studies, and Communication Arts.

### **STUDENT CLASSIFICATION AND STATUS**

An undergraduate student's classification is determined by the number of credits earned as follows:

Freshman	1 to 29 credits earned
Sophomore	30 to 59 credits earned
Junior	60 to 89 credits earned
Senior	90 credits or above earned

An undergraduate student's status is determined by the number of credit hours attempted in a given semester/term as follows:

Full-time	12 credits or above
Part-time	11 credits or below

### **DECLARATION OF MAJOR**

All students, including transfers, must declare a major at the completion of 60 credit hours.



### **CLASS LOAD**

The recommended academic load is 15-17 credits during a regular semester and 6 credits during a summer session. To attempt more than 18 or 6 credits, respectively, requires the recommendation of the faculty advisor, written approval of the appropriate Dean, and a 3.00 (B) average.

### **DEPARTMENTAL PROFICIENCY EXAMINATIONS**

Students who believe that they are qualified in any course offered by the University and are interested in placement and/or credit may petition to take a departmental examination covering the course, with the approval of the Dean, providing such an examination is offered. These examinations do not satisfy residency requirements. A fee of \$20.00 per credit must be paid to cover administrative costs.

### **INDEPENDENT STUDY**

Independent study may be an option for degree-seeking students in certain academic areas. Students must have plans for the research project approved by the academic advisor, the faculty member who will supervise the project, and the Dean. Students may register for no more than one such project each semester. Regular tuition charges are applied to independent studies.

### **TUTORIAL**

In unusual circumstances, an academic Dean may approve the offering of a course listed in the catalog on a one-to-one (tutorial) basis. Regular tuition charges apply to coursework taken as a tutorial.

### **SPECIAL TOPICS**

Contents of Special Topics classes will be determined by the individual departments as requested by faculty and/or students to fill specified needs or interests. Special Topics are designated by the course number 300.

### **GRADING SYSTEM**

Barry's undergraduate grading system, based on class work and examination, follows:

Superior achievement .....	A	4.00 honor points per credit
Above average.....	B	3.00 honor points per credit
Average.....	C	2.00 honor points per credit
Below Average.....	D	1.00 honor points per credit
Failure .....	F	No honor points
Credit .....	CR	Credit awarded for achievement at or above the D level; no honor points; not computed in GPA; equivalent to passing grade, A-D.
Progress.....	PR	No credit awarded; it indicates progress but does not mean satisfactory completion; not computed in GPA.

No Credit.....	NC	No credit awarded; achievement below D level; not computed in GPA; equivalent to F grade.
Incomplete .....	I	An incomplete grade must be made up within the semester following its receipt. It is the student's responsibility to arrange with the instructor for satisfactory completion of course requirements. Incomplete grades assigned in the semester of graduation will result in postponement of graduation. Upon completion of the course, the student must re-apply for the next graduation.
Withdrew .....	W	Granted to students who officially withdraw before the last five (5) weeks of a regular semester or the last two (2) weeks of the summer session. If a student officially withdraws within the last five weeks prior to final examinations of a regular semester and within the last two weeks of the summer session, a grade penalty is earned. Grade penalty means an F grade and the credits are computed in the grade point average.

**CHANGES IN WITHDRAWAL POLICY FOR FULL SEMESTER CLASS**

Weeks..... 2nd week to the 5th	=	W
..... 6th week to the 10th	=	WP or WF
..... 11th week to the 15th	=	F

**CREDIT/NO CREDIT**

Students may select one course per semester, in addition to Physical Education courses, subject to the usual maximum load limitations, for which the official record of performance shall indicate only whether or not course requirements are completed satisfactorily. A student on academic probation may not elect the CR/NC option.

This option may not apply to courses in the student's major/minor or to courses required for professional preparation. The student must elect the option at the time of registration; any changes must be made within the regularly-scheduled period for class adjustments. A student may not repeat



a course under the CR/NC option for which the previously earned grade was other than W.

A maximum of twenty-four (24) credits, in addition to physical education courses, may be taken under the CR/NC option (CLEP and Proficiency Examinations excluded). Credits earned under this option are applicable to the number of credits needed to fulfill degree requirements. Students must enroll for the Credit/No Credit option in all physical education courses; no letter grades are issued.

#### **GOOD STANDING — PROBATION — SUSPENSION**

A student is in Good Academic Standing if the cumulative grade point average (GPA) is 2.00 or above.

A student is on Academic Probation if the cumulative grade point average (GPA) falls below 2.00. The dean of the appropriate School may require a student on probation to register for a limited course load.

A student will be suspended who

- a) receives less than a 1.00 GPA during either of the first two semesters of attendance at Barry University;
- b) has completed fewer than 60 credits and receives a cumulative GPA below 2.00 for 3 consecutive semesters;
- c) has completed more than 60 credits and receives a cumulative GPA below 2.00 for 2 consecutive semesters.

A student who has been suspended for academic reasons generally may not petition the Registrar for readmission until one year has elapsed. The Registrar's Office must have the approval of the dean of the appropriate School to readmit a student following suspension.

A student suspended for any reason will be subject to those criterion and guidelines as specified in the university catalog in effect at the time of re-admission.

#### **OFF-CAMPUS ENROLLMENT/TRANSFER OF CREDITS**

Barry University students who wish to take courses at another college or university for the purpose of transferring the credits back to Barry must obtain prior written approval from the appropriate School Dean. Students who have attained junior status (60 credits) may not transfer credits from a community or a junior college. Once a student is enrolled as a degree-seeking student at Barry, no more than six (6) credits may be transferred toward a Barry degree. Courses taken through consortia are resident credits and are not counted as transfer credits. Only credits are transferred, not grades or grade point averages.

#### **GRADUATE CREDIT FOR QUALIFIED UNDERGRADUATE SENIORS**

Undergraduate students at the senior level with a high academic average in their field may be authorized to enroll in six graduate credits while completing undergraduate requirements. Such course work will require the writ-

ten approval of the Dean. This approval does not presume automatic admission into a graduate program. Undergraduate students who wish to enroll in graduate courses must follow the steps below:

- (1) Have a faculty advisor certify to the Dean that all undergraduate graduation requirements will be met.
- (2) Have the Dean file a letter with the Registrar prior to registration stating that the student will meet all requirements for a bachelor's degree and that the graduate credits (3 or 6) are over and above all undergraduate requirements.

### **REPEAT COURSES**

With prior written authorization from the appropriate Advisor and Dean, a student may repeat a course to improve the cumulative grade point average.

If a student has an F and repeats the course and receives an A, only the A counts. Quality points and credits attempted and earned for the second attempt are counted in lieu of those earned for the initial attempt. Though both attempts remain part of the student's permanent record, the cumulative grade point average will reflect only the grade earned on the second attempt. The Credit/No Credit Option cannot be exercised during the second attempt to remove a previous letter grade.

### **DEAN'S LIST**

To be eligible for the Dean's List, students must have achieved a grade point average of 3.50 taking at least twelve credits on a graded basis with no incomplete grades or grade lower than a C.

### **PRESIDENT'S LIST**

To be eligible for the President's List, students must have achieved a grade point average of 4.00 taking at least twelve credits on a graded basis with no incomplete grades.

### **GRADUATING WITH HONORS**

In order to qualify for graduation with distinction, a student must have taken a minimum of 56 credit hours at Barry carrying letter grades of A,B,C, or D, and must have maintained a grade point average of 3.50 or above. Only courses taken at Barry are computed in determining honors. The GPA will be rounded using the third decimal place.

For distinction, CUM LAUDE, a grade point average of 3.50 is required; for MAGNA CUM LAUDE, 3.70; and for SUMMA CUM LAUDE, 3.90.

### **ROTC**

Barry University students may enroll in Army or Air Force ROTC courses through cross-registration with the University of Miami. Eligibility for registration is determined by the ROTC Department at the University of Miami, in accordance with appropriate Armed Service Regulations. Academic credit is awarded by Barry, although an administrative fee may be charged by the



ROTC Department at the University of Miami. Uniforms, textbooks, and equipment essential to the ROTC program are furnished by the U.S. government.

ROTC scholarships are available from both the Army and the Air Force and cover anywhere from one to three years of college. Scholarships pay for the cadets' tuition, fees, books and provide \$100.00 per month spending money.

Further information about the ROTC Program is available through the Office of Admissions.

## **HONORS PROGRAM**

### **Purpose of the Program**

The Barry University undergraduate Honors Program is designed to add both breadth and depth to the educational experience of students in the Honors program. The Honors curriculum offers the intellectually curious student an opportunity to analyze problems, synthesize theories and actions, evaluate issues facing our complex society and develop leadership skills. The program gives superior students the opportunity to interact with faculty members whose knowledge and expertise, as well as their own willingness to explore non-traditional academic avenues, will enable these students to challenge the frontiers of their ability.

### **Qualifications**

Freshmen or transfer students who have a minimum combined SAT score of 1000, a minimum GPA of 3.50 (in high school or university, respectively), and/or obtain the approval of their academic advisors in consultation with the Honors Program director are invited to participate in the Barry University Honors Program.

Students who are Presidential Scholars or Focus on Excellence scholarship recipients are strongly encouraged to participate in the program, provided they meet the standards set.

### **Structure**

Students are expected to enroll in the Honors Program during each of their four years at Barry University, with the exceptions noted under "Requirements."

Qualified freshman students enroll in a freshman seminar during both fall and spring semesters. These seminars are team-taught, interdisciplinary explorations of critical issues. The intellectual environment permits students to focus on the responsibilities and challenges of the program, and helps to determine a student's willingness to commit him/herself to the entire program.

Sophomore students take special topic honors courses open only to honors students. These courses address a subject or area of concern within a traditional academic discipline.

Junior and Senior students enroll for "In-Course Honors" in regular university classes in which they undertake projects relating to those courses

under the guidance of the faculty member. A thesis, research study or project is expected to emanate from one of these courses.

By giving honors students a campus presence and by encouraging the cohesiveness of the group that enters as freshmen, the University hopes to foster a group identification and intellectual camaraderie that will endure long beyond their educational experience at Barry University.

### **Requirements**

To receive the designation of Honors Program participation on the final transcript, honors students must fulfill the following requirements:

- (1) A minimum of 24 credit hours in honors courses which, except for transfer students, must include the Honors Seminar sequence and two special topic honors courses;
- (2) A minimum of 12 credit hours in honors courses from outside the area of the major;
- (3) While the demands of particular academic programs may require individual adjustments, the suggested sequence for Honors courses shall be:
  - (a) Freshman Year - HON 101 and HON 102 (6 credit hours)  
An interdisciplinary Honors Seminar to be team-taught by two faculty members. The course sequence will fulfill an Honors Program requirement (see 1) and will also count towards general graduation requirements as elective credits;
  - (b) Sophomore Year - Two special-topic honors courses (6 credit hours)  
Each year faculty members will be invited to submit course proposals for special topic Honors courses from which the Honors Program Council will select a certain number to be offered. The special-topic honors courses will be given under the respective department's course code so that the courses may fulfill not only the Honors Program requirements but also, in some cases, part of a student's distribution requirements or major/minor requirements.
  - (c) Junior Year - Two in-course Honors courses (6 credit hours)  
Students will work with a faculty member on a special Honors Project/Assignment within the structure of a regular course offering. Honors students registering for in-course Honors must clearly mark with an "H" the special code column when registering for the course. In-course Honors will be given under the respective department's code so that the courses may fulfill not only the Honors Program requirements but also, in some cases part of a student's distribution requirements or major/minor requirements.



- (d) Senior Year - Two in-course Honors courses (6 credit hours) Will contain a supervised, original research component culminating with the Senior Honors Thesis Research Project which is a requirement for graduation from the Honors Program and which must be approved by the Honors Program Council. A committee will oversee the thesis/project: the faculty director, a second faculty member from the same discipline, and a faculty member of the Honors Program council from the appropriate School or Division.
- (4) A maximum of 12 transfer credit hours in Honors courses will be accepted towards graduation from the Barry University Honors Program from students transferring from Honors Programs in other colleges or universities.
- (5) Honor students can continue in the program if they maintain a minimum GPA of 3.25 and/or are recommended by their advisor and chairperson.

Students interested in the Honors Program can contact the director, Jesus Mendez, Ph.D.

### **BEC PROGRAM**

The BEC Program (Barry Early Credit), a cooperative program between Barry University and selected high schools, permits high school seniors and juniors to take college courses in their own high school at low cost. Courses are taught by carefully selected, qualified high school teachers who are trained, supervised, and evaluated by Barry faculty.

The BEC Program presently offers courses in biology, chemistry, computer science, English, French, humanities, mathematics, political science, and Spanish.

### **CROSS CULTURAL PROGRAM**

Under the Division of Academic and Instructional Services, Barry University offers a unique Cross Cultural Program that incorporates language and general education requirements. This program presumes a minimum preparation of two years of English as well as the usual conditions for University admission. Students in the program have freshman status and earn college credit.

### **ENTRY PROGRAM**

The Entry Program provides individualized instruction in basic English and Math skills, making it possible for the students to achieve their educational goals. Learning experiences are developed with consideration for individual learning styles, aptitude, prior knowledge and performance levels in subject matter and skills. All course work in the Entry Program is college level and most is included within the usual 120 credit hours required for graduation. Students in the Entry program are granted regular admission into the Uni-

versity's Division of Academic and Instructional Services and are prepared after successful completion of the program to continue in their selected major.

The Entry Program offers the opportunity to develop college-level skills in communications and math, necessary to ensure success in meeting the educational demands of the University. This goal is achieved not only through the course design but also through the coordination of the various components of the program.

The Entry Program is offered in a fifteen-week session that offers selected electives as well as Composition, Math, Critical Thinking and Orientation. English and Math placement depends on SAT scores and diagnostic testing.

### **THE UNDECIDED MAJOR**

Information about the undecided major is listed under Academic and Instructional Services.

### **CAMPUS INTERCHANGE PROGRAM**

Barry University is part of a campus-interchange program involving three fully-accredited colleges located in different geographic areas across the United States. A student may elect to spend a semester at any of the participating colleges any time from the second semester of the sophomore year until the last semester prior to receiving a degree from Barry. Tuition is paid to the home college; other expenses (including room and board, special fees, etc.) are paid on the campus where they are incurred. Students participating in this program will need to coordinate financial aid as well as academic programs. Information on campus interchange is available at the office of the School Dean.

Barry University has entered into this agreement with St. Thomas Aquinas College, Sparkhill, New York; Dominican College, San Rafael, California; and Aquinas College, Grand Rapids, Michigan.

### **SECOND BACHELOR'S DEGREES**

Students who have earned a bachelor's degree from Barry University or from another accredited institution may qualify for a second bachelor's degree under the following conditions:

- 1) formal notification must be filed with the Office of the Registrar;
- 2) the student must fulfill all admissions, prerequisite and course requirements in the second degree program;
- 3) at least thirty (30) semester hours in residence of upper-level credit over and above the requirements for the first bachelor's degree must be completed;
- 4) the student must achieve a cumulative grade point average of 2.00 or higher with 2.00 or higher in the second major;
- 5) the same degree from Barry University may not be awarded twice.



# Academic and Instructional Services

Mary Eileen McDonough, Ed.D., Dean

The Division of Academic and Instructional Services advises students in the **Undecided** major as well as the **Cross Cultural Program**, and the **Entry Program**. This office is also responsible for the BEC Program, the Learning Center, the Study Abroad Program, the CLAST Test, Placement Testing for new students, and the academic eligibility of student athletes.

## CROSS CULTURAL PROGRAM

The courses are bi-cultural in content and include credits in English, Social Sciences, and Philosophy. After successful completion of the Program, students are prepared to continue in their selected majors.

The English courses for international students are not English-as-a-second language courses. They are college-level classes in reading and writing designed to give non-native students language skills equivalent to those of North American freshmen. Students receive individual attention as well as tutoring sessions when needed.

While learning the language, students will fulfill graduation requirements in cross cultural courses. These courses will be taught in English but they will introduce the student to the culture and values of the United States.

After their first year, students will have earned credits in fulfillment of graduation requirements and will have attained the language proficiency to continue in their chosen major. Students admitted to the University under the Cross Cultural Program will be referred to an appropriate departmental advisor following successful completion of ENG 111, ENG 112, College Level Math, and the achievement of a minimum GPA of 2.00.

This flexible program can be adapted to needs of individual students.

The courses are shown below:

ENG 103a	Basic English: Composition/Reading
ENG 111/112	Freshman Composition and Techniques of Research
MATH	Mathematics (by placement score)

- ORI 100 Freshman Seminar
- ENG 105 American Phonetics

All courses will be taught in English.

### ENTRY PROGRAM

The Entry Program offers the opportunity to develop the necessary college-level skills in communications and math, to ensure success in meeting the educational demands of the University. This goal is achieved not only through the course design but also through the coordination of the various components of the program.

The Entry Program offers selected electives as well as Composition, Math, Orientation and Speech. English and Math placement depends on SAT scores and diagnostic testing. The courses of study in either case are shown below:

#### ONE SEMESTER SESSION

- ENG 103a Basic English: Composition/Reading or
- ENG 111/112 Freshman Composition and Techniques of Research
- Math Mathematics (by placement score)
- ORI 100 Freshman Seminar
- PHI 120 Critical Thinking
- SPEECH Speech and/or Elective

Dr. Eileen McDonough coordinates the Entry Program and serves as academic advisor to students in the Program. Students admitted to the University under the Entry Program will be referred to an appropriate departmental advisor following successful completion of ENG 111, ENG 112, College level Math and the achievement of a minimum GPA of 2.00.

### ORIENTATION

#### Course Description — Orientation Prefix: ORI

##### 100 Freshman Seminar (1)

A special one-semester course open to all freshman and new students. Goals of the course are to help students adjust to the University, develop positive attitudes about themselves and the learning process while learning skills essential for academic and personal success. (Elective)

##### 300 Senior Transitions (1)

A special one-semester course open to all second-semester junior or senior students. The goals of the course are to begin the adjustment process from the undergraduate academic life to graduate school or the world of work. (Elective)

### STUDY ABROAD PROGRAMS

Barry University offers a Summer Program at Manchester College of Oxford University. Oxford is one of the world's oldest universities famous for its tutor - student method of individualized instruction. Courses are taught by Barry faculty on site at Manchester College, and some classes are supplemented by Oxford faculty lectures and cultural outings. Three courses are offered each Summer. Students can choose a maximum of two. The academic program seeks to provide a balance between supervised study, cultural experiences and recreation.



A second Study Abroad Program is offered in Europe. Courses offered include international business and economics. These courses are based on classroom lectures as well as a rich schedule of professional visits including on-site guest lectures. The program in Summer 1990 includes travel to Jerusalem, Tel Aviv, Paris, Geneva, and Amsterdam.

The Director of Study Abroad is Dr. M. Eileen McDonough, Dean, Academic and Instructional Services.

### **THE UNDECIDED MAJOR**

Many students entering the University have chosen a major. However, most students have not. Research indicates that over 60% of all college freshmen change their minds about their major and their career aspirations at least once during their undergraduate years.

A liberal education is designed to provide the student with a broad general knowledge that can be channeled in many directions. Its primary purpose is to assist in building and broadening certain fundamental skills. These skills should include above all, the ability to write intelligently, to analyze and solve problems, to digest and understand a diverse range of data and to communicate effectively. Acquisition of these skills is critical to academic programs. These skills will also arm the student with the ability to understand and assume an active role in our complex society. Finally, the skills of a liberally educated individual will provide the most valuable commodity in our ever-changing job market flexibility. In the short time the student is pursuing his/her college education, some jobs will cease to exist and others will be created by technological and economic change. The student will be able to express himself or herself clearly and concisely through both written and verbal mediums and be able to identify problems and to determine solutions logically and creatively. As a liberal arts graduate, the student will be able to convert these skills into many viable jobs.

First these skills must be acquired, and therein lies the importance of good program planning. An academic schedule is as strong or weak, as challenging or repetitive as the student makes it. Freshman year is begun by concentrating on basic skills—English composition, math or computer science or logic, and foreign language. Verbal and analytical literacy are threaded through the entire four year program by taking philosophy, history, physical and biological sciences. The student should not be afraid to experiment with new areas of knowledge simply because of lack of exposure. The student should talk to the faculty, talk to academic advisers, and draw from the richness of his or her educational and personal experiences. Descriptions and course offerings of each department appear in the Catalog. An informed decision should be made about each course, each semester. A career and academic major will come into focus.

## LANGUAGE INSTITUTE FOR ENGLISH (LIFE)

Barry University offers an intensive and comprehensive English language program with the Language Institute for English, a division of Berlitz International. The program is offered in four week sessions with nine basic levels of instruction. Gary Markowitz is Director of the LIFE Program.



# Academic Health Science Center

## Division of Biological and Biomedical Sciences

Sister John Karen Frei, O.P., Ph.D.  
Associate Vice President for Academic Health Science Center;  
Dean, Division of Biological and Biomedical Sciences

The Academic Health Science Center was established in 1985 in order to integrate the life and health science programs into a cohesive academic unit from which to respond to the demanding needs of society for professionally competent scientists/health practitioners.

The undergraduate program offers a variety of career opportunities available through its majors. Special options available to qualified students include the MARC (Minority Access to Research Careers) Program and the University's institutional membership in the School of Field Studies which offers summer courses around the world.

### **ALLIED HEALTH PROFESSIONS — "3 + 1" PROGRAMS**

Advances in the prevention and diagnosis of disease, in therapy and rehabilitation, and the need to cope with new health and environmental concerns have increased demands for skilled personnel in allied health fields. Allied health professionals are highly trained individuals who perform tests in a variety of fields under the guidance of a pathologist or another qualified physician. A student entering these fields must possess certain attributes such as manual dexterity, reliability, moral character, and the ability to remain calm, courteous, and efficient under adverse conditions and stressful situations.

Barry offers a choice of four different "3 + 1" programs for those students seeking to meet the growing demands in these fields: Medical Technology, Cytotechnology, Diagnostic Medical Ultrasound Technology, and Nuclear Medicine Technology.

### **Medical Technology**

A student majoring in medical technology must meet the following requirements: Biology 112, 116, 230, 325, 330, 334, 341, 346. Also required as part of the program are Chemistry 111, 112, 243, 321; Math 109, 110, 211; Physics 151; and the distribution requirement. After successfully completing this 90-credit program, the student may apply for a twelve—fifteen month period of academic and clinical training in a School of Medical Technology approved by the American Medical Association and the American Society of Clinical Pathologists. The University will grant 30 semester hours of credit for the internship program. At Mt. Sinai Hospital, course credit assignment is as follows: Clinical Microbiology 7 credits, Immunology 7 credits, Clinical Chemistry 7 credits, Hematology 7 credits, Special Topics in Medical Technology 2 credits. Upon completion of the twelve-month internship, the student receives a Bachelor of Science degree with a major in medical technology. Students must apply individually for the year of clinical training. Schools of Medical Technology selectively admit qualified students on an individual basis.

### **Cytotechnology**

A student majoring in Cytotechnology must meet the following requirements: Biology 116, 230, 240, 253, 341, 346, 450, 451 (recommended). Also required as part of the program are 12 semester hours of Chemistry including Chemistry 152; 6 semester hours of Mathematics; a minimum of 4 semester hours of Physics (PHY 151 or 201-202) and the distribution requirement. After successfully completing this 90-credit program, the student must complete the course of instruction at an approved school of Cytotechnology. The University will grant 30 semester hours of credit for the internship program. Barry University is affiliated with Jackson Memorial Hospital. Upon completion of the 12-month internship, a Bachelor of Science degree will be awarded with a major in Cytotechnology. Students must apply individually for the year of clinical training. Schools of Cytotechnology selectively admit qualified students on an individual basis.

### **Diagnostic Medical Ultrasound Technology**

To facilitate the varying professional needs of the diagnostic medical sonographer, two tracks of study have been established within the diagnostic medical ultrasound technology major. Track 1 has been designed for the student whose aptitude and/or interest lies more heavily in the sciences. These students are required to meet the following requirements: Biology 116, 230, 325, 330, 334, 341 and 451. Also required as part of the program are Chemistry 111, 112, 243, 321; Mathematics 109, 110, 211; 4 semester hours of Physics; and the distribution requirements. Students in Track 2 are required to meet the following requirements; Biology 116, 220, 240, 253,



341 and 451; Chemistry 111, 112; 3 semester hours of Mathematics; a minimum of 4 semester hours of Physics (PHY 151 or 201-202); a minimum of 6 upper level semester hours of Psychology; and the distribution requirements. After successfully completing this 90-credit program the student must complete the course of instruction at an approved school of Diagnostic Medical Ultrasound Technology. The University will grant 30 semester hours of credit for the internship program. Barry University is affiliated with Mt. Sinai Hospital and Jackson Memorial Hospital. Upon completion of the 12-month internship, a Bachelor of Science degree will be awarded with a major in Diagnostic Medical Ultrasound Technology. Students must apply individually for the year of clinical training. Schools of Diagnostic Medical Ultrasound Technology selectively admit qualified students on an individual basis.

The first 90 semester hours of work based at Barry University may be completed on a full- or part-time basis.

#### **Nuclear Medicine Technology.**

To facilitate the varying professional needs of the nuclear medicine technologist, two tracks of study have been established within the nuclear medicine technology major. Track 1 has been designed for the student whose aptitude and/or interest lies more heavily in the sciences. These students are required to meet the following requirements: Biology 116, 230, 325, 330, 334, 341 and 450. Also required as part of the program are Chemistry 111, 112, 243 and 321; Mathematics 109, 110, 211; a minimum of 4 semester hours of Physics (PHY 151 or 201-202); and the distribution requirements. Students in Track 2 must meet the following requirements: Biology 116, 230, 240, 253, and 450; Chemistry 111, 112, and 321; 4 semester hours of Physics; and 21 semester hours of Computer Science; and the distribution requirements. After successfully completing this 90-credit program, the student must complete the course of instruction at an approved school of Nuclear Medicine Technology. The University will grant 30 semester hours of credit for the internship program. Barry University is affiliated with Mt. Sinai Hospital and Jackson Memorial Hospital. Upon completion of the 12-month internship, a Bachelor of Science degree will be awarded with a major in Nuclear Medicine Technology. Students must apply individually for the year of clinical training. Schools of Nuclear Medicine Technology selectively admit qualified students on an individual basis.

The first 90 semester hours of work based at Barry University may be completed on a full- or part-time basis.

#### **BIOLOGY**

##### **Biology Major (including Pre-Medical, Pre-Dental, Pre-Podiatry, Pre-Veterinary programs)**

Barry's undergraduate biology program provides students with the opportunity to prepare for a number of career goals. Possible alternatives include graduate study; teaching; medical, dental, podiatric and veterinary school; medical technology; and various careers in research.

A major requires a minimum of 35 credits including Biology 112, 116, 341, and at least one course from each of the following Core areas:

1. Growth and development: Biology 230
2. Cellular and molecular biology: Biology 325 and 330
3. Physiological and biochemical principles: Biology 334
4. Environmental biology: Biology 310 or 312
5. Biological Theory: Biology 440 or 475

Students planning to teach at the secondary level add Biology 476. Students majoring in pre-professional biology must minor in either chemistry or mathematics. In any event they must include the following: Chemistry 111-112 and 243-244; Math 109, 110 and 211. In addition, 8 semester hours of Physics are required. Biology majors are required to participate in assessment testing for evaluation purposes. Biology majors (including the marine science track) are required to achieve a satisfactory score on the Graduate Record Examination or on the Medical College Admission Test, the Dental Aptitude Test, or other approved standardized pre-professional examination.

Students who are very well qualified academically, and who wish to study Podiatric medicine at Barry University have the option of pursuing a 7-year BS/MS/DPM degree. Students with the following criteria will have guaranteed admission into the School of Podiatric Medicine:

- 1) SAT - 1100 or higher
- 2) High School GPA - 3.5 or higher
- 3) All science requirements taken in high school
- 4) A major in the Pre-Podiatry Program
- 5) A minimum cumulative GPA at Barry of 3.0
- 6) Satisfactory MCAT scores taken Spring of Junior year in college

#### **Biology Major (Marine Science Track)**

Barry's undergraduate Biology program, with a concentration in Marine Sciences, provides students with the opportunity to prepare for a number of career goals. Possible alternatives include graduate study; teaching; opportunities in governmental agencies and utilities; as well as various careers in research.

49 credit hours in Biology are required for this major including Biology 112, 116, 320 and courses from the following core areas:

1. Growth and development: Biology 225
2. Cellular and molecular biology: Biology 325 and 330
3. Physiological and biochemical principles: Biology 335
4. Environmental and marine biology: Biology 305, 310 and 435

Students in the Marine Science track are recommended to take: Biology 340, 400 and 440 or 475, and must also fulfill the following Chemistry and Math requirements: Chemistry 111, 112, 243, and 321; Mathematics 109, 110, and 211. A satisfactory score on an approved, standardized, pre-professional examination is also required.



**Biology Major (excluding Pre-Medical, Pre-Dental, Pre-Podiatry, Pre-Veterinary programs)**

Barry provides an undergraduate biology program providing students with the opportunity to prepare for a number of career goals. Possible alternatives include teaching, technical positions in laboratory and research centers; positions in business, industry, biological illustration, computer science and other areas requiring a biological background. Track I or Track II requirements may be chosen as listed.

**Track I**

40 credit hours in biology are required for this major including Biology 112, 116, and at least one course from each of the following core areas.

1. Growth and development: Biology 220 or 230
2. Cellular and molecular biology: Biology 253, 325 or 330
3. Physiological and biochemical principles: Biology 321 or 240
4. Environmental biology: Biology 310 or 312
5. Biological Theory: Biology 440 or 475

Students in this program must complete 12 additional semester hours of Biology electives.

Students in this program must include 12 hours in chemistry and 9 hours in mathematics. Physics 151 is recommended. Majors are required to achieve a satisfactory score on the Graduate Record Examination or MCAT. Graduation requirements include giving a senior presentation and providing a student activity form to the senior academic advisor.

**Track II**

31 credit hours in biology are required for this major including Biology 112, 116 and at least one course from each of the following core areas.

1. Growth and development: Biology 220 or 230
2. Cellular and molecular biology: Biology 253, 325 or 330
3. Physiological and biochemical principles: Biology 321 or 240
4. Environmental biology: Biology 310 or 312
5. Biological Theory: Biology 440 or 475

Students in this program must complete 4 additional semester hours of Biology electives.

Students in this program must include a minor in an approved area such as Business, Computer Science, Photography, Art, Telecommunications; 12 hours of Chemistry and 9 hours of Mathematics. Physics 151 is recommended.

**Biology Minor**

A minor in biology requires 20 credits including one lab course.

**Exercise Science Minor**

Students desiring a minor in Sports Medicine - Exercise Science, must meet the following requirements: SMD 320, 350, 360, 420, 440, and 460.

### **Human Biology Minor**

A minor in Human Biology requires 20 hours in Biology selected from: BIO 103, 116, 220, 240, 253, and selected 300 special topic courses.

### **Marine Science Minor**

A minor in Marine Sciences requires 20 hours in Biology including: Biology 112, 116, 225 and 330.

### **Other Divisional Requirements**

Students who have achieved junior status must maintain a 2.5 (C+) average in their major. Majors may not include toward graduation the credit for a biology course in which they have received a grade of D. The course may be repeated in order to raise the grade or it may be replaced by another course of the same kind, i.e., a Core course can be replaced by a Core course, an elective course can be replaced by another elective course. Students must have demonstrated progressive achievement in Mathematics and Chemistry by the end of the freshman year to remain in the division.

### **Course Descriptions — Biology Prefix: BIO**

#### **101-102 General Biology I and II (1-6)**

Organized according to modules; student may elect as many as three modules during one semester; content of the module may change each semester and is announced during the semester prior to registration; typical modules have included Cell Biology, Developmental Biology, Ecology, Florida's Environment, and Introductory Genetics.

#### **103 Biological Crisis (3)**

Current critical areas in biology; typical areas have included Energy Crisis, Disease Crisis, Alcoholism, Drug Addiction, Heart Disease and Mental Health.

#### **112 Botany (4)**

Plant forms: correlating structure, function, and environment. 3 hours lecture, 2 hours laboratory weekly. (\$35 fee)

#### **116 Zoology (4)**

Animal kingdom including basic facts and principles of the anatomy, physiology, embryology, evolution, and heredity of the major groups. 3 hours lecture, 3 hours laboratory weekly. (\$35 fee)

#### **202 Human Population Biology (4)**

Theoretical and applied aspects of population dynamics, with particular emphasis on the major physical, chemical, biological, social and economical factors that influence human populations. Three hours lecture weekly.

#### **220 Introductory Human Anatomy (4)**

Gross human anatomy with laboratory, including dissection of the mink. 3 hours lecture, 2 hours laboratory weekly. (\$40 fee)

#### **225 Comparative Anatomy (4)**

Gross comparative vertebrate anatomy with laboratory, including dissection of 5 representative vertebrates. 2 hours lecture, 4 hours laboratory weekly. Prerequisites: Biology 116 or equivalent. (\$40 fee)

#### **230 Human Anatomy (4)**

Gross human anatomy with laboratory, including dissection of the mink. 2 hours lecture, 4 hours laboratory weekly. (\$40 fee)

#### **240 Introduction to Human Physiology (5)**

Survey of the functions of the organ systems in the human body. 4 hours lecture, 2 hours laboratory weekly. Prerequisite or corequisite: Biology 220. (\$45 fee)

#### **245 Neuroanatomy (3)**

A comprehensive study of the human nervous system and the central role it plays in the innervation of both thought and action.



**247 Kinesiology (3)**

The study of biomechanical principles in the actions of muscles working together to produce movement, with emphasis on the compensatory movements that may occur when normal patterns are interrupted.

**253 Introductory Microbiology (4)**

Characteristics, physiology, pathogenicity of bacteria and viruses, with emphasis on organisms important in human disease; methods of cultivation, identification, and control of microorganisms. 3 hours lecture, 3 hours laboratory weekly. Prerequisite or corequisite: Chemistry 152. (\$45 fee)

**300 Special Topics (3)**

Content to be determined by the Division as requested by faculty and/or students to fill specified needs or interests. Prerequisite: Biology 101, 102 or 103 or divisional approval.

**305 Introduction to Oceanography (3)**

Review of major physical and chemical variables in the marine environment. 3 hours lecture weekly. Prerequisites: Chemistry 111-112; Physics 201-202.

**310 Marine Biology (4)**

Common marine organisms of the littoral seas, coral reefs, and open ocean; interrelationships and problems of adaptation and survival. 3 hours lecture, 3 hours laboratory weekly; field trips by announcement. Prerequisite: Biology 116. (\$30 fee)

**312 Ecology (4)**

Plants and animals in relation to their environments; population, communities, eco-systems, and behavioral patterns, utilizing many of the natural areas provided, such as coral reefs, hammocks, everglades. 3 hours lecture, 3 hours laboratory including field work and research projects. Prerequisite: Biology 112 and 116. (\$30 fee)

**320 Invertebrate Zoology (4)**

Structure, classification, and embryology of the major invertebrate metazoan Phyla with emphasis upon the marine forms. 2 hours lecture, 4 hours laboratory weekly. Prerequisite: Biology 116. (\$45 fee)

**325 Microbiology (4)**

Bacterial and viral classification, structure, physiology, genetics, pathogenicity and immunology; methods of cultivation, identification, and control of microorganisms. 3 hours lecture; 3 hours laboratory weekly. Prerequisites: Biology 112 or 116; Chemistry 152 or 243. (\$45 fee)

**330 Cell Biology (4)**

Biological processes in plant and animal cells and appropriate examples from viruses and bacteria, with emphasis upon the correlation between structure and function on the molecular level. 3 hours lecture, 3 hours laboratory weekly. Prerequisite: Biology 112, 116 and 253 or 325; Chemistry 152 or 243 (\$45 fee)

**334 Human Physiology (4)**

Comprehensive study of the functioning of the major organ systems of the human. 3 hours lecture, 2 hours laboratory weekly. Prerequisites: Biology 225 or 230, 330; Chemistry 243. (\$45 fee)

**335 Comparative Physiology (4)**

Comparative study of homeostatic mechanisms in animals with special emphasis on vertebrates. 3 hours lecture, 2 hours laboratory weekly. Prerequisites: Biology 225; Chemistry 243. (\$45 fee)

**340 Aquatic Botany (4)**

An examination mainly of pelagic marine and shelf metaphyta, brackish estuary, and freshwater plants, with emphasis on the life cycle, identification and structure of algae. 2 hours lecture, 4 hours laboratory weekly. Prerequisite: Biology 112. (\$45 fee)

**341 Genetics (4)**

Principles of heredity, from classical breeding experiments to current molecular and recombinant DNA techniques; emphasis on inheritance in virus, bacteria, Drosophila and humans. 3 hours lecture, 4 hours laboratory weekly. Prerequisites: BIO 112, 116; BIO 253 or 325; CHE 152 or 243 or permission of instructor. (\$40 fee).

**346 Parasitology (4)**

Morphology, taxonomy, identification, life history, host-parasite relationship, and control of protozoan, helminth, and arthropod parasites. 2 hours lecture, 4 hours laboratory weekly. Prerequisite: Biology 116 or equivalent. (\$30 fee)

- 347 Gross Anatomy (3)**  
Study designed to expose the student to the macroscopic aspects of human morphology. Completed dissection of a cadaver will be correlated with surface anatomy, radiology and other clinical information. Lecture and lab. (Restricted to OTR majors.)
- 352 Biochemistry (4)**  
Molecular structure in the cell, biological oxidations, selected biosynthetic pathways, molecular genetics. Same as CHE 352.
- 400 Marine Physiology (2)**  
A study of the effects of exposure to increased pressure and other factors on the functioning of the various organ-system. Prerequisites: Biology 225 or 230 or 240.
- 420 Summer Field Study (6)**  
An opportunity for the student to work in the marine field for both individual and group projects. Prerequisite: 16 s.h. Biology coursework. (cost variable)
- 435 Fisheries Biology (4)**  
Ecology, dispersal and modes of life of fishes; Adaptations by larvae and adults to their environment; Economic aspects of fisheries. 3 hours lecture, 2 hours laboratory weekly. Prerequisite: Biology 116. (\$45 fee)
- 440 Evolution (3)**  
Evidence for and the principles involved in the evolution of plants and animals, including man. Prerequisites: Biology 112, 116, 230.
- 450 Histology (4)**  
Microscopic study of animal tissues, with the relationship between structure and function stressed. 2 hours lecture, 4 hours laboratory weekly. Prerequisites: Biology 116 or equivalent; Biology 230; Chemistry 152 or 243. (\$35 fee)
- 451 Embryology (4)**  
Vertebrate embryology, including gametogenesis, fertilization, the formation of the germ layers, and organ systems. 2 hours lecture, 4 hours laboratory weekly. Prerequisites: Biology 116 or equivalent, Biology 230. (\$30 fee)
- 475 Seminar (3)**  
Presentation of reports, discussions, lectures, and papers on a selected topic(s) in biology.
- 476/576 Teaching of Biology in the Secondary School (3)**  
Problems confronting teachers of biology in the secondary school; organization of courses, sources of materials, textbooks, methods of teaching. Prerequisite: Divisional approval and candidacy in the School of Education.
- 480-485-490 Medical Technology (30)**  
Twelve- to fifteen-month period of academic and clinical training in a school of medical technology approved by the American Medical Association and the American Society of Clinical Pathologists.
- 481-482-491 Cytotechnology (30)**  
Twelve-month period of academic and clinical training in a school of cytotechnology approved by the American Society of Clinical Pathologists.
- 482-487-492 Nuclear Medicine Technology (30)**  
Twelve-month period of academic and clinical training in a school of nuclear medicine technology approved by the Council of Medical Education of the American Medical Association.
- 483-486-493 Diagnostic Medical Ultrasound Technology (30)**  
Twelve-month period of academic and clinical training in a school of diagnostic medical ultrasound technology approved by the Council of Medical Education of the American Medical Association.
- 259, 459 Independent Study (3) (3)**  
Opportunity for extensive study in areas of special interest to the student. Prerequisite: Divisional approval.
- 295, 395, 495 Research (Semester hours will be arranged)**  
Investigation of an original research problem of special interest to the student; independent execution of chosen experimental work or library research; under direction of selected staff member MARC scholars follow a special research program. (\$30 fee)



## **OCCUPATIONAL THERAPY**

Occupational Therapy is a health care profession that uses "occupation," meaning purposeful activity, as a means of preventing, reducing or overcoming physical, social, and emotional disabilities in people of all ages.

This weekend program is specifically designed to enable the working certified occupational therapy assistant to become a licensed professional.

### **Admission Requirements**

Applicant should be a Certified Occupational Therapy Assistant (COTA) with an Associate of Arts or an Associate of Science degree; must have had no grade lower than a C in prerequisite and/or occupational therapy courses; and must have maintained an overall G.P.A. of 2.50 (on a four point scale). Persons with work experience in the field will be given preference over those applicants lacking such experience. In addition, an A.A. or A.S. degreed person in a related health profession will be considered for admission.

### **Weekend Class Schedule**

This weekend program is built upon a modified trimester plan. Classes begin in the Fall and run every other weekend, for nine weekends. The Spring trimester begins in January and runs every other weekend, for nine weekends, until May. The Summer session runs every other weekend in June and July.

Classes run from 9 a.m. to 5 p.m. on Saturday and Sunday, and the student may attain 9 credits by attending full time.

### **Program Requirements**

Matriculating in the Academic Health Science Center, the student will be required to take 42 upper division credits in the Occupational Therapy Program, and up to 30 more credits in upper and lower division liberal arts coursework in order to fulfill the University's distribution requirements.

Already having associate degrees, students will be granted advanced standing of up to 64 credits, 18 of which can be for their COTA coursework. (Students with four years of college experience will receive additional credits as indicated by established university policy.)

### **Prerequisites/Distribution**

Advanced standing prerequisite courses for the program will be Neuroanatomy (BIO 245), Kinesiology (BIO 247), Gross Anatomy (BIO 347), Probability and Statistics (MAT 152), Abnormal Psychology (PSY 413), and biomedical ethics (PHI 453). However, additional courses may be required in order to meet the distribution requirements of the University if the student is lacking those courses. Because of the nature of the weekend program, these courses should be taken at the main campus.

### **Year One - Professional Program**

- Fall:**
- OTR 310 Overview of Occupational Therapy Practice (3)
  - OTR 315 Childhood and Occupational Therapy Practice (6)
- Spring:**
- OTR 320 Adolescence and Occupational Therapy Practice (6)
  - OTR 325 Medical Science for Occupational Therapy Practice (3)
- Summer:**
- OTR 330 Fieldwork in Occupational Therapy Practice - Pediatric (3)

### **Year Two - Professional Program**

- Fall:**
- OTR 400 Adulthood and Occupational Therapy Practice (6)
  - OTR 405 Advanced Treatment in Occupational Therapy Practice (3)
- Spring:**
- OTR 410 Maturity and Occupational Therapy Practice (6)
  - OTR 415 Synopsis of Occupational Therapy Practice (3)
- Summer:**
- OTR 420 Fieldwork in Occupational Therapy Practice-Adult (3)

### **Course Descriptions - Occupational Therapy Prefix: OTR**

#### **OTR 310 Overview of Occupational Therapy Practice (3)**

An exploration of the knowledge and theories regarding human development related to occupational therapy practice with emphasis on developing professional skills in activity analysis, treatment planning, and problem solving.

#### **OTR 315 Childhood and Occupational Therapy Practice (6)**

A study of the developmental stages of childhood; the most prevalent pediatric disorders; and the appropriate assessment and intervention strategies.

#### **OTR 320 Adolescence and Occupational Therapy Practice (6)**

A study of the multiple problems in the transition from childhood to adulthood; the most common causes of dysfunction in this age; and the appropriate assessment and intervention strategies.

#### **OTR 325 Medical Science and Occupational Therapy Practice (3)**

The study of significant disabilities and diseases most often encountered by the occupational therapist, their etiology, pathology, prognosis, and medical treatment.

#### **OTR 330 Fieldwork in Occupational Therapy Practice - Pediatric (3)**

Supervised full-time internship in various approved agencies following the first year of professional course work.

#### **OTR 359, 459 Independent Study (3) (3)**

Opportunity for extensive study in areas of occupational therapy specialization of special interest to the student. Prerequisite: Approval of the Program Director.

#### **OTR 400 Adulthood and Occupational Therapy Practice (6)**

A study of the "passages" the adult must negotiate to attain maturity; the health related disorders commonly associated with this age; and the appropriate assessment and intervention strategies.



**OTR 405 Advanced Treatment Techniques in Occupational Therapy Practice (3)**

A practicum in the most current treatment modalities used in occupational therapy practice to ameliorate dysfunction and maximize adaptation in work, leisure, and self-help skills.

**OTR 410 Maturity and Occupational Therapy Practice (6)**

The study of the elements which contribute to the aging process; the disabilities associated with aging; and the appropriate assessment and intervention strategies.

**OTR 415 Synopsis of Occupational Therapy Practice (3)**

A study of the managerial skills and organizational knowledge essential to professional practice. Integrates professional training and reinforces professional competencies.

**OTR 420 Adult Fieldwork and Occupational Therapy Practice (3)**

Supervised fulltime internships in various approved agencies following the second year of course work.

# Frank J. Rooney School of Adult and Continuing Education

Sister Marilyn D. Morman, O.P., Ph.D.,  
Associate Vice President for Academic Affairs and Dean

Patricia D. LaBahn, Ph.D., Associate Dean

Sister Loretta Mulry, IHM, Ed.D., Associate Dean

The degree programs in the School of Adult and Continuing Education are designed for adults who, because of family and work responsibilities, are unable to attend college classes in a traditional manner or at traditional class times. The purpose of the School is to make available to these students the same quality education upon which Barry University's reputation is founded. To allow students to complete a degree program at an accelerated pace, four ten-week terms are scheduled in which classes may be taken during the day, in the evening, or on weekends.

Students must meet the same graduation requirements as other Barry University students, including successful completion of at least 120 semester credits. However, they may choose from a number of learning options which allow for greater flexibility in program planning and scheduling. Each student works closely with an academic advisor to design a program which meets both the student's educational needs and the institution's requirements.

Adult students often have attained college-level learning through professional experience. The School of Adult and Continuing Education awards college credit towards the Bachelor of Liberal Studies degree and the Bachelor of Professional Studies degree, if the student can document in a portfolio college-level learning derived from professional experience. The amount of credit will vary with each student's professional background.

## **DEGREE PROGRAMS**

The following programs are offered to adult students through the School of Adult and Continuing Education:

Bachelor of Professional Studies (B.P.S.)

Bachelor of Liberal Studies (B.L.S.)

Bachelor of Science in Technology (B.S.T.)

Bachelor of Science in Technology in Computers in Aviation



Bachelor of Science (B.S.) with majors in:

Accounting  
Computer Information Systems  
Management  
Management Information Systems  
Marketing

#### **ADMISSION INFORMATION**

Application for admission to Barry University's School of Adult and Continuing Education is a process separate from the registration process and must be completed prior to course registration.

Students intending to pursue the Bachelor of Professional Studies degree or Bachelor of Liberal Studies degree must submit a portfolio as part of the degree requirements. Students must have a minimum of five years of full-time professional work experience upon submission of the portfolio.

#### **ADMISSION REQUIREMENTS**

Requirements and Procedures for Full Acceptance:

1. Interview with an Academic Advisor
2. Submit a completed application form with appropriate application fee;
3. Provide two official transcripts of credits taken at all colleges attended and, if applicable, CLEP, DANTES transcripts, or, if less than 12 hours of college credit has been earned, provide two official transcripts indicating graduation from high school or G.E.D. and
4. Achieve a 2.00 cumulative grade point average or better in all previous academic work.

Two official transcripts must be mailed directly from each issuing institution to Barry University's School of Adult and Continuing Education.

#### **Criteria for Provisional Acceptance**

Provisional acceptance is extended to those whose transcripts reflect less than a 2.00 cumulative grade point average at the time of application. A student enrolling under this option is limited to twelve credits in which a minimum cumulative grade point average of 2.00 must be achieved at Barry University. Upon successful completion of 12 credits with a cumulative grade point average of at least 2.0 at Barry, full acceptance will be granted. Those who are unable to complete the admission requirements (See Requirements and Procedures for Full Acceptance) at the time of application are limited to twelve credit hours at Barry University. To enroll in additional coursework, the student must submit all required credentials before subsequent enrollment.

#### **BACHELOR OF PROFESSIONAL STUDIES (B.P.S)**

The Bachelor of Professional Studies (B.P.S.) degree program is designed for students who choose to pursue a business-oriented program of study and to earn credit for college-level learning acquired through professional work experiences.

The degree is flexible in its design and thereby responds to diverse student interests and needs. The student may choose to aim for breadth of knowledge through an interdisciplinary curriculum or to focus on an area of concentration. Students may select an area of concentration in one of the following: Business, Computer Information Systems, Human Resource Management, and Telecommunication.

Students pursuing the Bachelor of Professional Studies degree must meet Barry University's distribution requirement and must select elective coursework in their chosen business field.

Students pursuing the Bachelor of Professional Studies degree must submit a portfolio as part of the degree requirement. The portfolio provides the mechanism for translating the documented learning experiences into Barry University credit.

The portfolio is comprised of three major components: a chronological resume, an autobiographical work history and documentation.

Prior to writing the portfolio, the student must attend a portfolio seminar. The portfolio may be presented

1. upon successful completion of 15 credit hours at Barry University, and
2. when the student can document a minimum of five years of full-time professional work experience.

The portfolio must be submitted at least 20 weeks prior to the student's anticipated date of degree completion.

The criteria used to assess college-level learning acquired through professional work experience include the nature and extent of supervisory, organizational, and managerial abilities. In-service training and seminars which enhance these abilities are considered. Also included in the criteria is evidence of creativity, initiative, interpersonal skills and community involvement.

Normally the portfolio will be assessed by the Portfolio Evaluation Committee eight to ten weeks after it is submitted. Upon evaluation, the student will be notified by the Dean of the credits awarded. At that time the student will be required to pay the appropriate fee.

Distribution Requirements .....	45 credits
Professional Experience .....	up to 45 credits
Electives .....	Variable
(Students may select courses in any subject area.)	

Area of Concentration (optional).....21 credits

Students who choose to earn an area of concentration will select elective courses in the following areas:

Business	Human Resource Management
Computer Information Systems	Telecommunication



University policies regarding an area of concentration are as follows:

1. An area of concentration consists of no less than 21 semester hours of appropriate and approved course work.
2. 15 of the 21 semester hours must be taken through Barry University and bear Barry University course prefixes and numbers.
3. 15 of the 21 semester hours must be in upper division courses, namely, 300 and 400 level courses.
4. Only one Special Topic may be included in the 21 semester hours. The Special Topic must be directly related by name and course content to the area of concentration.
5. The course title, prefix, and number will be the determinant for course work in an area of concentration, e.g., MKT 306 "Marketing Concepts and Applications."
6. Pre-requisites must be honored.

#### **BACHELOR OF LIBERAL STUDIES (B.L.S.)**

The Bachelor of Liberal Studies degree program is designed for students who choose to pursue a liberal arts program of study and to earn college-level credit for learning acquired through professional work experience.

Students pursuing the Bachelor of Liberal Studies degree must submit a portfolio as part of the degree requirement. The portfolio provides the mechanism for translating learning experiences acquired through documented professional experiences into Barry University credit.

The portfolio is comprised of three major components: a chronological resume, an autobiographical work history, and documentation.

Prior to writing the portfolio, the student must attend a portfolio seminar. The portfolio may be presented

1. upon successful completion of 15 credit hours at Barry university, and
2. when the student can document a minimum of five years of full-time professional work experience.

The portfolio must be submitted at least 20 weeks prior to the student's anticipated date of degree completion.

The criteria used to assess college-level learning acquired through professional work experience include demonstration of analytical capabilities, knowledge and understanding of the humanities and arts, effective communication skills, creativity, and community involvement. In-service training and seminars which enhance these abilities are also considered.

Normally the portfolio will be assessed by the Portfolio Evaluation Committee eight to ten weeks after it is submitted. Upon evaluation, the student will be notified by the Dean of the credits awarded. At that time the student will be required to pay the appropriate fee.

Distribution Requirements .....45 credits

Professional Experience ..... up to 45 credits

Electives ..... Variable

(Students may select courses in any liberal arts area.)

Area of Concentration (optional) .....21 credits

Students who choose to earn an area of concentration will select elective courses in the following areas:

- Humanities .....Combination of Art, English, Philosophy,  
Theology, Humanities, Speech, Theater,  
Language, and Music
- Social Sciences .....Combination of Geography, History, Political  
Science, Economics
- Behavioral Sciences .....Combination of Anthropology, Psychology,  
Criminal Justice, and Sociology
- Social Welfare .....Combination of Social Welfare, Biology,  
Psychology, and Sociology

### **BACHELOR OF SCIENCE (B.S.)**

A Bachelor of Science degree with a major in Accounting, Computer Information Systems, Management, Management Information Systems, or Marketing is available through the School of Adult and Continuing Education. Specific requirements for these degree programs will be found in the School of Business section of this Catalog. The Bachelor of Science in Technology in Computers in Aviation may also be found in the Andreas School of Business section of this catalog.

### **BACHELOR OF SCIENCE IN TECHNOLOGY (B.S.T)**

Underlying this program is recognition of the growing impact of technology upon the quality of life, and that the proper application of technology is critical to meeting current and emerging needs of society and its citizens. The specific purpose of this degree program is to provide students graduating with the Associate of Science degree in a technical area an opportunity to complete a four-year baccalaureate degree. The Bachelor of Science in Technology degree is an inverted degree program (2 + 2), in which the special technical courses are taken at a junior or community college during the student's first two years of study. Students admitted into this program enroll at Barry University in additional upper-level liberal arts courses and a cluster of business and computer science courses. The student graduates from Barry with a degree that is directed toward the practical use of management, technology, and computer principles that meet the objectives of industry, business, and the public.

#### **Admission Requirements**

Applicants for this degree program must have an Associate degree from a regionally accredited institution with at least 24 credit hours of coursework in a technical area acceptable to Barry University.

#### **Curriculum**

The student admitted into this program with an Associate of Science degree usually has completed at least fifteen liberal arts credits. Additional credits to be taken at Barry include philosophy, social science, humanities, communications, and theology. The remaining courses include a core of business and computer science courses and guided electives.



**Distribution Requirements.....45 credits**

**Computer Science Requirements..... 6 credits**

- CIS 180 Introduction to Computers
- CIS 315 Administrative Applications of Computers

**Business Core ..... 24 credits**

- ACC 201 Principles of Accounting I
- ACC 202 Principles of Accounting II
- ECO 201 Principles of Economics I
- ECO 202 Principles of Economics II
- MGT 305 Management Concepts and Applications
- MGT 352 Human Resource Management
- MGT 409 Organizational Communication and Behavior
- MKT 306 Marketing Concepts and Applications

**Upper Division Electives ..... 12-15 credits**

- BUS 339 Business Law I
- BUS 340 Business Law II
- BUS 371 Social and Ethical Issues in Business
- FIN 319 Financial Management I
- BUS 353 Leadership and Performance Development
- MGT 303 Management History and Theory
- MGT 400 Management Information Systems

**Technical Core ..... 24 credits**

(At least 24 credit hours of coursework in a technical area must be acceptable to Barry in transfer from a regionally accredited institution.)

**OFF CAMPUS LOCATIONS:**

In addition to classes on the Barry University campus, the School of Adult & Continuing Education offers classes in several Florida locations:

**Dade County**  
Adult Education Building  
11415 N.E. 2nd Avenue  
Miami, FL 33161  
Telephone (305) 899-3300

**Mailing Address**  
Barry University  
11300 N.E. 2nd Avenue  
Miami, FL 33161  
Toll Free No. (800)842-1000

**South Dade**  
13701 North Kendall Dr.  
#304  
Miami, FL 33186  
Telephone: (305) 387-8750

**Broward County**  
Atrium Executive Center  
Suite 4-S  
4801 S. University Drive  
Davie, FL 33328  
Telephone: (305) 948-3689 (Dade)  
(305) 434-8858 (Broward)

**Palm Beach County (South)**  
8177 West Glades Rd., #217  
Boca Raton, FL 33434  
Telephone: (407) 487-9230,  
(305) 426-0100

**Palm Beach County (North)**  
9121 North Military Trail, #200  
Palm Beach Gardens, FL 33418  
Telephone: (407) 622-9300

**Treasure Coast**  
P.O. Box 2494  
Fort Pierce, FL 34954  
(407) 468-6294

**Stuart**  
**Telephone: (407) 288-1555**

**Brevard County**  
Zayre Plaza  
41 E. Merritt Avenue  
Merritt Island, FL 32953  
(407) 453-6253

**Vero Beach**  
**Telephone: (407) 231-7879**

**Collier/Lee Counties**  
Key West Professional Center  
1342 Colonial Blvd., #38-B  
Fort Myers, FL 33907  
(813) 278-3041  
(800) 388-2279

### **SERVICEMEMBER'S OPPORTUNITY COLLEGE (SOC)**

The Barry University School of Adult and Continuing Education has been identified by the American Association of Community and Junior Colleges as a Servicemember's Opportunity College (SOC) providing educational assistance to active duty servicemen. A SOC institution offers the following benefits for servicemembers:

1. Use of admissions procedures which insure access to higher education for academically qualified military personnel;
2. Evaluation of learning gained through military experiences and academic credit awarded where applicable to the service member's program of study;
3. Evaluation of non-traditional learning and awarding of academic credit for such learning where applicable to the service member's program of study;
4. Evaluation of requests for inter-institutional transfer of credits and acceptance of such credits whenever they are appropriate to the service member's program and are consistent with the college's curriculum;
5. Flexibility to service members in satisfying residence requirements by making adjustments for military students who transfer when there are other assurances of program balances;
6. Designation of personnel with appropriate academic qualifications and experience to administer and supervise SOC-related activities and to develop policies and procedures appropriate to the scope of their voluntary-education programs;
7. Educational services for veterans.

### **THE LEGAL ASSISTANT INSTITUTE**

The Legal Assistant Institute was created twelve years ago to provide training in South Florida for the paralegal or legal assistant working under the supervision of a lawyer. According to the U.S. Bureau of Statistics, the legal assistant profession is the fastest growing career in the United States. Legal Assistants assume paralegal responsibilities as skilled members of a legal



team in law firms, banks, savings and loan associations, and insurance and governmental agencies. Their responsibilities cover a diverse range from legal research to office administration. The Institute offers three programs: the Certificate Program, the Internship Program and the Advanced Program.

The Certificate Program is a twelve-month program consisting of ten courses which include: Introduction to Law, Contracts, Legal Research, Legal Writing, Litigation, Business Associations, Real Estate and Real Estate Finance, Criminal Law, Estate Planning and Debtor-Creditor Relations. After the successful completion of 345 classroom hours, a Certificate of Achievement is awarded, qualifying the student to obtain employment as a Legal Assistant. The Institute has graduated an increasing number of Legal Assistants who have passed the National Certified Legal Assistant Exam and who have also been hired by some of South Florida's most prestigious law firms. At the University's Miami Shores campus, the Certificate Program begins in August and January. In Naples the program begins in August, in Coral Gables the program begins in January, and in Fort Lauderdale the program begins in October. Classes in all Fall programs are held every Tuesday and Thursday evenings and alternate Saturday mornings. In the Winter program (Miami Shores only) classes are held every Monday and Wednesday evening and alternate Saturday mornings.

The Institute also offers an optional Internship Program for students enrolled in the Certificate Program. The Institute also offers an optional Internship Program for students enrolled in the Certificate Program. The Internship Program assigns interns to several law firms and legal agencies, such as Legal Services of Greater Miami, Inc., Legal Aid Services of Broward County, and the Dade County State Attorney's office. Student-interns at the legal aid agencies gain legal experience in areas as diverse as family law and marital disputes, housing rights, education law, employment discrimination, consumer law and social security administration, serving the needs of the poor. The Dade County State Attorney's office provides the intern with opportunities to work as legal assistants in the areas of child support cases and criminal law. Student-interns receive in-house training and represent clients as legal assistants at hearings and provide intake interviewing and legal research. The Internships provide students with the unique opportunity to gain legal experience while still in school to better enable them to find legal employment after graduation.

In an effort to provide continuing education and training to practicing attorneys and legal assistants, the Institute offers the Advanced Program. Currently courses are offered in Computerized Legal Research, Immigration, Advanced Estate Planning, Law Office Management and Domestic Relations Practice. The curriculum is subject to change based upon the growing needs of Legal Assistants and Attorneys to specialize in different areas of the law. The Advanced Program meets on Saturdays and evening courses are scheduled according to the needs of the students. The courses are open to all Legal Assistants and Attorneys practicing in the South Florida area. Con-

tinuing Legal Education designation hours for attorneys have been approved for some of these courses by the Florida Bar.

## **CERTIFICATE OF PROFICIENCY IN CONFERENCE INTERPRETATION AND TRANSLATION**

The Certificate of Proficiency in Conference Interpretation and Translation is a one-year program which provides a theoretical as well as practical approach to conference and court interpretation and translation.

The curriculum is composed of the following courses: Simultaneous and Consecutive Interpretation, Translation, Legal Terminology and Court Interpretation.

This program is offered in Spanish and English. However, once the interpretation and translation skills have been mastered, they can be used in any other language.

Candidates have the alternative of obtaining a combined Certificate of Proficiency in Conference Interpretation and Translation or a Certificate of Proficiency in Translation alone for those focused in this specific area.

The program is coordinated by a professional Conference Interpreter with many years of experience in this field.

## **Course Descriptions**

In addition to the courses listed below, the School of Adult and Continuing Education offers courses from the School of Arts and Sciences and the School of Business.

### **Anthropology Prefix: ANT**

#### **308 Perspectives in Anthropology**

Analysis of the different fields of cultural anthropology which are integrated to create a holistic perspective of human behavior. Special emphasis is devoted to economics, religion, culture and personality.

### **Art Prefix: ART**

#### **317 Photography, The Camera**

A photography course for those with little or no experience answering questions about adjustable camera operation. Usage of films, shutter speed, aperture, lenses and filters will be explored through lecture, discussion, homework and field classes. (NO DARKROOM WORK). Student must have an adjustable 35mm camera.

#### **400 Ancient Greek Art**

Detailed analysis and examination of Greek Art from 2000 B.C. to the end of the Hellenistic Period. Sculpture, vase painting and architecture will be compared and contrasted with Art through the ages by connecting them with Greek Philosophy, mythology and history and their aesthetic concepts.

### **Biology Prefix: BIO**

#### **302 Human Biology**

A course designed for the non-science major with an interest in the structure and function of the human body. Course will explore the relationship between the form of the body and how this form relates to function. A "who you are and how you work" course with flexibility to allow the students interest to shape the emphasis.



**306 Introduction to Oceanography**

Brief coverage of the physical, chemical, biological, and geological aspects of ocean science.

**315 Principles of Tropical Plant Management**

Landscaping and appraisal of plants; structure; function and environment of plant form; focus on Florida indoor and outdoor plants; insecticides and landscaping design.

**Business Prefix: BUS**

**348 Personal Financial Planning**

A guide to personal finance for achieving financial objectives and making effective financial decisions. Topics include budgets, major purchases, use of credit and bank loans, insurance, real estate and investment in securities, taxes, and estate planning.

**350 Personal Income Tax**

A course in Federal Income Tax for individuals covering basic tax returns plus the most commonly used schedules.

**353 Leadership and Performance Development**

Analysis and interpretation of managerial and employee skills and abilities. Self-analysis will be used to develop a relationship between current work environments and managerial theory.

**462 Public Relations**

Study of various public relations media. Emphasis on cases and readings from professional journals. The historical and psychological aspects of public relations in context with and in relationship to various public media.

**English Prefix: ENG**

**318 Modern American Playwrights**

Focus on important American Playwrights from the 1940's to the present day. Emphasis will be on major styles and themes, and how their plays reflect the changes in American Society. Selections will be taken from the works of Tennessee Williams, Arthur Miller, William Inge, Lorraine Hansberry, Edward Albee, David Mamet and David Rabe.

**329 English Composition and Syntax**

Opportunity to develop facility with English syntax and to write more effectively by studying and practicing expository discourse. (Mandatory)

**Environmental Science: EVS**

**301 Consumer Applied Science**

An explanation of the basic concepts of inorganic/organic chemistry as they can be applied to understanding the various claims of many commercial products in the market place. Guidelines will be developed to assist the student in knowing how to make better consumer choices.

**306 Environment**

A conceptual approach to understanding the interrelatedness of natural processes at work in the environment. Application to local issues as well as broader problems and prospects will be made.

**400 Geology**

Minerals, rock classification, history of life, the concept of geologic times, the surface of the earth, the earth's interior, geophysical aspects of the earth and the theory of plate tectonics and sea-floor spreading.

**409 Ocean World**

Impact of the timeless sea on civilization and the impact of civilization on the sea will be investigated in this course. The oceans have influenced art and literature, scientific knowledge, industry and politics from ancient times to the present.

**Geography Prefix: GEO**

**402 Mysteries of the Earth**

Critical analysis of the great mysteries that have captured the popular imagination by a thorough examination of facts and hypothesis that surround such mysteries as the Legend of Atlantis, the Ruins of Stonehedge, UFO's, Easter Island statues, the Bermuda Triangle and the Egyptian Pyramids.

## **History Prefix: HIS**

### **301 Heroes and Happenings in History**

Students will observe the impacts of great personalities on mankind while determining the causes and results of great events, selected from the earliest civilizations to contemporary times.

### **314 Russian Cultural History**

An exploration of the Russian-Soviet historical and cultural traditions which subtly, but no less powerfully, influence the modern Soviet State. The course purpose will be to make Soviet domestic and international behavior more logical and internally consistent with its own context, not necessarily to justify those behaviors but to explain them.

### **418 Social History of the Middle Ages**

An investigation of medieval society from the perspectives of nobility, peasantry, city-dwellers, and clergy in an effort to reconstruct the lifestyles and mentalities of the Middle Ages.

### **443 History of the United States in the 20th Century I**

Topical-chronological treatment of the constitutional, economic and social history of the United States in the twentieth century; first semester terminates with the New Deal.

### **444 History of the United States in the 20th Century II**

Topical-chronological treatment of the constitutional, economic and social history of the United States in the twentieth century, second semester treats the events from 1940 to the present.

## **Management Prefix: MGT**

### **301 Collective Bargaining**

Detailed examination of the collective bargaining system with attention given to negotiation and the administration of agreements. special consideration will be given to the impact mergers, joint ventures, government regulatory agencies, the legal environment surrounding the negotiated process and other topics.

### **303 Administrative History, Theory and Practice**

An examination of the general field of administration with emphasis given to management and organization theories. Topics include the emergence of industrialism, schools of management thought, and the conceptual foundations of modern management.

### **309 Concepts of Organizational Behavior**

An examination of theories and concepts relating the individual to the organization. The course includes an analysis of the forces that influence behavior within an organization.

## **Music Prefix: MUS**

### **301 Music Appreciation**

Introductory course designed to develop perceptual listening skills and to acquaint the student with the evolution of masterworks.

### **321 History of Jazz**

Explanation of different periods of jazz and discussion of famous jazz musicians of each period — ragtime to contemporary.

## **Philosophy Prefix: PHI**

### **301 Contemporary Moral Issues**

Examination of current ethical issues such as discrimination, sexual conduct, pornography and censorship, abortion and euthanasia, women's rights, and capital punishment.

### **305 Problems in Philosophy**

Introduction to some of the basic issues in philosophy including free-will vs. determinism, the mind-body debate, the problem of God, and the nature of moral action.

### **307 Philosophy of Human Relations**

Concepts of sexuality and love from a philosophical standpoint. A historical overview of sex with contemporary theories by Freud, Marcuse.

### **311 Philosophy of Ethics and Values**

Nature of the human good, personal and social, moral habits (virtues & vices); ethical roots of cultural conflicts, the ultimate end of human nature; survey and critical analysis of moral systems, discussion of selected contemporary ethical issues.



## **Political Science Prefix: POS**

### **301 American National Government**

National government, its structure and function. A focus on public administration and legislative processes.

### **302 State and Local Government**

Roles of cities, counties, and states in our federal system as well as the interrelationships among them; analysis of the politics of local government; role of political parties and interest groups; particular attention devoted to local and county government, as well as the state of Florida.

## **Psychology Prefix: PSY**

### **301 Psychology of Drug & Alcohol Abuse**

General orientation to psychopharmacology; the relationship between behavior and the actions and effects of drugs; terminology of drugs and drug use; prevention and treatment programs; psycho-legal aspects.

### **329 Understanding & Coping with Stress**

Exploration of the roles of stress and illness; Immunology and Endocrinology with help in evaluating one's own level of stress. Effective techniques for alleviating stress and features the development of the holistic health movement are described. Meditation, Autogenic training, bio-feedback, nutrition and exercise to prevent disease are highlighted.

### **330 Leadership Training and Human Relations**

Analysis of the human factors in organizations and small groups. Structured and non-structured activities will be used to develop group and personal effectiveness. Course objectives include: leadership styles, communication, problem-solving, decision-making, membership, establishing goals, and group norms.

### **331 Counseling Techniques for Managers**

Overview of counseling techniques that should be useful for managers and others. The course will draw from a variety of disciplines, including sociology, psychology, and management theory.

### **410 Group Dynamics and Decision-making**

Exploration of group intimacy, solidarity of groups, group problem-solving, the individual within a group, leadership development and splinter group formations.

### **414 Dynamics of Family Living**

This course will explore the conditions necessary for growth and development. It will cover the "Passages" of life; sexuality; intimacy; life styles and aging.

## **Sociology Prefix: SOC**

### **301 American Family**

Study of the history, present agonies and future of the American Family as an institution.

### **305 Issues in Culture**

Topical course to determine the role that culture has played in developing and influencing man's behavior. Our perceptions of economics, religion, family life, employment, aging, law and numerous other aspects of culture will be studied and discussed.

### **309 Roots of Civilization**

Study of examination of numerous civilizations and societies to obtain a greater appreciation of the diversity in humankind's response to solving the problems in our unique world. Students will endeavor to recognize the processes by which groups of people civilize themselves, and to identify the particular bases of power operant in each society, i.e., artistic skill, scientific knowledge, technology, military prowess, language skill, tradition/ancestry. etc.

### **310 Focus on Nutrition/Wellness**

Exploration of the basis concepts of nutrition science, guidelines for making food choices, and some techniques for meeting the challenge of the information explosion.

### **415 Women in Contemporary Society**

Historical development of women as a basis for their distinctive position in society today. Emphasis is placed on their lateral/horizontal progress in the realms of the economy, society and cultural development. Gender definition and dynamics of the patriarchal system are examined.

**417 Sociology of Death and Dying**

Focus on death as an event in salvific history, based upon cross-cultural analysis of the nexus between the meaning of life and death's place within it.

**Social Welfare Prefix: SW**

**336 Social Welfare as a Social Institution**

Beginning course in the social welfare sequence, introducing the student to the field of social welfare from historical, political, program, policy and service points of view; initial identification with the field of social welfare, and knowledge of contribution of social welfare professions. Prerequisite to all other social welfare courses.

**401 Social Welfare Policies and Services I**

Policies and services relevant to social welfare and the development of analytic skills in examining such policies and services; aims at strengthening the student's commitment to the profession's responsibility to promote programs that prevent and ameliorate social problems.

**451 Socio-Cultural Theories**

Companion course to Personality Theories and Human Behavior; concentrates on larger social systems such as small groups, formal organizations and cultures, and their effect on human behavior.

**452 Personality Theories and Human Behavior**

Physical, social, and emotional development of individuals; major areas of study in each phase of maturation behaviors and coping strategies, optimal conditions for growth of the healthy personality, and the dynamics and influence of interpersonal transactions.

**Speech Prefix: SPE**

**303 Voice & Articulation**

A course designed to help each student speak more expressively with greater vocal and variety and clarity. Each student will receive a complete voice and diction analysis and will work both individually and in groups to achieve effective voice production and correct individual speech problems.

**305 Theories of Communication**

Overview of theory of communication. Emphasis on organizational communication, small groups and public communication in organizations.

**402 Oral Communication**

Practical study designed to develop effective listening, speaking and confrontation skills, use and interpretation of body language.

**403 Oral Interpretation**

Oral interpretation focuses on one of the loveliest of musical instruments, the human voice, and on the body of literature to which the voice can give meaning. Course activities will include study and analysis of various types of literature and the demands that each makes of a reader/aping and tuning exercises for the vocal instrument; practice in oral reading; and development of criteria for evaluation.

**Theatre Prefix: TH**

**304 Creative Dramatics**

A course to develop confidence, creativity, spontaneity, and other communication skills. It will include practice in improvization, role playing, and character development for personal growth and enjoyment, as well as some study of drama for cultural enrichment.

Descriptions for other courses offered through the School of Adult and Continuing Education will be found under the designated School.



# School of Arts and Sciences

Shirley J. Paolini, Ph.D., Dean

Laura S. Armesto, Ph.D., Assistant Dean

The School of Arts and Sciences is distinctive through its concern for value-oriented programs, its promotion of the traditional liberal arts, and its response to varied careers, interests, and needs. Through its academic programs and co-curricular activities, the School provides enriching aesthetic, cultural, and intellectual dimensions to the University, with a wide variety of majors and programs. It includes traditional as well as career-oriented courses, creative activities, and an honors program.

The School includes nine departments:

- Communication
- English and Foreign Languages
- Fine Arts
- Mathematics and Computer Science
- Physical Sciences
- Psychology
- Social Sciences
- Sport and Recreational Sciences
- Theology and Philosophy

The School offers 29 undergraduate majors as well as additional courses in ten support areas. Besides this diversity of disciplines, the School also encourages a variety of approaches and methodologies: modules, team-teaching, interdisciplinary courses, independent study and research, lab and studio work, internship, recitals, exhibitions, film and text courses.

**MAJORS**

Art  
 Art Management  
 Broadcast Communication  
 Chemistry  
 Communication Arts  
 Computer Science  
 Criminal Justice  
 Engineering (Dual Degree)  
 English  
     Professional Writing  
 French  
 History  
 International Studies  
 Liberal Studies  
 Mathematical Sciences  
 Philosophy  
 Photography  
 Political Science  
 Pre-Law  
 Psychology  
 Public Relations  
 Recreational Diving Mgmt.  
 Sociology  
 Spanish  
 Sport Management  
 Sports Information  
 Sports Medicine  
     Athletic Training Track  
     Exercise Science Track  
 Telecommunication  
 Theatre  
 Theatre Management  
 Theology (Religious Studies)

**DEPARTMENT**

Fine Arts  
 Fine Arts  
 Communication  
 Physical Sciences  
 Communication  
 Mathematics and Computer Science  
 Social Sciences  
 Physical Sciences  
 English & Foreign Languages  
  
 English and Foreign Languages  
 Social Sciences  
 Social Sciences  
 School of Arts & Sciences  
 Mathematics and Computer Science  
 Theology and Philosophy  
 Fine Arts  
 Social Science  
 Social Science  
 Psychology  
 Communication  
 Sport & Recreational Sciences  
 Social Science  
 English and Foreign Languages  
 Sport & Recreational Sciences  
 Sport & Recreational Sciences  
 Sport & Recreational Sciences  
  
 Communication  
 Fine Arts  
 Fine Arts  
 Theology and Philosophy

**ANTHROPOLOGY****Course Descriptions — Anthropology Prefix: ANT****243 Cultural Anthropology (3)**

Comparative cultural behavior explored through theoretical constructs and ethnographic data; social organization, linguistics, psychological anthropology, and technology.

**300 Special Topics (3-6)**

Content to be determined by the Department according to the faculty and specific needs, and/or interests of the students.

**ART**

The art program prepares majors for their future lives as professional artists or art educators and for advanced study at the graduate level. The classes are designed to foster individual growth in an integrated academic and studio



environment. Courses are also recommended for non-majors who wish to enrich their lives and develop new skills.

The Art major is required to study ART 101A, 101B, 102A, 102B, 209, 210, and 399. Six art credits count toward the required liberal arts distribution. In their final year, art majors participate in a Senior Exhibition in fulfillment of the requirement for an integrative experience. Juniors are required to pass a faculty review before they begin preparing for their senior exhibition. The minimum grade of C is required in all major courses.

The University reserves the privilege of retaining one student work for the purpose of exhibition or as part of the Department's permanent collection. The University also reserves the right to reproduce and publish student works.

### Program of Study

	B.F.A.	B.F.A. (Education)
Art History	12	9
Art Studio	54	45
Liberal Arts Distribution	39 (45)	39 (45)
Electives (Non-Art)	15	-
Certification Requirements	-	28
	120 Credits	121 Credits

Art Minor 21 Credits in Art Studio and/or Art History

B.A. Photography (see PHOTOGRAPHY)

Photography Minor - 21 credits in Photography.

### ART MANAGEMENT

The B.A. in Art Management provides course work and experience directed towards managing an art facility. The program includes a business minor and credits in mathematics and communications. The integrative experience is an internship (ART 499). The minimum grade of C is required in all major and minor courses.

The program of study is as follows:

Major (36 credits)

ART 101A, 101B, 209, 210, 399, 499, Studio Electives (12 credits), Art History Electives (6 credits).

Corequisites (15 credits)

CIS 180	Introduction to Computers
MAT 108	Precal Math for Business
MAT 152	Elementary Probability and Statistics
COM 200	Introduction to Mass Media
COM 390	Principles of Public Relations

Minor in Business (21 credits)

BUS 181	Concepts of Business Behavior
ACC 201	Financial Accounting
ECO 201	Principles of Economics
MGT 305	Management Concepts and Applications
MKT 306	Marketing Concepts and Applications
FIN 319	Financial Management
MGT 409	Organizational Communication or MKT 382

**Course Descriptions — Art Prefix: ART**

**101A Basic Drawing (3)**

Beginning theory and application of basic drawing materials, techniques, and concepts. (Special Fee.)

**101B 2-D Design (3)**

Introduction to basic two-dimensional design concepts, theory and techniques through study of principles and elements of art. Color theory and linear perspective will be included. (Special fee)

**102A Intermediate Drawing (3)**

The study of the structure, anatomy, and expressive design of the human form using a variety of drawing media and techniques. Prerequisite: ART 101A. (Special fee)

**102B 3-D Design (3)**

Introduction to the theory, concepts, and creation of three-dimensional art through a variety of building processes, materials, and techniques. Prerequisite: ART 101B. (Special fee)

**141 Basic Handbuilding (3)**

Introduction to clay as an art medium; handbuilding techniques of clay forming, including basic glazing and firing instruction. (Special fee)

**203 Basic Photography (3)**

Introduction to the camera and black and white darkroom procedure; emphasis on technique rather than aesthetics. 35 mm adjustable camera required. Limited number of rental cameras available. (Special fee.)

**205 Basic Graphic Design (3)**

Introduction to graphic design using type and visual symbols. (Special fee)

**209, 210 History of Western Art (3) (3)**

Art from ancient civilization to the Renaissance, the Baroque period through the nineteenth century and contemporary trends as influenced by the present era.

**241 Basic Potter's Wheel 2 (3)**

Introduction in the use of the potter's wheel as an important forming technique of the potter/artist. (Special fee)

**242 Intermediate Potter's Wheel (3)**

Refinement of wheel throwing and handbuilding techniques; greater participation in kiln firing cycles. Prerequisite: Art 241. (Special fee)

**261 Beginning Painting (3)**

Introduction to the painting medium with emphasis on the seeing and painting of value, color, and composition. (Special fee)

**300 Special Topics (3)**

Subject content to be determined by the Department to fill specified needs or interests. (Special fee for Studio courses.)

**303 Intermediate Photography (3)**

Projects involving abstractions and character-portraits allow the student to creatively refine techniques of basic photography; new areas such as hand coloring, toning, high contrast ortho film and solarization are explored. Prerequisite: Art 203. (Special fee)

**304 Color Photography (3)**

Introduction to printing color enlargements from color negatives using automated EP-2 processing. Emphasis on creative usage of color and quality color printing techniques. Prerequisite: ART 303. (Special fee)



- 307 Audio Visual Production I (3)**  
Operation of programmable two-projector dissolve unit with sound synchronized narration, music/sound effects to produce a complete slide/sound presentation. Prerequisite: ART 203. (Special fee)
- 308 Audio Visual Production II (3)**  
Advanced techniques in AVP with additional emphasis upon conception research and production of professional quality presentations. Prerequisite: ART 303 and ART 307. (Special fee)
- 311 History of Art/Photography (3)**  
An overview of the evolution of photography from its invention in the 1800's up to contemporary experimental work.
- 314 Art Appreciation (3)**  
A broad introduction to the nature, vocabulary, media, and history of art, using examples from many cultures.
- 315 Photojournalism (or JOU 315 ) (3)**  
Emphasis upon direct visual communication and effective photographic documenting of events. Prerequisite: Art 203. (Special fee)
- 341 Glaze and Clay Calculation (3)**  
Investigation of the properties of various claybodies and their relationship to form, plus study of different glazes and their temperature ranges. Prerequisite: Art 242 (Special fee)
- 342 Intermediate Handbuilding (3)**  
A continuation of study of handbuilding techniques in clay. Emphasis on sculptural refinement of the medium. Prerequisite: ART 141 (Special fee)
- 359, 459 Independent Study (1-6)**  
Opportunity for research in areas of special interest to the student. Prerequisite: Dean and Departmental approval. For Majors only. (Special fee)
- 361 Intermediate Painting (3)**  
Intermediate study of the painting medium with emphasis on concepts, styles, and techniques. Prerequisite: ART 261. (Special fee)
- 376 Art in the Elementary School (3)**  
Aims and procedures in the development of a creative expression in elementary school children; includes practice and experimentation in various suitable media. (Special fee)
- 399 Art Management (3)**  
In-depth study of professional practices of both art managers and artists in promoting and marketing artwork. Topics include funding, gallery contracts, writing resumes and biographical data, slide documentation, formal preparation of artwork for exhibition, etc. Prerequisite: Junior status.
- 403 Advanced Photography I (3)**  
First half of semester is devoted to color posterization; during the latter half, an individual project is offered; student may then explore personal aesthetic or technical interests through his or her photographic series. Prerequisite: Art 303. (Special fee)
- 404 Advanced Photography II (3)**  
Advanced student works on a creative independent project; emphasis on the development of one's personal form of expression within the photographic arts, whether through conventional black and white, color, non-silver processes, or even an inter-disciplinary merging of the other media offered in the Fine Arts Department. Prerequisite: ART 403. (Special fee)
- 407 View Camera Photography (3)**  
Projects provide exploration of the view camera plus introduce studio/strobe lighting techniques. Student's photographic experiences are broadened through take-home access to the university's view cameras. (Special fee)
- 409 History of Art, the Renaissance (3)**  
Art and architecture of the Renaissance in relation to the political and social structures of the 15th and 16th centuries in Italy.
- 410 History of Art, 19th Century European Art (3)**  
Neoclassicism, Romanticism, Realism, Impressionism, and Post-Impressionism in European art and architecture studies in relation to political and intellectual developments.

**414 Color Photography - Ciba (3)**

Printing color enlargements from color transparencies (slides) using automated cibachrome processing. Emphasis on creative usage of color and quality color printing techniques. Prerequisite: ART 303 (Special fee)

**441 Advanced Ceramics (3)**

Advanced projects and techniques with instruction on an individual basis to suit the student's needs. Prerequisite: Art 341 or 342. (Special fee)

**461 Advanced Painting (3)**

Advanced painting problems with special emphasis on the development of individual expression, concept, materials, and philosophies; instruction is on an individual basis to suit the students needs. Prerequisite: ART 361. (Special fee)

**462 Advanced Drawing (3)**

Advanced drawing problems with special emphasis on the development of individual expression, concept, materials, and philosophies; instruction is on an individual basis to suit the students needs. Prerequisite: ART 102A. (Special fee)

**476 Methods in Art Education (4)**

Philosophy, curriculum, and methods pertinent to the development of creative expression for students in grades 1-12; practice in formulating aims, preparing materials, demonstrating processes, evaluating and displaying work done in the classroom situation. Required for certification in grades K-12. Prerequisite: Candidacy in the School of Education. (Special fee)

**487 Seminar (3)****492 Workshop (1-3)****499 Internship (3)**

On-site experience in a commercial gallery, museum, or approved organization. Prerequisites: Senior status, department and dean's approval. Requires a minimum of 120 hours.

**BROADCAST COMMUNICATION**

The B.A. in Broadcast Communication will be of interest to those students considering a career in some aspect of radio, television, cable and related media fields such as corporate media. Major requirements are designed to provide the student with a strong core of knowledge in all facets of the profession with electives adequate to enable the individual to pursue one or more areas of specific interest.

**Distribution Requirements:****45 hours****Major Requirements:**

COM 200	Intro to Mass Media	3 hours
COM 201	Survey of Communication	3 hours
COM 204	Writing for the Media	3 hours
COM 214	Television Production	3 hours
COM 301	Practicum	2 hours
COM 393	Verbal Message Encoding	3 hours
COM 491	Television Directing	3 hours
COM 495	Communication Law	3 hours
COM 496	Electronic Media Advertising	3 hours
COM 497	Media Management	3 hours
COM 498	Broadcast Journalism	3 hours
ART 205	Intro to Graphic Design	3 hours
		<hr/>
	<b>TOTAL</b>	<b>35 hours</b>



**Guided Electives:**

Courses in COM, JOU, ART, BUS, CS, MUS, THE, SPE, TEL  
or EDU (as approved) ..... 9 hours

**Electives:** ..... 31 hours

**Degree Total:** ..... 120 hours

**Broadcast Communication Minor**

COM 200	Intro to Mass Media	3 hours
COM 201	Survey of Communication	3 hours
COM 214	Television Production	3 hours
COM 491	Television Directing	3 hours
COM 495	Communication Law	3 hours
COM 496	Electronic Media Advertising	3 hours
COM 497	Media Management	3 hours

TOTAL ..... 21 hours

**CHEMISTRY**

Students electing a chemistry major should have a satisfactory background in high school chemistry and a minimum of 3<sup>1</sup>/<sub>2</sub> years of college preparatory mathematics.

The course of studies for the chemistry major may be adapted to the interests and goals of the individual student. Generally, it will include from 30 to 40 credits of chemistry and approximately 30 credits in related sciences and mathematics, including MAT 111, 211-212 and PHY 211, 212 (preferred) or PHY 201, 202.

The department recommends that the chemistry major take the Graduate Record Examination as an integrative experience, required for graduation. An undergraduate research project will also meet this requirement. The minimum grade of C is required in all major courses.

A minor in chemistry (20 credits) includes CHE 111, 112, 243.

Students planning to study pharmacy can take up to two years of pre-pharmacy preparation under direction of the Physical Sciences Department.

**Course Descriptions — Chemistry Prefix: CHE****105 Fundamentals of Chemistry (3)**

Non-mathematical treatment of selected topics for the general student who will take no additional courses in chemistry. (Special fee)

**110 Preparation for College Chemistry (2)**

Preliminary course for students who wish to complete a major or minor sequence in chemistry but do not meet requirements for admission to Chemistry 111; given on CR/NC option only; credit not applicable toward the major or minor. Prerequisite: Mathematics placement in 100B or higher.

**111, 112 General Chemistry and Qualitative Analysis (3) (3)**

Chemical principles and descriptive inorganic chemistry for students majoring in science and mathematics. Prerequisite: Chemistry 110 or satisfactory score on placement test. Corequisite: CHE 111L, 112L.

- 111L, 112L General Chemistry and Qualitative Analysis Laboratory (1) (1)**  
Three hour laboratory to be taken concurrently with CHE 111, 112. (Special fee)
- 152 Introduction to Organic and Biological Chemistry (4)**  
Organic chemistry with application to the chemistry of the cell. 3 hours lecture, 2 hours laboratory weekly. Prerequisite: high school chemistry or Chemistry 105. (Special fee)
- 241 Organic Chemistry Survey (4)**  
Structure and reactions of monofunctional compounds, with related laboratory. Offered in BEC program only.
- 243, 244 Organic Chemistry (3) (3)**  
Chemistry of carbon compounds, with attention to theory. Prerequisite: Chemistry 112, 112L. Corequisite: CHE 243L, 244L.
- 243L, 244L Organic Chemistry Laboratory (1) (1)**  
Three hour laboratory to be taken concurrently with CHE 234, 244. (Special fee)
- 321 Quantitative Analysis (4)**  
Theory and practice of analysis, including volumetric, colorimetric, gravimetric and electrochemical procedures. 2 hours lecture, 6 hours laboratory. Prerequisite: Chemistry 112. (Special fee)
- 352 Biochemistry (4)**  
Molecular structures in the cell, biological oxidations, selected biosynthetic pathways, molecular genetics. See Biology 352. Prerequisite: Chemistry 243.
- 452 Biochemistry for High School Teachers (3)**  
Concepts and developments in biochemistry; the molecular basis of life processes. Prerequisite: CHE 476 or teaching chemistry.
- 355 Basic Physical Chemistry (3)**  
Selected topics in physical chemistry; for students in the life sciences as well as those who will continue in the physical chemistry sequence. Prerequisites: Chemistry 112, Physics 212 or 202, Mathematics 211.
- 356, 357 Physical Chemistry (3) (3)**  
Quantitative study of chemical principles: thermodynamics, kinetics, structure of matter. Prerequisite: Chemistry 355 or permission of Department, Physics 212 or 202, Mathematics 212 or equivalent.
- 366 Physical Chemistry Laboratory (2)**  
Laboratory problems in physical chemistry, with emphasis on equilibria and kinetics; one four-hour laboratory weekly. Prerequisite: Chemistry 355 and permission of Department. (Special fee)
- 295, 395, 495 Research (3) (3) (3)**  
Investigation of an original research problem of special interest to the student; independent execution of chosen experimental work under direction of selected staff member. MARC scholars follow a special research program. (Special fee).
- 447 Advanced Organic Chemistry (3)**  
Organic reaction mechanisms. Prerequisite: Chemistry 244. Corequisite: Chemistry 355.
- 460 Inorganic Chemistry (3)**  
Senior-level course in modern inorganic chemistry. Prerequisite: Chemistry 356.
- 476 Teaching Chemistry in Middle and Secondary School (3)**  
Special methods course in teaching chemistry in middle and secondary schools. Prerequisite or corequisite: Chemistry 356 and Candidacy in the School of Education. Tutorial.
- 259, 359, 459 Independent Research (3) (3) (3)**  
Opportunity for work in areas of special interest to the student. Prerequisite: Dean and Departmental approval.



## CHINESE

### Course Descriptions - Chinese Prefix: CHI

#### 101-102 Elementary Chinese I, II (3) (3)

Modern Chinese for beginners. This course will use comparative methods to teach basic structures in terms of phonetics, syntax, and semantics. Modern scheme for romanization of the writing system (the Pinyin system) will be taught together with the traditional Chinese characters. Emphasis on the practical command of the four language skills—listening, speaking, reading, and writing.

#### 300 Special Topics (3-12)

Contents to be specified by the Department of English and Foreign Languages according to the interests and needs of faculty and/or students.

**Under CHI 300, Special Topics, the course listed below will be offered.**

#### Chinese Culture and Civilization (3)

This course will provide a general survey of ancient China as well as of modern China. Emphasis will be placed on the first emperor of China, the last emperor of China, the T'ang Dynasty, the founding of the Republic of China, and the establishment of the People's Republic. The course will touch upon the unique transfer of a Communist society's movement into the modern world: changing economic structure, foreign policy, medicine, art, education, and social mores (e.g., divorce, juvenile delinquency, etc.).

## COMMUNICATION ARTS

The B.A. in Communication Arts is a broadly based program designed for those students who wish a generalist orientation to the Communication profession. The student is encouraged to investigate all aspects of the program in communication and develop a core of knowledge in related areas.

**Distribution Requirements: 45 hours**

#### Major Requirements:

COM 200 Intro to Mass Media	3 hours
COM 201 Survey of Communication	3 hours
COM Electives .....	24 hours

#### Guided Electives:

Courses in JOU, ART, TH, FRE, SPA, CS, or ENG (200 + level) .....	18 hours
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**General Electives: .....** 27 hours

**Degree Total: .....** 120 hours

#### Communication Arts Minor

COM 201 Survey of Communication	3 hours
COM designated courses	<u>18 hours</u>
Total	21 hours

### Course Descriptions — Communication Arts Prefix: COM

#### 104 Interpersonal Communication (3)

Study of self-concept, perception, language, listening, and conflict as they relate to person-to-person communication.

#### 200 Introduction to Mass Media (3)

Processes, systems and effects of the printed and electronic media; the role of newspapers, magazines, movies, radio and television.

- 201 Survey of Communication (3)**  
Study of all means by which we communicate, and the ethics and impact of various forms of communication on the individual and society. Overview of communication theory and research.
- 204 Writing for the Media (3)**  
Writing basic media copy. Emphasis on script preparation and techniques used professionally in the electronic media.
- 214 Television Production (3)**  
Studio production theory and practice; hands-on experience in basic production, direction and technical operations of a studio.
- 300 Special Topics in Communication (1-3)**  
Exploration of selected areas of study in the field of communication.
- 301 Studio Practicum I (1-3)**  
Developing skills in media settings. Prerequisites: COM 214 and permission of instructor.
- 351 Media Relations for Sport (3)**  
A detailed study of professional and collegiate sports and their relationship with the various media outlets. Same as SPO 351.
- 359 Independent Study (3)**  
Opportunity for research and study in the communication profession. Requires approval of Department Chair, and Dean.
- 390 Principles of Public Relations (3)**  
Basic concepts of Public Relations; the tools and media used in communication with the public.
- 391 Case studies in Public Relations (3)**  
The detailed analysis of the utilization of principles and techniques of public relations in a variety of contemporary situations and the practical application of those principles and techniques in a real situation. Prerequisite: COM 390.
- 393 Verbal Message Encoding (3)**  
Theories of human information processing and message encoding, concentrating on the use of fear appeals, Toulmin's model, and Monroe's Motivated Sequence within the context of Social Judgment Theory, Cognitive Dissonance Theory, and Balance Theory. Study of combining reality and imagination into a successful message. Practice in overcoming receiver perceptual problems in successful communication using stereotypical images and other techniques.
- 401 Studio Practicum II (1-3)**  
Development of advanced skills in media settings. Permission of instructor.
- 470 Seminar in Communications (3)**  
Identification and examination of a selected topic(s) in communication.
- 491 Television Direction (3)**  
Integration of television studio facilities, scripting, and production techniques into directing of basic television formats. Directing exercises and individual projects including planning, producing, directing and crew work. Prerequisite: COM 214.
- 493 Visual Message Encoding (3)**  
Theories of human information processing and message encoding, concentrating on visual message elements. Development of use of light, space, time, movement, vectors, and volume in the composition of modern media message. Practice in overcoming receiver perceptual problems using visual message elements. Prerequisite: COM 393.
- 495 Communication Law (3)**  
Studies in the current laws governing the mass media. Role of the FCC; requirements concerning audience ascertainment, libel, privacy and First Amendment issues. Same as JOU 495.
- 496 Electronic Media Advertising (3)**  
Examines revenue producing process for electronic media. Practice in developing and presenting media plans, use of databases, solution of real world advertising problems. Place of electronic media in advertising.
- 497 Media Management (3)**  
Problems and concerns in the management of the media. Practical experience in resolving business problems, promotion, sales, advertising, financing and legal regulation. Recommended prerequisites: COM 495, 496.



**498 Broadcast Journalism (3)**

Principles of good journalism applied to electronic media. Extensive experience in field reporting and writing news copy. Prerequisite: COM 204. (same as JOU 498)

**499 Internship (3-6)**

Practical experience in communication in a professional setting. Prerequisites: Senior standing; 3.0 G.P.A. in major; approval of Department Chair, and Dean.

**COMPUTER SCIENCE**

The undergraduate Computer Science program emphasizes academic excellence and provides the flexibility needed to enable the students to concentrate in the specialization of their choice.

The Bachelor of Science program provides the student with a theoretical and practical foundation leading to a career in Computer Science. It is an excellent preparation for graduate studies and research leading towards an advanced degree in Computer Science.

The theoretical foundation includes courses in systems design, programming, computer architecture, data communications, networks and database managements systems. Practical work includes software development projects and the application of systems development methodology to real life problems.

<b>Liberal Arts Requirements:</b>	<b>Credits</b>
Theology and Philosophy	9
Written and Oral Communication	9
*Natural Science and Mathematics	9
Social and Behavioral Sciences	9
Humanities and Arts	9
Sub total, Liberal Arts Requirements:	45
<b>Computer Core</b>	45
<b>Recommended Area of Specialization &amp; Electives</b>	21
<b>*General Electives</b>	9
<b>Total</b>	<b>120</b>

\*The following **Math Requirements** must be included in either the Distribution Requirement, Natural Science and Mathematics, and/or in the General Electives.

<b>Math Requirements:</b>	<b>Credits</b>
MAT 211 Calculus I (ACM-MA1)	4
MAT 250 Discrete Mathematics (ACM-MA4)	3
MAT 332 Linear Algebra (ACM-MA3)	3
	10

The purpose of the following "program road map" is to make course selection, advising and registration as simple as possible. This "map" should give the student the necessary prerequisite courses in the right sequence. The shown liberal arts distribution courses are only a suggestion. Schedules should be discussed with the student's advisor.

## Recommended Schedule

(120 credit hours)					
<b>Year 1:</b>					
Fall	Found. of Comp. Sci. CS 121	BASIC Program. CIS204	Freshman Comp. ENG111	Western Civil. I HIS101	Calculus I MAT211 acm-mal
Spring	Adm. Appl. of Comp. CIS315	Meth. of Reasoning PHI152	Tech. of Research ENG112	Marriage & Family SOL246	Hum. in 20th Cent HUM301
<b>Year 2:</b>					
Fall	Computer Progr. I CS 221 acm-cs1	Comp. Prob. & Analys. CS 222 acm-ma2	Physical Geography GEO307	Basic Photograp. ART203	World Religions REL103
Spring	Computer Progr. II CS 251 acm-cs2	Technical Writing ENG211	Special Topic BI0300	General Speech SPE312	Linear Algebra MAT332 acm-ma3
<b>Year 3:</b>					
Fall	Intro to Comp. Sys. CS 321 acm-cs3	Intro to Comp. Org. CS 322 acm-cs4	Intro to File Proc CS 323 acm-cs5	General Elective	Future of Religion REL351
Spring	Oper. Sys. & Arch. I CS 351 acm-cs6	Data Struc. & Algor. CS 352 acm-cs7	Org. of Prog. Lang. CS 353 acm-cs8	General Elective	Discrete Math. MAT250 acm-ma4
<b>Year 4:</b>					
Fall	C Program CS 421	Theory of Prog. Lang. CS 422 acm-cs15	Softw. Dev. Proj. I CIS412 dpma-cis7		
recommended areas of specialization (select one)					
<b>SOFTWARE ENGINEERING</b>		<b>COMPUTER ENGINEERING</b>		<b>DATA COMMUNICATIONS</b>	
Assembler Arch. CS 457 acm cs 21 Spring	Pascal Program CS 438	Computing Hardware CS 435	Computer Graphics CS 437 acm-cs35	Data Communic. CS 440 acm cs 24	Computing Hardware CS 435
Softw. Dev. Proj. II CIS413 acm-cs14	Oper. Sys. & Arch. II CS 452 acm-cs10	Artific. Intell. CS 461 acm-cs12	Robotics CS 454	Computer Networks CS 471 acm-cs24	Softw. Dev. Proj. II CIS413 acm-cs14
Database Mgt. Sys. CIS433 dpma-cis6	CS Elective	Intro. to Exp. Sys. CS 456	CS Elective	Intro. to Exp. Sys. CS 456	CS Elective
CS Elective		CS Elective		CS Elective	

Figure 1. This program is offered weekdays daytime between 8 a.m. and 5 p.m.



<b>Computer Core Courses: (45 credits)</b>			Credits
CS	121	Foundations of Computer Science	3
CIS	204	BASIC Programming	3
CIS	315	Administrative Appl. of Comp.	3
CS	221	Computer Programming I (ACM-CS1)	3
CS	222	Comp. Probability & Analysis (ACM-MA2)	3
CS	251	Computer Programming II (ACM-CS2)	3
CS	321	Intro. to Computer Systems (ACM-CS3)	3
CS	322	Intro. to Computer Org. (ACM-CS4)	3
CS	323	Intro. to File Processing (ACM-CS5)	3
CS	351	Oper. Sys. & Comp. Arch. I (ACM-CS6)	3
CS	352	Data Struct. & Algo. Analysis (ACM-CS7)	3
CS	353	Org. of Programming Languages (ACM-CS8)	3
CIS	412	Appl. Software Dev. Project I (DPMA-CIS7)	3
CS	421	C Programming	3
CS	422	Theory of Programming Lang. (ACM-CS15)	3
			45

**AREAS OF SPECIALIZATION IN COMPUTER SCIENCE:**

<b>Specialization in Software Engineering: (21 credits)</b>			Credits
CIS	413	Appl. Software Dev. Project II (ACM-CS14)	3
CIS	433	Database Management Systems (DPMA-CIS6)	3
CS	438	PASCAL Programming	3
CS	452	Operating Sys. & Comp. Arch. II (ACM-CS10)	3
CS	457	Assembler Architecture (ACM-CS10)	3
CS	XXX	(Choice of 2 Elective Computer Courses)	6
			21

<b>Specialization in Computer Engineering: (21 credits)</b>			Credits
CS	435	Computing Hardware	3
CS	437	Computer Graphics (ACM-CS35)	3
CS	453	Artificial Intelligence (ACM-CS12)	3
CS	454	Robotics	3
CS	456	Introduction to Expert Systems	3
CS	XXX	(Choice of 2 Elective computer Courses)	6
			21

<b>Specialization in Data Communications: (21 credits)</b>			Credits
CIS	413	Appl. Softw. Dev. Project II (ACM-CS14)	3
CS	435	Computing Hardware	3
CS	440	Data Communications (ACM-CS24-I)	3
CS	456	Introduction to Expert Systems	3
CS	471	Computer Networks (ACM-CS24-II)	3
CS	XXX	(Choice of 2 Elective Computer Courses)	6
			21

## Course Descriptions — Computer Science Prefix: CS

(Year, Semester and Prerequisites shown below are for C.S. majors only. Other students should obtain departmental permission before registration.)

### **121 Foundations of Computer Science (3)**

A course designed to provide the historical, mathematical and logical foundations for the study of computer science. Historical background, number systems and representation of information, problem solving techniques, symbolic logic and models of machines provide the student with a view to "the big picture". Prerequisite: none.

### **221 Computer Programming I (3) (formerly CS 200)**

Equivalent of ACM-CS1. Problem solving methods and algorithm development, structured programming and structured flowcharts. Debugging and documenting. The course will use "C" as the course language. Prerequisite: CS 121.

### **222 Computer Probability and Analysis (3) (formerly CS 250)**

Equivalent of ACM-MA2. Computer probability and analysis for Computer Science majors. Prerequisite: MAT 211 and CS 121.

### **251 Computer Programming II (3) (formerly CS 201)**

Equivalent of ACM-CS2. Continuation of the principles and methods taught in CS 221. Introduction of algorithmic analysis, string processing, internal search/sort methods, simple data structures. Prerequisite: CS 221.

### **321 Introduction to Computer Systems (3) (formerly CS 301)**

Equivalent of ACM-CS3. Basic concepts of computer systems and introduction to computer architecture. Course will include an assembly language. Prerequisite: CS 251.

### **322 Introduction to Computer Organization (3) (formerly CS 302)**

Equivalent of ACM-CS4. Course covers hardware fundamentals with emphasis on microprocessor-based systems. Logic circuits and information transfer between components. Prerequisite: CS 251.

### **323 Introduction to File Processing (3) (formerly CS 401)**

Equivalent of ACM-CS5. Introduction to structuring data on bulk storage devices (e.g. floppy or hard disks). This is an application of data structures and file handling. Introduction to concepts of data base. Prerequisite: CS 251.

### **351 Operating Systems & Architecture I (3) (formerly CS 402)**

Equivalent of ACM-CS6. Organization and architecture of computer-systems at the register-transfer and programming levels of system description. Major concepts of operating systems principles. Inter-relationships between operating system and system architecture. Prerequisites: CS 321 and CS 322; Recommended: CS 323.

### **352 Data Structures and Algorithm Analysis (3) (formerly CS 450)**

Equivalent of ACM-CS7. Analysis and design of nonnumeric algorithms which act on data structures. Utilization of algorithmic analysis and design criteria in database systems. Prerequisite: CS 323.

### **353 Organization of Programming Languages (3) (formerly CS 475)**

Equivalent of ACM-CS8. Formal specification of a computer language using Backus-Naur Form. Develop an understanding of organization of programming languages. Continued development of programming and problem solving skills. Prerequisite: CS 251; Recommended: CS 321 and CS 323.

### **421 C Programming (3) (formerly CS 370)**

The course covers data typing including the internally defined data structures (arrays, structures, and unions), control structures, functions and their evaluations. Students will study and write application programs such as database systems. Prerequisite: CS 251.

### **422 Theory of Programming Languages (3)**

Equivalent to ACM-CS15. A formal approach to state-of-the-art techniques in software design and development, including programming language translation and compiler design concepts. Prerequisite: CS 353.

### **435 Computing Hardware (3)**

Detailed analysis of microprocessor based systems, including hands-on projects. Digital gates, registers, counters and ALUs, Boolean Algebra, truth tables. Prerequisite: CS 351 and CS 322.



**436 Computers and the Public Interest (3)**

Equivalent of ACM-CS9. Informed citizenship requires some knowledge of the technology of computers. This course explores several areas in which computers pose important new problems and opportunities for society such as privacy, sex roles, education and training, work roles and conditions, economic crime, computer crime and computer security. No previous computer knowledge is required.

**437 Computer Graphics (3) (formerly CDP 428)**

Equivalent of ACM-CS35. Introduction to graphical data processing. Display parameters. Information retrieval versus data retrieval. Image recording parameters. Transmission of digitized information. Pattern description and recognition, use of picture models and data structures. Display software. Prerequisite: CS 421.

**438 PASCAL Programming (3) (formerly CDP 438)**

Introductory course in PASCAL programming. Extensive hands-on experience is provided through the solution of a realistic series of programming problems. Prerequisite: CS 251.

**439 Computer Programming in Logo (3) (formerly CS 210)**

Introduction to symbolic programming. Recommended for Education Majors. Prerequisite: none.

**440 Data Communications (3) (formerly CDP 440)**

Equivalent of ACM-CS24. Techniques and applications in data communications. Types of data communications versus discipline methodology. Hardware requirements and constraints. Speed versus quality. Security and encoding algorithms. Prerequisite: CS 421.

**452 Operating Sys. and Computer Architecture II (3)**

Equivalent of ACM-CS10. Review of interrupt structures, concurrent processes, resource allocations and advanced architecture and operating systems. Prerequisite: CS 351 and MAT 250.

**453 Artificial Intelligence (3) (formerly CS 340)**

Equivalent of ACM-CS12. A survey course for majors and nonmajors with previous computer experience. Topics covered include the programming languages for artificial intelligence (e.g., LISP and PROLOG), cognitive science, robotics, understanding natural language, pattern recognition (visual and audio), planning, problem solving, automated learning, expert systems and knowledge engineering. Prerequisite: CS 352.

**454 Robotics (3) (formerly CS 355)**

Course focuses on the design and control of stationary and mobile robots. The parts of robots will be studied in the context of robot morphology. The nature of the drive mechanisms (electrical, mechanical, pneumatic and hydraulic) are described as well as sensors, motors, effectors and the various peripheral modules. Simple feedback mechanisms will be covered. Prerequisite: CS 322.

**456 Introduction to Expert Systems (3) (formerly CS 375)**

Application-oriented facet of Artificial Intelligence. Course will introduce applications of Expert Systems in various fields (e.g., business, education, medicine). Prerequisite: CS 421 and CS 422.

**457 Assembler Architecture (3) (formerly CDP 380)**

Equivalent of ACM-CS21. Symbolic coding techniques at the machine language level. Computer architecture, number systems, addressing techniques, and interrupt processing. Students develop an understanding of actual operation of computer code through hands-on testing. Prerequisites: CS 353 and 421 and CS 422.

**459 Independent Study (1-3) (formerly CS 359)**

Opportunity to work in areas of special interest to the student. Prerequisite: Advisor and Department Chair approval required.

**471 Computer Networks (3) (formerly CS 432)**

Equivalent of ACM-CS24. A thorough coverage of computer networks, covering traditional packet switching as well as satellite networks and local area networks, distributed processing. Network architectures and protocols will be analyzed in the local area network environment. Prerequisite: CS 440.

**472 FORTRAN Programming (3) (formerly CDP 302)**

Problem solution using FORTRAN. Problem areas include scientific and business applications with subroutines, modular programming, debugging, analysis and documentation. Prerequisite: CS 251.

**473 LISP Programming (3) (formerly CS 350)**

LISP is the standard language for artificial intelligence applications. Topics include symbolic expressions (atoms and lists), Lambda definitions, coping, recursion. Prerequisite: CS 251.

**476 Teaching Computer Science (3)**

Participants will be introduced to the special problems and methods of teaching computer science to K-12 students. This course intended primarily for Computer Education students. Prerequisite: Departmental approval and candidacy in the School of Education.

**477 Computer Security (3)**

Topics include security for data communications (encryption) data base, microcomputers. Other topics covered are computer center security, disaster planning, personnel screening, threat evaluation. Prerequisite: CS 440.

**487 Seminar (3)**

Content to be determined by the department to fill specified needs or interests. Prerequisites: as needed.

**491 Computer Hardware Applications (3)**

A hardware applications course which surveys microprocessor driven technologies and their uses. Special emphasis is given the devices that enable a computer to accept, analyze and report information. This course is intended mainly for Computer Education students. Prerequisite: CS 351.

**499 Internship (3-6) (formerly CS 399 and CS 499)**

Computer Science applications in a professional work setting under direct supervision. Requires a minimum of 120 hours for 3 credits or 240 hours for 6 credits. Prerequisites: Junior status and Advisor and Department Chair approval. (Students may elect a maximum of 6 internship credits.)

## **CRIMINAL JUSTICE**

The Criminal Justice system in the United States can be divided into three basic elements: law enforcement, courts, and corrections. The Criminal Justice program at Barry University provides the student with exposure to all three elements. A wide variety of career opportunities is available in criminal justice at all levels of government. Due to its interdisciplinary approach, the study of criminal justice fills the needs of students seeking careers in various criminal justice occupations.

Students majoring in Criminal Justice should consult with their advisor to ensure that the courses selected meet program and degree requirements.

The B.S. in Criminal Justice requires 30 credits and a minimum grade of C in all major courses. Criminal Justice majors are required to minor in one of the following disciplines: Sociology, Political Science, History, Psychology. Exceptions based on departmental approval. A minor in Criminal Justice requires 21 credits.

### **Course descriptions - Criminal Justice Prefix: CRJ**

**103 The Criminal Justice System (3)**

A survey of the philosophical and historical trends that make up the criminal justice system. Also included is an evaluation of the criminal justice system including: current trends, career orientation, agencies and processes. (Same as SOC 103)

**211 Corrections in America (3)**

This course will present an historical review of correctional and penal institutions as well as the current state of achievement. It will also stress the needs and directions for future efforts - that which needs to be done, in contrast to that which has and is being accomplished. (Same as SOC 211) Prerequisite: CRJ 103



**221 Law Enforcement (3)**

Law enforcement and police operations affect the democratic process more crucially than any other aspect of public policy. This course looks at the discretionary conduct of policemen, the development of police power and the degree to which the police officers perform their tasks in accordance with community values and needs. Prerequisite: CRJ 103 (Same as SOC 221)

**300 Special Topic (3-6)**

Content to be determined by the department according to the faculty and specific needs, and/or interests of the students.

**302 Juvenile Delinquency (3)**

A theoretical and empirical study of the extent of delinquency. The student will also evaluate the problems involved in measuring delinquency and the role of the police, courts, and a critical examination of treatment and prevention programs. Prerequisite CRJ 103 (Same as SOC 302)

**307 Current Issues in Criminal Justice (3)**

Because the field of Criminal Justice is in a constant state of flux, today's students must consider a broad spectrum of subjects involving the entire system. This course is an up-to-date anthology of articles, commentary, reports, and statistics from the most recent literature in the criminal justice field. For CRJ majors only.

**311 Criminology (3)**

Criminology is the study of crime, its legal and social aspects. Criminology is the composite result of the thinking and endeavors of many people. It is the purpose of the course to introduce to the student criminological theories, concepts and practices along with the sociological and psychological approach to criminal behavior. Prerequisite CRJ 302.

**325 Organized Crime (3)**

A survey of the history, scope and methods of control that are utilized by organized crime in the United States. Organized crime in other cultures will be discussed especially in the areas that affect the economy in the United States.

**421 Criminal Law (3)**

A detailed study of criminal law, its origin, definition, and scope. The role of the enforcement officer in the application of substantive criminal law. An analysis of the rights and duties of a police officer concerning particular types of crime. Prerequisite CRJ 311.

**427 Courtroom Demeanor and Technique: (3)**

This course is designed to acquaint and educate the police officer and lay-person alike in preparation for testifying in the open courtroom. It is based upon a survey of the general rules of evidence so that the student will be able to anticipate what will occur during trial and what he or she should do in preparation for trial. Prerequisite CRJ 421.

**499 Internship (3-6)**

Internship is a systematic means of combining classroom learning with practical work experience. The goal is to place students in work situations designed to compliment and enrich their intellectual, emotional, social, and career development. Work experience may be arranged through local criminal justice agencies. Approval of Advisor, Chair, Dean required. For CRJ majors/minors only.

**359, 459 Independent Study (3)**

Opportunity for extensive research in criminal justice in areas of special interest to the student. Dean and Departmental approval req.

**ENGINEERING**

A dual degree program has been established between Barry University and the University of Miami whereby an undergraduate student, after completing the academic requirements of the two cooperating institutions, will be awarded a bachelor degree from Barry University and one of the several designated engineering bachelor degrees from the University of Miami.

The student in the dual degree program will attend Barry University for approximately three years, completing a minimum of 90 credit hours with a GPA of 2.5 or above. These hours will include all general education requirements, prerequisites for engineering, and most of the requirements for a related major at Barry University.

It is expected that in most cases the student in this program will complete a Barry major in either mathematics or computer science. Please see the Mathematical Sciences section of this bulletin for a recommended course sequence in mathematics.

The engineering prerequisites for the dual degree program are those described under Pre-engineering.

Following the Barry University component of the program, dual degree candidates attend the University of Miami for approximately two years and are eligible to enter any of the following degree programs:

- Architectural Engineering
- Civil Engineering
- Electrical and Computer Engineering
- Engineering Science
- Industrial Engineering
- Mechanical Engineering

On completion of the program, the student will be awarded a bachelor degree in the selected major from Barry University and a bachelor degree in engineering from the University of Miami.

### **ENGLISH**

The English major consists of a minimum of 42 credits beyond the required freshman courses in writing, ENG 111 or 210 and ENG 112.

The minimum grade of C is required in all major courses.

At the end of the program, English majors must complete satisfactorily a comprehensive examination. The program for a student who wishes to minor in English consists of 21 credits beyond ENG 111 or 210 and ENG 112.

Under the direction of their advisors, English majors will choose courses distributed among the following areas:

#### **Survey Courses (minimum of 12 credits):**

- 331/332 English Literature
- 316 World Literary Masterpieces
- 324 Major American Writers
- 439/440 Theatre History

#### **Theory/Criticism Courses (minimum of 6 credits):**

- 387 Introduction to Literary Theory
- 389 Advanced Critical Readings

#### **Period Courses (minimum of 12 credits):**

- 420 Medieval English Literature
- 421 Sixteenth-Century English Literature
- 422 Seventeenth-Century English Literature
- 423 Restoration and Eighteenth-Century English Literature
- 424 American Literature: 1800-1865
- 425 American Literature: 1865-1914
- 426 American Literature: 1914-Present



- 432 Nineteenth-Century English Literature - The Romantics
- 433 Nineteenth-Century English Literature - The Victorians
- 460 Twentieth-Century Literature: 1900-1945
- 461 Twentieth-Century Literature: 1945-Present

**Authors Courses (minimum of 6 credits):**

- 407 Shakespeare
- 429 English Studies

**Genre Courses (minimum of 6 credits):**

- 315 The Novel
- 429 English Studies
- 441 Contemporary Theatre

Placement in composition classes is determined by SAT or ACT score or essay.

The following courses in English fulfill the Gordon Rule relating to courses that include a minimum of 6,000 written words: ENG 111, ENG 112, ENG 210, ENG 312. Courses other than English that fulfill this section of the Gordon Rule include HIS 101-102.

**Course Descriptions — English Prefix: ENG**

**103a Basic English: Composition (3)**

Emphasis on writing skills. The course does not fulfill distribution or degree requirements. A minimum grade of C or better is required to proceed to English 111 or other English courses. Three graded attempts maximum. Must be completed by the end of 29 credit hours.

**105 American English Phonetics: (3)**

Reduction of foreign and regional accents. Focus on the International Phonetic Alphabet (IPA), with emphasis on linguistic variables that influence accent reduction: articulation, stress intonation, word order, phrasing, and vocabulary. Individualized instruction incorporating speaking, reading and writing. Does not fulfill distribution or degree requirements. (Also SPE 105).

**111 Freshman Composition and Literature (3)**

Writing of short papers and readings in the humanities. A minimum grade of C is required to earn credit and to satisfy graduation requirements.

**112 Techniques of Research (3)**

Readings; writing of research paper. A minimum grade of C is required to earn credit and to satisfy graduation requirements. Prerequisite: ENG 111 with C or better.

**207 Composition II (3)**

Thorough review of the writing process. Students will study and write various forms of academic and non-academic prose: essays of rhetorical analysis, argumentative and persuasive essays, editorial and feature forms. Prerequisite: ENG 112 or permission of Department Chair.

**210 The Literary Tradition (3)**

Selected readings from among the three major genres - fiction, poetry, drama. Writing of short critical papers emphasizing genre recognition and analytical skills. Prerequisite: ENG 112 or permission of Department chair.

**300 Special Topics (3-12)**

Content to be determined each semester by the Department as requested by faculty and/or students to fill specified needs or interests.

**310 Grammar (3)**

English syntax with emphasis on the traditional approach.

**312 Advanced Composition (3)**

Study of and practice in writing expository forms of discourse.

**315 The Novel (3)**

Structural analysis of the novel; selections vary.

- 316 World Literary Masterpieces (3)**  
World masterpieces from the Ancient East and West to the twentieth century.
- 320 Children's Literature (3)**  
Survey of literature suited to the needs of children. Same as EDU 320.
- 324 Major American Writers (3)**  
Study of major American authors, from the colonial period to the present.
- 331/332 English Literature I, II (3) (3)**  
Historical survey of the literature of England to the twentieth century.
- 387 Introduction to Literary Theory and Criticism (3)**  
Introduction to the nature of literature and the methods of approaching it. Implications for criticism across the arts.
- 389 Advanced Critical Readings (3)**  
In-depth analysis of selected works.
- 403 History of the English Language (3)**  
Formation and growth of the language; special attention to sources, structure, and idiom; includes a study of American modifications of the language.
- 407 Shakespeare (3)**  
Shakespearean plays showing the author's artistic development. Same as TH 407.
- 420 Medieval English Literature (3)**  
Major literary works of the Middle Ages to 1485.
- 421 Sixteenth Century English Literature (3)**  
Major literary works of the Sixteenth Century, from Wyatt through Spencer.
- 422 Seventeenth-Century English Literature (3)**  
Major literary works of the seventeenth century, from Donne through Milton.
- 423 Restoration and Eighteenth - Century Literature (3)**  
Major literary works of the Restoration and eighteenth century, from Dryden to Johnson.
- 424 American Literature: 1800-1865 (3)**  
Selected readings from major writers of the period.
- 425 American Literature: 1865-1914 (3)**  
Selected readings from major writers of the period.
- 426 American Literature: 1914 - Present (3)**  
Selected readings from major writers of the period.
- 429 English Studies (3-12)**  
Selected literary topics, figures, and genres.
- 432 Nineteenth - Century English Literature: The Romantics (3)**  
Major literary works of the romantic period.
- 433 Nineteenth-Century English Literature: The Victorians (3)**  
Major literary works of the Victorian period.
- 439, 440 Theatre History I, II (3) (3)**  
Theatrical event and its attendant literature from ritual beginnings to the closing of the theatres in England; from the Restoration to the 1950's and the advent of Absurdist theatre. Same as TH 439, 440.
- 441 Contemporary Theatre (3)**  
Study of the plays and theatrical practices of modern day. Same as TH 441.
- 359, 459 Independent Study (3) (3)**  
Opportunity for extensive research in areas of special interest to the student. Prerequisite: Dean and Department Chair approval.
- 460 Twentieth-Century Literature: 1900-1945 (3)**  
Selected works of the period.
- 461 Twentieth-Century Literature: 1945-Present (3)**  
Selected works of the period.



**476 Teaching English in the Middle and Secondary School: 6-12 (3)**

Problems confronting teachers of English in the middle and secondary school, current research, organization of courses, sources of materials and textbooks, and methods of teaching. Prerequisite: Candidacy in the School of Education.

**492 Workshop (1-3)**

Problem-solving approach to a particular area of literature or writing.

**499 Internship (3)**

Opportunity for approved student majoring in English to utilize job skills while working under supervision at a local organization. Unsalaries. Requires a minimum of 120 hours and approved of Department Chair.

**ENGLISH/PROFESSIONAL WRITING**

The program in Professional Writing is an academic program to prepare Barry graduates for challenging positions as practitioners in the broad spectrum of professional writing, including but not limited to these areas: journalism - investigative, editorial, satiric, and literary; corporate and speech writing; advertising - for both the print and electronic media; scientific, medical, and engineering documentation; and writing for educational, governmental, and other not-for-profit agencies.

The premise of this program is two-fold:

1. That a mastery of the rhetorical principles of composition underlies all writing contexts; and
2. That expertise in invention, composition, revision, and editing methods provides a graduate with flexibility to adapt easily to the varying conventions and audiences of professional writing.

Students enrolled in this program will master the conventions for content, organization, and style; will learn to write for different disciplines; and will become skilled in the persuasive strategies utilized by writing professionals.

After undergoing this course of study, students will be able to perform all the tasks needed to produce publications — from data gathering, through writing and editing, to graphics and layout. The program will provide students with an overview of the kinds of jobs available to writing specialists in a variety of fields. At the same time, the program will provide solid grounding through skills and networking that will enable students to choose a field in which to specialize after graduation, if they so desire.

A graduate of this program will be qualified to seek an entry-level position as a writer in the corporate, industrial, and governmental sectors; medical and scientific communities; advertising and public relations fields; journalistic world; and virtually every profit and not-for-profit enterprise that requires written messages designed to promote information gain, induce attitude change, and affect behavior.

The core curriculum consists of 30 credit hours as follows:

ENG 208	Writing as a Profession	03
ENG 304	Persuasive Writing	03
ENG 343	Speech Research, Writing, and Editing	03
ENG 344	Business Research, Writing, and Editing	03
ENG 345	Financial Research, Writing, and Editing	03
ENG 346	Medical Research, Writing, and Editing	03
ENG 347	Tech. & Scientific Research, Writing, and Editing	03
ENG 417	Advertising Copywriting	03
ENG 418	Publication Production and Layout	03
CIS 300	Desktop Publishing	03
		<hr/>
		30

In addition, students will choose a focused minor in an appropriate area such as Journalism, Photography, Business, Creative Writing, Biology, or Computer Science determined in consultation with appropriate Department/School faculty and approved by the program advisor.

Students will complete an integrative experience which consists of a 3- or 6-credit internship. During the internship, students will be able to use their research, writing, and editing skills in conjunction with hardware and software within the graphics and printing industry to produce a portfolio. A minimum grade of C is required in all major courses.

### Course Descriptions - English Prefix: ENG

#### **208 Writing as a Profession (3)**

An overview of the opportunities available for writing careers in such different disciplines as business, the sciences, and the technologies; freelancing; getting a job; negotiating fees. Ethical issues relevant to professional writers will be emphasized. The course will include lectures and panel discussions by professionals in the field. Prerequisite: English 112 or permission of Department Chair.

#### **304 Persuasive Writing (3)**

Study of the science and art of using written language to promote information gain, induce attitude change, and affect behavior. Starting with Aristotelian sources of proof, this course will provide a historical perspective on how persuasion has evolved to modern times. Drawing on sociological and psychological principles, it will help a student master the language to reach both the target and general audiences. Prerequisite: English 208 or permission of Department Chair.

#### **333 Introduction to Fiction Writing (3-6)**

Along with study of models, students will engage in exercises that explore the creative process and various modes of fiction. Students will write and revise poems that will lead to a portfolio of the semester's work.

#### **334 Introduction to Poetry Writing (3-6)**

Along with intensive study of models of classic and contemporary poetry, students will engage in exercises that explore the creative process and various poetic forms. Students will write and revise poems that will lead to a portfolio of the semester's work.

#### **343 Speech Research, Writing, and Editing (3)**

Students will learn to research, organize, and write speeches to be delivered to internal and external audiences. Students will learn to assess the needs and stylistic characteristics of speakers, gather data, assess intended audience response, and use effective rhetorical techniques. Students will practice oral presentation skills for the marketplace. Ethical issues relevant to the responsibilities of the speech writer will be included. Prerequisite: English 208 and Speech 101 or permission of Department Chair.



**344 Business Research, Writing, and Editing (3)**

Study and practice of the kinds of internal and external writing used in different organizations - utilities, for-profit corporations, non-profit organizations, and others. Practice in the researching, writing, and editing of letters, memos, reports, market analyses, promotions, product descriptions, grants, proposals, etc. Relevant ethical issues will be included. Prerequisite: English 208 or permission of Department Chair.

**345 Financial Research, Writing, and Editing (3)**

Students will learn to interpret appropriate financial indexes and to use them to assess financial data relevant to particular organizations. Students will apply this knowledge in the writing of annual reports, financial prospectus, and others. Legal and ethical issues relevant to financial reporting will be included. Prerequisite: English 208 or permission of Department Chair.

**346 Medical Research, Writing, and Editing (3)**

Students will be exposed to the various specialties within medicine as well as to the various types of writing required by each. After learning the techniques and the sources for research, students will write and edit articles for medical specialties. Students will become familiar with current developments in the field, relevant ethical considerations, and projections for the future. Prerequisite: English 208 or permission of Department Chair.

**347 Technical & Scientific Research, Writing, and Editing (3)**

Students will research, write, and edit general technical materials such as manuals, descriptions, and specifications. Applications to particular technologies - computers, engineering, aerospace, and others - will also be included. Relevant ethical issues will be addressed. Prerequisite: English 208 or permission of Department Chair.

**406 Rhetorical Analysis (3)**

In-depth analysis of advertisements, speeches, film, and literature from a rhetorical perspective.

**410 Advanced English Grammar (3)**

Analysis of English grammatical structures; emphasis on modern descriptive analysis.

**411 Classical Rhetorical Theories (3)**

History of rhetoric from the Greco-Roman period to the mid-twentieth century. Attention will be given to the major figures, texts, and movements.

**412 Contemporary Rhetorical Theories (3)**

Study of the development of a contemporary rhetoric based on cognitive/developmental psychology, current developments in linguistics, and contemporary empirical research and discourse theory.

**413 Fiction-Writing Workshop (3-6)**

Intensive study of and practice in the craft of writing fiction. Students will write and present their stories, respond to others' work orally and in writing, and study classical and contemporary theories of fiction writing as well as models of the craft. Prerequisite: ENG 333 or permission of Department Chair.

**414 Poetry-Writing Workshop (3-6)**

Intensive study of and practice in the craft of poetry writing. Students will write and present their poems and revisions, respond to others' work orally and in writing, and study classical and contemporary theories of fiction writing as well as models of the craft. Prerequisite: ENG 334 or permission of Department Chair.

**417 Advertising Copywriting (3)**

Students will learn the theory and techniques necessary to produce successful advertising copy. Students will also learn to integrate the written word with the appropriate visual symbols in order to produce effective messages. Ethical issues within the industry will be emphasized. Prerequisite: English 208 or permission of Department Chair.

**418 Publication Production and Layout (3)**

Students will learn how to enhance the written material through the inclusion of appropriate graphic techniques and design: colors, typesetting, layout, etc. Students will also learn the concepts and terminology necessary to deal with publishers and other professionals in the graphics industry. Prerequisite: English 208 or permission of Department Chair.

## FRENCH

The French program, besides enabling students to acquire proficiency in the four basic skills — listening, speaking, reading, and writing — provides for a deeper understanding of the French culture. These objectives aim to prepare the student for teaching and for work related to translating and interpreting, diplomatic service, overseas business and industry, social welfare, law, nursing, allied health professions, etc.

The French major consists of a minimum of 30 credits. The minimum grade of C is required in all major courses. At the end of the program, French majors must complete satisfactorily a comprehensive examination.

Courses required for the major are: FRE 302, 305, 306, and 379. Students will choose an additional 18 credit hours beyond FRE 101-102.

Students who are planning to teach should add FRE 476, Teaching Foreign Languages: K-12.

A minor in French requires a minimum of 21 credit hours.

Placement in French classes is determined by testing of new students at the time of first enrollment.

Up to six credits in French will be granted for CLEP upon completion of at least six credits in French beyond the elementary level taken at Barry University.

### Course Descriptions-French Prefix: FRE

#### **101-102 Elementary French I, II (3) (3)**

Introduction to French as a spoken and written language; conversation with emphasis on practical vocabulary and accurate pronunciation; practice in class and in the laboratory in understanding and using the spoken language; reading and writing with progressive grammatical explanations. FRE 102: Prerequisite: FRE 101 or equiv.

#### **203-204 Intermediate French I, II (3) (3)**

Intensive oral and written review of pronunciation and the structures of the French language; recognition and active handling of aural comprehension and oral production; reading and writing. FRE 203: Prerequisite: FRE 102 or equiv; FRE 204: Prerequisite: FRE 203 or equiv.

#### **250 Conversation and Composition (3)**

Diction and fluency in the language; prepared and extemporaneous dialogues and reports on current topics; practice in writing French with accuracy; systematic review of the grammatical principles of the French language; study and practice of French pronunciation with exercises in diction. Prerequisite: FRE 204 or equiv.

#### **300 Special Topics (3-12)**

Content to be determined to fill specific needs or interests.

#### **301 Advanced Conversation, Composition and Grammar (3)**

Intensive study of written and spoken French. Development of skills to facilitate spontaneity of expression. Practice in contemporary usage through selected readings. Prerequisite: FRE 250 or equiv.

#### **302 Introduction to French Literary Texts (3)**

Introduction to French literature through close reading and discussion of selected works chosen from representative genre. Includes compositions, conversation, and introduction to literary criticism through literary dissertations and class discussions. Conducted in French. Prerequisite: FRE 250 or equiv.



**305-306 Survey of French Literature I, II (3) (3)**

Historical survey of French literature to the twentieth century; representative works of each period. Prerequisite: FRE 302 or equiv.

**317 Commercial French (3)**

Introduction to the use of the French language as a means of communication in the world of business. Emphasis on basic commercial terminology, documentation and correspondence. Areas such as advertising, trade, banking and finance will be investigated in this course.

**325 Introduction to Translation (3)**

Emphasis on basic principles of translation and interpretation. Techniques and resources for professional translations.

**326 Introduction to Interpretation (3)**

Emphasis on basic principles of interpretation. Techniques and resources for professional interpretation.

**379 Culture and Civilization (3)**

Historical survey of the life and culture of the French people. Conducted in French. Prerequisite: FRE 250 or equiv.

**380 Contemporary Culture and Civilization (3)**

Survey of the life and culture of the French people of the twentieth century. Panorama of contemporary French intellectual and artistic achievements. Conducted in French. Prerequisite: FRE 250 or equiv.

**400 Twentieth-Century Cinema (3)**

Study of the development of the French cinema from 1895 to the present. Film will be studied as an art form and as an expression of the society that produces it. Developments from the silent era, through sound, to contemporary technical achievements will also be analyzed.

**402 Introduction to Practical Stylistics (3)**

Advanced grammar and syntax exercises. Systematic study of the problems of translations and their solutions. Weekly conversation topics to improve oral expression.

**440 Classicism (3)**

Classical and baroque in French seventeenth century literature; themes and structures in works of the principal figures of the day, such as a Descartes, Corneille, Pascal, Moliere, Racine, Mme. de Sevigne, La fontaine, and La Bruyere. Prerequisite: FRE 302.

**444 Eighteenth-Century Literature (3)**

Focus on eighteenth century French literature; themes and structures in the works of the principal literary figures of the century. Prerequisite: FRE 302.

**445 Nineteenth-Century Literature (3)**

Study of themes and structures in the works of the principal literary figures of the nineteenth century, from Chateaubriand to Mallarme. Prerequisite: FRE 302.

**460 Contemporary Literature (3-6)**

Main currents of thought and choices in literary style among contemporary authors. Prerequisite: FRE 302.

**461 Twentieth-Century Theatre (3-6)**

Plays and dramatic theories of representative dramatists of the twentieth century. Prerequisite: FRE 302.

**476 Methods of Teaching Foreign Languages: K-12 (3)**

Traditional and modern methods of teaching comprehension and language skills; organization of units of work and lesson plans. Analysis of modern texts, test and materials; use of the language laboratory. Prerequisite: Candidacy in the School of Education.

**487 Seminar (3-12)**

Selected literary topics, including thematic, genre and historical approaches.

## **GEOGRAPHY**

### **Course Descriptions — Geography Prefix: GEO**

**303 Geography of Europe (3)**

Europe with an emphasis on man, his culture, economy, history, and political entities on a regional basis; man's adaptation and development in relation to his physical environment, and the influence of environment upon man and his activities.

**305 Latin American Geography (3)**

Latin America with an emphasis on man, his culture, economy, history and political entities on a regional basis; focus on man's adaptation and development in relation to his physical environment and the influence of environment upon man and his activities.

**307 Physical Geography (3)**

Holistic approach to man in nature; climatic, physical, biochemical, economic, and political influences upon the ecological structure of the Earth; Earth resources and conservation.

**308 United States Geography (3)**

Survey of physical, cultural, economic relationships in the contemporary setting of the United States.

## **HISTORY**

Requirements for a major in history are: 30 credits, with a minimum of 18 in upper biennium courses, including nine hours of 400-level courses but excluding 476. Required courses include HIS 101, 102, 201, 202, and 474. Students seeking secondary certification should add HIS 476.

Graduation requirements include 1) earning a minimum grade of C in all major courses and 2) passing a departmental exam or achieving a satisfactory score on the Graduate Record Examination in History or Law School Admissions Test. Requirements for minors are 21 credits, including HIS 101, 102, 201, 202, and nine credits in upper-biennium courses.

### **Course Descriptions — History Prefix: HIS**

**101, 102 Survey of Civilization; I & II (3) (3)**

Origins and formative influences in the culture of the world; incorporates non-western materials as they have influenced western thought and activity; first semester concludes with the French Revolution; second semester reviews world development from the eighteenth century to the present.

**111 The Americas: A Comparative Study I (3)**

Comparative treatment of both North and South America, emphasizing colonial systems, independence movements, civil strife, culture, religion, forms of government, economic, social and racial issues. The approach will be both conceptual and chronological.

**112 The Americas: A Comparative Study II (3)**

Comparison of civil strife, revolutions, reform movements, continuing racial issues, economy and the impact of the Industrial Revolution on both areas. Some countries of the Caribbean, Central and South America will be treated as well as the United States.

**201, 202 U.S. People & Ideas, I & II (3) (3)**

Topical survey of American History, its people and ideas; first semester includes the period to 1877; second semester continues from 1877 to the present.

**300 Special Topics (3-6)**

Contents to be specified by the Department according to the interest and expertise of faculty members and the specific needs and/or interests of the students.

**308 History of Asian Civilizations (3)**

Overview of selected major Asian nations with emphasis on twentieth century developments.

**335 Modern Russia (3)**

Survey of the historical evolution of Russia with emphasis on either Czarist Russia or the USSR, including the development of revolutionary, economic, military, political and social institutions.

**336 Great Britain in the Modern Era (3)**

Political, social and cultural history of Great Britain; emphasis on the emergence of the British nation, the evolution of constitutional government, the effects of imperialism, and the relationship between economic and social structure and change.



**384 Latin American National Period (3)**

Overview of selected major Latin American nations with emphasis on twentieth century developments (i.e., Revolutions, Nationalism).

**386 Latin America since 1945 (3)**

Examination of Latin American affairs since 1945; emphasis on international relations within the Western hemisphere and beyond.

**388 History of the Caribbean (3)**

Survey of the history of the main island nations of the Caribbean; emphasis on their historical, cultural, and political dependency on colonial powers.

**400 Contemporary World (3)**

Selected topics in recent world history; emphasis on the interrelatedness of World Affairs in the post-World War II era.

**403 American Diplomatic I to 1870 (3)**

Foundation of American diplomacy; Monroe Doctrine; foreign wars and diplomacy of America's Civil War.

**404 American Diplomatic II 1870 to present (3)**

Significant topics in diplomatic history; including the emergence of the US as a world power; the Cold War; decision making in the Department of State; and the role of interest groups in foreign policy. Same as POS 404.

**430 History of Europe in the 19th Century (3)**

Political, economic and intellectual developments from 1814 to 1914.

**436 History of Europe in the 20th Century (3)**

Political, economic and intellectual developments from 1914 to 1945.

**437 European Diplomatic Since 1815 (3)**

Significant topics in diplomatic history; includes decision-making in selected Foreign Offices; role of selected nations in international policy.

**441 American Social and Intellectual History (3)**

Examination of ideas and their role in the American past; treats materials from the Civil War to the present.

**451 The Rise of a World Economy (3)**

Focus on the participation of major nations in the expansion of world trade from the sixteenth century up to the present and exploration of their political and ideological justification.

**474 Historical Methods**

An examination of history as a written subject, exploring the philosophies of history and applying methods of historical research and interpretation to specific historical problems.

**476 Methods of Teaching Social Sciences, Grades 6-12 (3)**

Method of teaching social studies, emphasizing the integration of history, a survey of problems confronting middle and secondary school social studies teachers, including an evaluation of courses and textbooks; instruction in the use of audio-visual materials. Prerequisite: Candidacy in the School of Education.

**487 Seminar (3-6)**

Intensive research under direction of professor.

**499 Internship (3-6)**

Opportunity to integrate scholarly activities with practical applications. Dean and Departmental approval required.

**359, 459 Independent Study (3)**

Opportunity for extensive research in an historical area of special interest to the student. Dean and Departmental approval required.

**HONORS (see description of Honors Program)**

**Course Descriptions — Prefix: HON**

**101-102 Freshman Honors Seminar (3) (3)**

An interdisciplinary seminar open only to Honors students. Contents will be determined by the interest and expertise of the faculty members and the specific needs and/or interests of the Honors students. The course sequence will fulfill an Honors Program requirement.

## HUMANITIES

The Humanities offerings consist of a sequence of interdisciplinary courses using literature as "the hub of a wheel" that explores fundamental questions of the human condition. Literature has been described as a "logical" focus for the integration of knowledge because of its ability to extend outside itself to forms of human experience beyond disciplinary boundaries. In this regard, it satisfies the search for "the connectedness of things" (Mark Van Doren).

"Literary interrelations" afford the opportunity to explore human concerns as the literary expressions of those concerns reflect or are refracted by other modes of thought and methods of inquiry: psychological, historical, gender, religious, legal, musical, and possibly others.

### Course Descriptions — Humanities Prefix: HUM

#### **HUM 100 Humanities (3)**

An integrated approach to the humanities: the creative ideas, works, and accomplishments of various cultures in art, architecture, drama, music, literature and philosophy are presented.

Under HUM 300, Special Topics, the courses listed below will be offered. Students may take HUM 300 as many times as they wish as long as the course content is different.

#### **Women in/and Literature (3)**

Depiction of the reality experienced or perceived by women and the portrayal of women in world literature (stereotypes, traditional roles, role conflict, relationships, cultural differences etc.)

#### **Psychological Dimensions of Literature (Lit. & Psychology) (3)**

The relationship between literature and psychology with particular emphasis on the influence of psychoanalysis in critical interest in: directorial unconscious intention, literary interest in motivation of character and the interior life, abnormal behavior, and societal definition of "normalcy." The influence of psychology on literary style and genres: dream, stream of consciousness, symbolism, etc.

#### **Historical/Sociological Dimensions of Literature (Lit. & History/Sociology) (3)**

Exploration of literary works that reflect historical or social events (revolutions, wars, Depression years), movements (industrialization, urbanization, democratization), or personages. The premise is that a socio-historical perspective enhances an understanding of the literature as well as of the individual period of culture.

#### **Anthropological Dimensions of Literature (Lit. & Anthropology) (3)**

Literary works which depict through cross-cultural perspectives social structures found in various societies: kinship and marriage systems; gender; myth; legend; ethnicity; ritual; rites of passage; witchcraft; religion; symbolic classifications; structuralism; legal, political, and economic structures, etc.

#### **Commercial Dimensions of Literature (Lit. & Business) (3)**

Literary works which depict financial, economic, and business practices and practitioners. Discussion of concepts of ethics, the middle class work ethic, power, the "American Dream," social responsibility, American affluence and consumption, relationship between labor and management, effects of technology and government regulation, and quality of work life.

#### **Literature and Film (3)**

Exploration of the translation of literary classics from print to film medium. Consideration given to editing, directorial interpretation, camera work, music, set design, and visual symbols.

#### **Musical Dimensions of Literature (Lit. & Music) (3)**

The attempt to "cross over" between the two disciplines, particularly in the musical expression of literary themes. Consideration also to musical aspects of literature. Various musical forms will be considered including opera, ballet, musicals, folk music, and symphonic music.



**Religious Dimensions of Literature (Lit. & Religion) (3)**

Examination of literature written to confirm or challenge belief. Literature that developed out of religious traditions (such as Morality drama) or practices (such as spiritual meditation); that articulates religious conceptions and belief; that challenges orthodoxies; or that reflects socio-historical attitudes to religion. The course may also include a "Bible as Literature" component - the Bible as repository of universal themes and myths as well as of narrative and lyric genres.

**Literature and the Law (3)**

The law and legal issues (trials, lawyers, investigations, laws) as themes and motifs in works of literature, with emphasis on the relationship between law, interpretation of law and justice, as well as political and historical contexts.

**Literature in Translation/Cross Cultural Approaches to Literature (3)**

A comparative approach to literature read in translation enriched by emphasis on differing cultural (i.e., national, group) attitudes, values, ways of life, roles, and historical and socio-economic conditions of life.

**Man's Search for Meaning (3)**

A selection from the Great Books, both ancient and modern, studied from the perspectives of theology, philosophy, aesthetics, and psychology in order to see what kinds and level of reality they focus on, what they perceive, and how they value it. Through discussion of the great ideas which emerge and through reflections of different epistemological approaches to reality, students will be encouraged to clarify their own views of reality, to find relationships among them, and to refine their own value systems.

**301 Humanities in the 20th Century (3)**

Interdisciplinary approach to the history, drama, art, music, philosophy, and literature of the twentieth century; selected cultural activities. (Special course fee)

**INSTRUCTIONAL ACTIVITIES IN SPORT AND RECREATION**

The program of courses focuses on general fitness, lifetime sport and recreational opportunities. Offering diversity in choice, the program provides instructional and recreational experiences available to the entire University community. Courses are designed to promote physical and mental well-being through the development of lifestyle that includes physical activity. The variety of individual activities and skill levels affords each student a choice to suit needs and desires. The student has the opportunity to develop competency in selected activities in order to maintain fitness for living, to provide a foundation for worthy use of leisure time, and to prepare for life-long recreational involvement.

**INSTRUCTIONAL ACTIVITIES IN SPORT AND RECREATION  
Course Offerings**

All 100 level courses are two semester hours of credit. Activities may have a special course fee.

- ISR 101 Aerobic Exercise
- ISR 110 Archery
- ISR 115 Bowling
- ISR 120 Canoeing
- ISR 125 Fencing
- ISR 130 Golf
- ISR 135 Judo and Self-Defense
- ISR 140 Physical Fitness Principles
- ISR 145 Physical Fitness Running and Jogging
- SR 150 Sailing

- ISR 155 Skin and SCUBA Diving
- ISR 160 Swimming
- ISR 165 Tennis
- ISR 170 Weight Training
- ISR 211 Lifeguard Training
- ISR 212 First Aid and CPR
- ISR 213 Advanced SCUBA Activities
- ISR 214 Water Safety Instructor
- ISR 300 Special Topics

### **Course Descriptions — Instructional Activities in Sport and Recreation Prefix: ISR**

(Activities may have a special course fee)

#### **211 Lifeguard Training (2)**

Personal safety, self-rescue, and rescue of others in, and around the water; American Red Cross Advanced Lifesaving Certification. Prerequisite: ISR 212

#### **212 First Aid and CPR (2)**

American Red Cross Standard First Aid and Personal Safety course. 21 hours and 8 hour course in Cardio Pulmonary Resuscitation.

#### **213 Advanced Scuba Activities (2)**

A course designed to educate entry-level divers and non-RDM majors in advanced diving theories and techniques. Lecture topics include diving physiology, diving equipment function, U/W navigation and diving techniques for special environments. Activities include night dives, deep dives (within specified limits) wreck dives, search and recovery dives and skill enhancing pool sessions. Students successfully completing the course will receive an advanced open water certification from a nationally recognized diver training agency. Prerequisite: ISR 155 and Open Water SCUBA Certification or Basic SCUBA Certification and permission of the instructor.

#### **214 Water Safety Instructor (2)**

Methods of teaching swimming and lifesaving; American Red Cross Water Safety Certification. Prerequisite: PHE 264. Prerequisite: ISR 211, 212.

#### **300 Special Topics (1-3)**

Content to be determined each semester by the Department as requested by faculty and/or students to fill specified needs or interests.

### **INTERNATIONAL STUDIES**

International studies is an interdisciplinary major for students interested in global political, social, cultural, and economic affairs. The major has social science, business, and cultural components. The first of these entails the study of international relations, comparative government, and history. The second component provides basic business skills and an understanding of international business forces. The final component is aimed at greater understanding of other societies and cultures.

The program of study shown below indicates the minimal requirements. Students should consult their advisor for course selections appropriate to their area of interest and career goals. The minimum grade of C is required in all major courses. The program of study includes:

1. The social science component (24 credits) will include history (12 credits) and political science (12 credits).



2. The business component (30 credits) will include CIS 180, BUS 181, ACC 201-202, ECO 201-202, 351 466, MGT 305, MKT 306.
3. The cultural component (24 credits) will include ANT 243, philosophy (6 credits), and language and literature (15 credits).
4. The remaining distributive requirements (24 credits) will be fulfilled through ENG 111-112, MAT 108, 152 and an elective in each of these areas: Art, Science, Speech, Theology.
5. In their remaining coursework, (18 credits) students are encouraged to strengthen each component of the major.
6. The integrative experience will consist of a research paper or internship as approved by the program advisor.

## **JOURNALISM**

Journalism is an area in which the ideals of professional education are compatible with those of a liberal arts education. Students minoring in journalism must earn a minimum of 21 credits, including JOU 207, 243, 345. The remaining courses may include JOU 309, 315, 470, 495, 498; ENG 310: Advanced Grammar; ENG 312: Advanced Composition.

### **Course Descriptions — Journalism Prefix: JOU**

#### **207 Introduction to Journalism (3)**

Covers the fundamentals of modern journalism, both writing and production. Students learn about writing style for specific types of articles, copy editing and proof-reading, typography, page make-up, photojournalism, advertising, and journalism ethics.

#### **241 The Press in Contemporary Society (3)**

Tracing developments from the colonial press, study of the structure and performance of the press, in historical perspective, as it interacts with other contemporary social institutions.

#### **243 News Reporting and Editing (3)**

Thorough groundwork in news gathering and writing. Prerequisite: JOU 208 or equivalent.

#### **300 Special Topics (3)**

Public Information and Public Affairs Reporting; Reporting in Urban and Metropolitan Affairs; Local Government, Public Policies, and Reporting; Environmental Ideology and Reporting; Public Affairs, Investigative, and In-depth Reporting; Magazine Writing (Reviews and Criticism); Writing for Religious Publications.

#### **309 Sports Writing and Editing (3)**

Practical experience in developing an acceptable sports writing style. Topics included are: interviewing, providing background information, preparing articles on sports related topics. Prerequisite: JOU 208 or equivalent.

#### **315 Photojournalism (3)**

Emphasis upon direct visual communication and effective photographic documenting of events. Prerequisite: ART 203 (Same as ART 315).

#### **345 Copy Editing and Layout (3)**

Techniques of page make-up, typography and photo-copying. Practice in headline writing, editing, cut-lines, and copy-processing. Prerequisite: JOU 208 or equivalent.

#### **470 Seminar in Journalism (3)**

Investigations of problems leading to the development of a series or of free-lance articles for publication. Prerequisite: JOU 242 or equivalent.

#### **495 Communications Law (3)**

Relationship of mass media to society; responsibility, regulations and philosophy. (Same as COM 495)

#### **498 Broadcast Journalism (3)**

Principles of good journalism applied to electronic media. Extensive experience in field reporting and writing news copy. Same as COM 498. Prerequisite: COM 204

## **LIBERAL STUDIES**

The Liberal Studies major is offered to students with career goals that require greater flexibility in a course of study than that provided by traditional majors and that require concentrated study in more than one discipline.

The course of study must be justified by a high level of coherence demonstrated in a plan and rationale that the student will submit to the program advisor. The student and the advisor will discuss the plan, its rationale, and its goals, and, in consultation with faculty in the primary and secondary disciplines, will determine the courses to be taken, as well as a final integrative project appropriate to the student's plan.

All courses taken in the area of concentration as well as in the secondary area(s) must be courses above and beyond those taken to fulfill distribution requirements.

The minimum grade of C is required in all courses in the area of concentration and in the secondary area(s).

The course of study will consist of one area of concentration (21-30 cr.) chosen from among the disciplines in the liberal arts (Art, Chemistry, English, French, History, Mathematics, Music, Philosophy, Political Science, Psychology, Sociology, Spanish, Theatre, and Theology); and at least two secondary areas (12-18 cr. each) chosen from among the disciplines above and from Journalism, Physics, and Speech, as well as from offerings in Business, Computer Science, and Biological Sciences; Communication, Sport Sciences, and Criminal Justice. A minimum of 24 credits will be at upper-division level.

## **MATHEMATICAL SCIENCES**

A major in the mathematical sciences is intended for students who wish to build a strong foundation for careers in mathematics teaching, in computer-related areas, in engineering, in actuarial sciences, or who wish to pursue further study in the mathematical sciences at the graduate level for college teaching, research, government and/or industry.

Barry offers a variety of courses and educational experiences within the mathematical sciences. The courses cover the main areas of Algebra, Analysis and Topology at the undergraduate level, as well as Physics and Computer Science. Placement in mathematics courses is determined by diagnostic testing, required at the time of first enrollment from all new undergraduate students (Freshmen, transfer, non-degree).

### **Mathematical Sciences Major**

The mathematics courses towards a major in Mathematical Sciences are divided into two categories: core courses and electives. The Mathematical Sciences major requires a grade of C or better in all courses towards the major, with at least 18 credits in mathematics at the 300 level or above. Core courses are required of all students majoring in Mathematical Sciences.



At least two electives must be chosen from a list of offerings by the Department. Each student is assigned a faculty advisor, who will help him/her in his/her academic plans. Students are encouraged to take courses in other areas such as Accounting, Biology, Chemistry, Computer Science, Economics, Management and Physics, in order to enhance their scientific background and understand the relevance of mathematics in other fields.

Students in Mathematical Sciences are strongly urged to develop proficiency in computer languages and in using computers, as they have become an important part of modern technology, both in education and in industry.

### Academic requirements

Core courses:	Credits
MAT 211 Calculus I	4 credits
MAT 212 Calculus II	4 credits
MAT 213 Calculus III	4 credits
MAT 271A, B, C Fundamental Topics in Mathematics I	1, 2 or 3 credits
MAT 272A, B, C Fundamental Topics in Mathematics II	1, 2 or 3 credits
MAT 314 Differential Equations	3 credits
MAT 331 Algebraic Structures	3 credits
MAT 332 Linear Algebra	3 credits
MAT 356 Statistics for Science	3 credits
MAT 361 Undergraduate Mathematics Seminar I	1 credits
MAT 362 Undergraduate Mathematics Seminar II	1 credits
MAT 363 Undergraduate Mathematics Seminar III	1 credits

In addition, each major must take two Physics courses: either PHY 201, 202 or PHY 211, 212, with 4 credits each and:

CS 221 Computer Programming I	3 credits
CS 251 Computer Programming II	3 credits

### Electives courses:

MAT 250 Discrete Mathematics	3 credits
MAT 300 Special Topics (Content varies each semester)	3 credits
MAT 310 Advanced Calculus I	3 credits
MAT 311 Advanced Calculus II	3 credits
MAT 321 Topics in Geometry	3 credits
MAT 414 Methods of Mathematical Physics	3 credits
MAT 415 Introduction to Real Analysis	3 credits
MAT 416 Introduction to Complex Analysis	3 credits
MAT 441 Introduction to Topology	3 credits
MAT 451 Probability Theory	3 credits
MAT 452 Mathematical Statistics	3 credits
MAT 459 Independent Study	3 credits
MAT 462 Number Theory	3 credits
MAT 471 History of Mathematics	3 credits
MAT 476 Teaching Mathematics in the Middle and Secondary Schools	3 credits

Students planning to major in Mathematical Sciences with a concentration in Computer Sciences should add two Computer Sciences (CS) courses. Students who seek Teacher Certification to teach in secondary schools must take MAT 321 and MAT 476, and may delete MAT 314 and CS 251. They are also encouraged to take MAT 471. Students who are registered in the dual degree (Pre-Engineering) program must consult this catalog under "Engineering." Students wishing to specialize in actuarial science must take MAT 451 and MAT 452.

### **Mathematical Sciences Minor**

A minor in Mathematical Sciences consists of at least 20 credits above the 210 level and must include MAT 211, MAT 212 and MAT 213 or MAT 250, and at least one course numbered 300 or above.

### **Pre-Engineering**

A student can be a mathematics major and also participate in a dual degree program, whereby a Barry University Bachelor's degree in Mathematics is obtained, and a University of Miami Bachelor's degree in Engineering is received at the end of the program. For more information, please consult the section on Pre-Engineering in this Catalog.

### **Departmental Requirements**

During the senior year the student must satisfactorily pass a Departmental Area Test as a prerequisite for graduation. The goal of this test is to demonstrate: a) good skills in problem solving, b) adequate use of mathematical reasoning in proving mathematical results, and c) a comprehensive and synthetic view of the mathematical sciences, with appropriate use of concepts and theorems learned during the course of study.

One semester of internship will be required. The student will devote 30 hours of supervised mathematics tutoring in the Learning Center or some equivalent task. This internship experience is included in the program in order to provide the student with a hands-on experience of the teaching-learning process, develop the student's own potential as a communicator of knowledge, and be of service to the community, in the spirit of the Barry University mission statement.

The following courses fulfill in part the Gordon Rule relative to courses at or above the level of college algebra: MAT 101, MAT 108, MAT 109, MAT 110, MAT 111, MAT 152, MAT 201, MAT 202, MAT 211, MAT 212.

### **Course Descriptions — Mathematics Prefix: MAT**

#### **090 Pre-Entry Math (3)**

This course prepares students to take MAT 100A. A variety of individualized learning strategies used, including programmed materials, computer-aided instruction, and one-on-one tutoring. The course does not fulfill distribution or degree requirements. CR/PR/NC option only. Placement in this course is by appropriate score on the placement test.



**100a Preparatory Mathematics I (3)**

Introduction to algebra; includes polynomials, factoring, solving linear and quadratic equations; emphasis on problem solving skills. Prepares students for MAT 100B and does not fulfill distribution or degree requirements. CR/PR/NC options available. Placement in this course is by appropriate score on the placement test. Three graded attempts maximum.

**100b Preparatory Mathematics II (3)**

Continuation of MAT 100a. Graphs, systems of linear equations, inequalities, fractional and radical expressions, fractional, radical and quadratic equations; emphasis on problem solving skills. This course does not fulfill distribution or degree requirements. CR/PR/NC options available. Prerequisite: MAT 100a or equivalent score on placement test.

**100c Preparatory Mathematics III (3)**

Basic properties of real and complex numbers, equations and inequalities, coordinates and graphs, equations and graphs of lines. The course prepares science majors to take Precalculus courses, but does not fulfill distribution or degree requirements. CR/PR/NC options available. Prerequisite: MAT 100b or equivalent score on placement test.

**(In case of doubt about the placement of a student, the Mathematics Chair should be consulted.)****101 General Education Mathematics (3)**

Nature and application of mathematics for Liberal Studies students. Topics selected from algebra, geometry, logic, numeration systems, probability, and statistics, as required by the state of Florida CLAST examination. Prerequisite: MAT 100b or satisfactory score on placement test.

**108 Precalculus Mathematics for Business (3)**

Equations and inequalities; systems of equations and inequalities; exponential and logarithmic functions and their graphs; vectors, matrices, applications to linear programming. Prerequisite: MAT 100b or satisfactory score on the placement test.

**109 Precalculus Mathematics I (3)**

Functions and their graphs; polynomial, algebraic, exponential and logarithmic functions, roots of algebraic equations. Prerequisites: High school Algebra I and II, geometry, and MAT 100c or satisfactory score on placement test.

**110 Precalculus Mathematics II (3)**

Trigonometric functions of angles and of real numbers, trigonometric identities and equations, extension of coordinate geometry. Prerequisites: MAT 109 or departmental approval.

**111 Precalculus Mathematics Accelerated (4)**

Elementary functions, graphs and applications; polynomial, algebraic, exponential, logarithmic, and trigonometric functions; extension of coordinate geometry. Prerequisite: High school Trigonometry or departmental approval.

**152 Elementary Probability and Statistics (3)**

Description of sample data; probability; sampling; special distributions; estimation; testing hypotheses; applications. Not open to mathematics majors or minors. Prerequisite: MAT 100b or satisfactory score on placement test.

**201 Fundamentals of Mathematics I (3)**

Logic, sets, and integers; fundamentals of integer arithmetic, integer algorithms, extensions of integer systems; equations and inequalities; metric system. Emphasis on problem solving. Prerequisite: MAT 100b or satisfactory score on placement test.

**202 Fundamentals of Mathematics II (3)**

Informal plane and space geometry, measurements; metric system; coordinate geometry; introduction to probability and statistics; introduction to computers. Emphasis on problem solving. Prerequisite: MAT 201 or departmental approval.

**211 Calculus I (4)**

Limits of functions and approximation; differentiation and integration of elementary functions; maxima and minima applications. Prerequisites: MAT 110 or 111 or departmental approval.

**212 Calculus II (4)**

Advanced techniques of differentiation and integration; polar coordinates, sequences and series. Prerequisite: MAT 211 or departmental approval.

**213 Calculus III (4)**

Multivariable calculus; functions of several variables; partial derivatives; multiple integration; theorems of Green, Gauss and Stokes; introduction to linear differential equations. Prerequisite: MAT 212 or departmental approval.

**250 Discrete Mathematics (3)**

Elements of number theory; sets, functions and relations; logic, truth tables and logic circuits; methods of proof and mathematical induction; permutations and combinations; graphs, trees and Boolean algebra. Prerequisite: Precalculus mathematics or Departmental approval.

**271 Fundamental Topics in Mathematics I (1, 2 or 3 credits)**

The course consists of three modules, of one credit each. The student will receive as many credits as modules he/she passes.

Module A: Set theory. Unions, intersections, complements, difference, symmetric difference, Cartesian products. Relations, functions and operations. Injective, surjective and bijective mappings. Countability: finite and infinite sets Uncountable sets.

Module B: Logic, Statements, truth sets and truth tables. Conjunction and disjunction. Conditional sentences. Necessary conditions and sufficient conditions. Mathematical induction. Propositional logic.

Module C: Number Theory. Prime and composite numbers. Fundamental Theorem of Arithmetic. The infinitude of primes. Congruences. Theorems of Euler, Fermat and Wilson. Prerequisite: MAT 110 or departmental approval.

**272 Fundamental Topics in Mathematics II (1, 2 or 3 credits)**

The course consists of three modules, of one credit each. The student will receive as many credits as modules he/she passes.

Module A: Combinatorics. Permutations and combinations. The binomial and the multinomial theorems. Recurrence relations. Simple applications to graphs.

Module B: Complex Numbers. Complex algebra. Complex distance and complex geometry. Complex powers and roots. DeMoivre's theorem. Statement of the Fundamental Theorem of Algebra.

Module C: Geometry. Review of Euclidean geometry. Vectors in the plane and in space. Properties of triangles. An introduction to the geometry of surfaces. Prerequisite: MAT-271 or departmental approval.

**300 Special Topics (3)**

Contents to be determined each semester by the Department to meet needs of the program and of the students. Prerequisite: Departmental approval.

**310 Advanced Calculus I (3)**

Functions, sequences, limits. Continuity, uniform continuity. Differentiation. Series, Uniform convergence. Prerequisite: MAT 213 or departmental approval.

**311 Advanced Calculus II (3)**

Continuation of MAT 310. Riemann-Stieltjes integral; functions of several variables, partial differentiation; multiple integrals. Prerequisites: MAT 310 or departmental approval.

**314 Differential Equations (3)**

Linear differential equations; systems of differential equations; solutions by series and by numerical methods; applications. Prerequisite: MAT 212.

**321 Topics in Geometry (3)**

Topics selected from Euclidean and non-Euclidean geometry, including: geometric proofs from an axiomatic viewpoint; incidence and separation properties of the plane and the space; extension of congruence, area and similarity; advanced topics. Prerequisite: MAT 213 or departmental approval.

**331 Algebraic Structures (3)**

Groups, Lagrange's theorem; fundamental theorem of homomorphisms. Rings, integral domains, field of quotients, polynomial rings, unique factorization domains. Fields and finite field extensions. Prerequisite: MAT 213 and MAT 272 or departmental approval.

**332 Linear Algebra (3)**

Systems of linear equations; matrices; vector spaces; linear transformations; determinant; quadratic forms; eigenvalues and eigenvectors. Prerequisite: MAT 211 or departmental approval.

**356 Statistics for Science (3)**

Analysis of data, histograms, measures of central tendency and of dispersion. Probability, normal curve. Statistical tests; hypothesis testing. This course is designed for science majors (Biology, Physics, Chemistry, Computer Science, Mathematical Sciences). Prerequisites: MAT 211 or departmental approval.



**361 Undergraduate Mathematics Seminar I (1)**

**362 Undergraduate Mathematics Seminar II (1)**

**363 Undergraduate Mathematics Seminar III (1)**

Content will vary according to need. Emphasis on logical thinking, mathematical proofs and problem solving. Prerequisite: MAT 211 or departmental approval.

**414 Methods of Mathematical Physics (3)**

Fourier analysis, special functions, calculus of variations. Selected partial differential equations. Integral equations. Prerequisites: MAT 213 and MAT 314 or departmental approval.

**415 Introduction to Real Analysis (3)**

The real numbers, real functions. Measure theory. The Lebesgue integral. Prerequisites: MAT 271 and MAT 311 or departmental approval.

**416 Introduction to Complex Analysis (3)**

Analytic functions, Cauchy-Riemann conditions. Complex integration, Cauchy's theorem and integral formula; power series, Laurent series. Calculus of residues and applications. Prerequisites: MAT 213 or departmental approval.

**441 Introduction to Topology (3)**

Axiom of choice, topological spaces, metric spaces. Compactness, connectedness. Separation properties, quotient spaces. Compactification. Prerequisite: MAT 311 or departmental approval.

**451 Probability Theory (3)**

Probability spaces, distribution functions, central limit theorem, conditional probability. Prerequisites: MAT 213 and MAT 356 or departmental approval.

**452 Mathematical Statistics (3)**

Sampling theory, statistical inference, hypothesis testing. Prerequisite: MAT 451 or departmental approval.

**462 Number Theory (3)**

The integers, congruences, multiplicative functions, primitive roots, quadratic residues, reciprocity, diophantine equations, applications to cryptology. Prerequisites: MAT 212 and MAT 272 or departmental approval.

**471 History of Mathematics**

People and ideas that have shaped the course of events in Mathematics. Contemporary problems and leading contributions. Emphasis on activities for secondary school mathematics classroom, which incorporate the historical viewpoint. Prerequisite: MAT 211 or departmental approval.

**476 Teaching Mathematics in the Middle and Secondary School (3)**

Methods of mathematics teaching for the prospective middle and secondary school teacher. Prerequisite: 21 credits in mathematics, including Calculus I, and candidacy in the School of Education.

**359, 459 Independent Study (3) (3)**

Opportunity for extensive research in areas of special interest to the student. Prerequisite: approval of Dean, and Department Chair.

**MUSIC**

The Music Department offers a minor in Music. A minimum of 22 credits is required for a minor, including MUS 109, 110, a choice of two of the three Music History courses; two semesters of University Chorale, six credits in Applied Music, plus two elective credits.

The Department also offers distribution courses and courses required for education majors for certification.

MUS 109	Theory I	3
MUS 110	Theory II	3
MUS 123	Applied Music	6
MUS 327	History (Baroque & Classic)	3
MUS 328	History (Romantic)	3
MUS 329	History (20th Century)	3
MUS 180/380	University Chorale	1
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## Course Descriptions — Music Prefix: MUS

### **108A Rudiments of Music (3)**

Review of fundamental concepts including notation, rhythm, pitch and intervals; basic preparation for students wishing to develop music reading skill, may not be applied toward major.

### **108B Listening to Music (3)**

Emphasis on the development of techniques for listening analytically and critically; representative examples drawn from various musical periods.

### **109 Theory I (3)**

Correlated study of the melodic, rhythmic, and harmonic elements of music; includes ear-training and keyboard work.

### **110 Theory II (3)**

Continued study of the elements of music; presentation of harmonic practice on a historical basis; continued work in ear-training and keyboard.

### **123 Applied Music (1 or 2)**

Private lessons for non-majors; one-half hour private lesson, 1 credit; one hour private lesson, 2 credits; may be repeated for additional credit.

### **180/380 University Chorale (1)**

First four semesters of enrollment, 180; fifth and subsequent enrollment, 380.

### **186/386 Ensemble (1)**

Selected ensembles; student may enroll concurrently in two different ensembles.

### **191/391 Show Choir: Barrytones (1)**

Open by audition only; first four semesters of enrollment 191; fifth and subsequent enrollments, 391.

### **300 Special Topics (1-3)**

Course content designed to fill specific needs or interests.

### **316 Survey of Electronic and Computer Music (3)**

Discussion of the beginnings and evolution of electronic and computer music and its implications in 20th century music.

### **317 Survey of Romantic and 20th Century Music (3)**

Development of styles, including extra-musical influences.

### **318 Survey of the Pre-Classical and Classical Periods (3)**

Historical development of music with emphasis on the Baroque and classical period.

### **376 A,B,C. Teaching Music in the Elementary Schools (1-3)**

Organized in modules; open only to Junior and Senior elementary education majors. This course approaches the actual music classroom situation from the standpoint of the non-music specialist and is meant to prepare general elementary teachers for classroom music teaching.

### **376A Music Rudiments (1)**

Fundamental concepts of such elements as rhythm and pitch; may be passed by exemption examination.

### **376B Classroom Instruments (1)**

Playing techniques of instruments commonly used in the classroom; discussion includes percussion, wind and string types; may be passed by exemption examination.

### **376C Use of Classroom Practices (1)**

Use of music, methods and materials which the elementary teacher can use to develop and guide musical experiences within the classroom required of all students enrolled in Music 376.

## PEACE STUDIES

In the May 1983 pastoral letter "The Challenge of Peace: God's Promise and Our Response," the American bishops wrote:

We urge universities, particularly Catholic universities in our country to develop programs for rigorous, interdisciplinary research, education and training directed toward peacemaking expertise.



As a response to this mandate, the School of Arts and Sciences offers an interdisciplinary minor in Peace Studies. The minor requires a minimum of 21 credits which must include POS 412 and either PHI 321 or THE 327. The courses should be chosen from those listed below or relevant special topics.

POS 325	International Relations
POS 395	International Organizations
POS 412	Conflict Resolution
PHI 292	Ethics
PHI 321	Philosophy of Peace and War
PHI 355	Philosophy of Politics
THE 120	Christian Understanding of the Human Person
THE 214	Contemporary Christian Morality
THE 327	Theology of Peace and Justice
HIS 404	American Diplomatic History, 1870 to Present

## **PHILOSOPHY**

Philosophy searches for wisdom and knowledge and is especially concerned with ultimate questions of existence and meaning. Philosophy explores the most basic yet wide ranging issues of human life and experience: truth, beauty, goodness, reality, freedom, mind, thought, knowledge, justice, language, faith, and so forth. The study of philosophy involves the rational examination of various positions on such issues. The study of the works of important philosophers and philosophical methods provides a basis for integration with other academic subjects. The goal is a consistent, coherent, and all-inclusive view of the world and human beings.

The philosophy faculty, representing a variety of philosophical interests, endeavors to develop students' analytical and reflective skills, and the capacity for independent thinking.

The program attempts to accomplish this mission by the following goals:

1. provide a broad historical background in philosophy,
2. assist students in the development of the philosophical method of analysis,
3. introduce important trends in contemporary philosophical thought, and
4. integrate philosophical knowledge with human experience.

### **Requirements For the Major**

The major consists of a minimum of 33 credits. Required courses: 150 or 153, 212, 292, 304 or 314, 316, 317, 318, 319, 487, and 6 elective credits.

A written departmental exam upon the courses taken by the student completes the requirements.

A minor consists of a minimum of 20 credits. Required courses: 212, a 300 level course in the history of philosophy, a 300 level Problems course and 11 elective credits.

## Course Descriptions — Philosophy Prefix: PHI

### **120 Critical Thinking (3)**

Enhancement and development of reasoning skills and argument analysis. Topics include the concepts of truth, verification, and knowledge; the subjective/objective distinction; the deductive/inductive reasoning; formal and informal arguments; awareness of common errors in informal reasoning.

### **122 Thought of Spain and the Americas I (3)**

Major trends in Hispanic and American thought from its origins through the 19th century in historical and cultural context; development of ideas and their influence on the hemisphere.

### **123 Thought of Spain and the Americas II (3)**

Major trends in Hispanic and American Thought of the late 19th and the 20th centuries in historical and cultural context; development of ideas and their influence on the hemisphere.

### **150 Philosophical Problems (3)**

An introduction to fundamental philosophical questions and areas of interest. Topics may include theories of truth and knowledge, the notion of beauty, concepts of goodness and evil, the nature of reality, the relation between body and mind, personal and social ethics, the existence and nature of God.

### **153 History of Philosophy (3)**

A survey of the historical development of philosophy, emphasizing prominent schools of thought and philosophers that have influenced the formation of Western thought throughout the ages.

### **160 Philosophy of the Human Person (3)**

Philosophical overview of human psychology: individual and social natures of human beings; their materiality and spirituality; human cognition, volition and freedom; differing order of human needs; powers and habits; unity within a complexity of activities, human destiny.

### **170 Contemporary Moral Problems (3)**

An introduction to fundamentals of ethical reasoning, various methodologies, and application to current topics in ethical discourse. Topics may include capital punishment, euthanasia, abortion, war and peace, pornography, poverty and hunger, environmental rights, animal rights, academic freedom, sexual discrimination, or other areas of interest.

### **212 Introduction to Formal Logic (3)**

The study of the principles of valid argument: deductive inference, syllogism and symbolic logic, including propositional and predicate logic.

### **292 Ethics (3)**

A study of fundamental elements in ethical theory: Analysis of the concept of moral goodness, the origins and nature of moral law and obligation, comparison of various moral systems for moral decision making. Discussion will include application through consideration of concrete examples.

### **300 Special Topics (3)**

Content to be determined each semester by the Department as requested by faculty and/or students to fill specified needs or interests.

### **302 Spanish and Spanish-American Philosophers (3)**

Major ideas of the most important Spanish and Spanish-American philosophers in their historical and cultural context; development of their ideas and their influence in Western culture; primary emphasis placed on Unamuno, Ortega y Gasset, Zubiri, Varona, Ingenieros, Vasconcelos, Romero, Francovich, etc.

### **304 Epistemology (3)**

Philosophical inquiry into the nature of knowledge, kinds of experience, belief and truth, justification and verification.

### **306 Philosophy of God and Religion (3)**

Philosophical investigation of the nature of the holy, faith and its relation of reason, religious language and symbol, proofs for the existence of God, religious experience and verification.

### **308 Philosophy of Law (3)**

Philosophies of law, including natural law theory, legal positivism, American legal realism, Marxism, and recent theories; relationship of law and morality; concepts of justice, responsibility and punishment; the conscientious objector.

### **313 Philosophy of Art (3)**

Philosophical study of the nature of art; relation between the various arts, concepts of beauty, the creative process, principles of art criticism, religious art and symbolism.



**314 Metaphysics (3)**

A discussion of the nature of reality. Topics may include the nature of being, principles of individuation, materiality and immateriality, predication and causation.

**315 Philosophy of Mind (3)**

Investigation of the nature and types of mental phenomena and our knowledge of them; the relation between mental events and the brain; mind/body interactions; artificial intelligence.

**316 Ancient Philosophy (3)**

An historical survey of the development of Western philosophy, including the pre-Socratics, Plato, Aristotle, the Stoics, Cynics, Skeptics, Plotinus.

**317 Medieval Philosophy (3)**

An historical survey of the development of Western philosophy, including the Patristic period, Saint Augustine, John Scotus Eriugena, Saint Anselm of Canterbury, Avicenna, Saint Bonaventure, Saint Albert the Great, Saint Thomas Aquinas, Scotus.

**318 Modern Philosophy (3)**

A survey of Western philosophy, from the 17th century to the mid-19th century, including Rationalism, Empiricism, Positivism, Kant and Idealism; emphasis on the continuity and development of metaphysical and epistemological ideas during the period.

**319 Contemporary Philosophy (3)**

A survey of the major branches of late 19th and 20th century thought: Marxism, American pragmatism, process philosophy, analytic philosophy, phenomenology, existentialism, hermeneutics and other recent developments, e.g. feminist philosophy.

**320 American Philosophers (3)**

European influences; Colonial thinkers; philosophy of the Founding Fathers; Transcendentalism; Pragmatism; Naturalism; recent developments.

**321 Philosophy of Peace and War (3)**

Classical and contemporary philosophical analysis of peace, war, and conflict between individuals, groups, and nations. Discussion of ethical questions concerning the initiation and the conduct of conflict, revolution, and war. Analysis of nonviolent resolution of disputes, of proposals for solving the problem of war, and of pacifism. Ethical aspects of nuclear weapons employment and the contemporary nuclear weapons dilemma.

**353 Bio-Medical Ethics (1-10)**

Interdisciplinary investigation of current ethical issues in health care and the medical, biological, and behavioral sciences; organized according to modules which may change each year.

**353a Ethical Foundations (1) (Prerequisite to all other modules)**

Philosophical ethics; professional codes of ethics; professional responsibilities.

**353b Genetics and Reproduction (1)**

Artificial insemination; genetic engineering; genetic counseling; genetic screening; cloning and in vitro fertilization; pre-natal diagnosis. Prerequisite: 453a.

**353c Limitation of Reproduction (1)**

Ethical issues relating to birth control, sterilization, and abortion with reference to social, psychological, biological, and legal aspects. Prerequisite: 453a.

**353d Ecological and Environmental Ethics (1)**

Ethical study of the effect of human intervention in the manipulation of the environment; epidemiological and moral consequences of ecological imbalance; pollution industrial health regulations. Prerequisite: 453a.

**353e Human Experimentation (1)**

Ethical aspects of clinical investigation; organ transplanation; informed consent to participation in research; institutional guidelines on human research; behavioral research; research on prisoners; mental patients, children, and fetuses. Prerequisite: 453a.

**353f Death and Dying (1)**

Care of terminally ill patients; decisions concerning withholding of life-saving treatment; defining death; the right to die and death with dignity; decisions about the newborn; suicide; euthanasia. Prerequisite: 453a.

**353g Health Care Delivery (1)**

An analysis of the structural and ideological interests that lead to numerous value conflicts within the health care system of the United States; DRG's cost containment vs. care containment; corporatization of medicine; patient transfers; plight of the medically indigent; medicalization; malpractice; societal and personal responsibilities regarding health care. Prerequisite: 453a.

**353i Population Ethics (1)**

Population trends and public policy; relationships existing between development, environment, and population; ethical aspects of population control. Prerequisite: 453a.

**353j Clinical Setting and Interaction (1)**

An analysis of the various life-worlds which inform the health care professional and influence role interaction, care process and patient outcome; paternalism vs. autonomy; truth telling; patients' rights; informed consent; patient abandonment; institutional neglect; patient advocacy. Prerequisite: 453a.

**353m Mental Health (1)**

An analysis of the numerous structural forces, principles, concepts and indices affecting the delivery of care to the mentally ill and warranting ethical reflection; models of illness; labelling; deinstitutionalization; intrusive therapy; societal obligations; right to treatment; right to refuse treatment; incompetency; Baker Act; Civil Rights of Institutionalized Persons Act (CRIPA). Prerequisite: 453a.

**353n Geriatric Ethics (1)**

An analysis of policy and clinical issues that have evolved due to the confluence of demographic epidemiological, economic, political, medical, and legal forces which directly impinge upon the geriatric population; economic restraint vs. rising entitlement; autonomy; clinical evaluation for competency vs. the legal definition; informed consent; negotiated treatment; paternalism vs. therapeutic persuasion; surrogate decision-making; institutionalization vs. least restrictive alternative; quality of care; the life-care contract. Prerequisite: 453a.

**353o Communicative Diseases/Aids (1)**

An analysis of the ethical and social issues surrounding the treatment and prevention of communicative diseases with particular emphasis upon Acquired Immune Deficiency Syndrome. Patient rights; employer, housing, and insurance discrimination; Florida Civil Rights Act; Rehabilitation Act of 1973, Section 504; mandatory blood testing; reporting laws; confidentiality; duty to notify innocent third parties; restricting of occupational activity; drug efficacy issues; determination of price control of drugs; allocation of resources.

**355 Philosophy of Politics (3)**

Chronological treatment of the political theories of the major philosophers from classical to modern times.

**365 Advanced Argument Analysis (3)**

In-depth analysis of various types of argument, including those in knowledge theory and ethics, which relate to professional and social issues; verbal puzzles; categorizing schemas. Prerequisite: PHI 120.

**460 Philosophical Classics (3)**

Examination of the basic writings of an individual philosopher, of a school of philosophers, or of philosophers of an historical period.

**487 Seminar (3)**

Research and discussion on selected topics under direction of instructor.

**PHOTOGRAPHY**

The Photography major explores the creative photographic image and uses this as a vehicle for self-expression and visual communication.

Students seeking a Bachelor of Arts (B.A.) with a major in photography must complete a minimum of 30 credit hours in photography which will include 21 credits of the photography core. To demonstrate high professional standards, graduating photography majors must participate in a senior exhibition. This also fulfills the University's requirement for an integrative experience. Juniors are required to pass a faculty review before they begin preparing for their senior exhibition. A minimum grade of "C" is required in all major courses.



### **Photography Core (21 credits)**

ART 101B	2-D Design
ART 203	Basic Photography
ART 303	Intermediate Photography
ART 304	Color Photography
ART 403	Advanced Photography I
ART 404	Advanced Photography II
ART 414	Color Photography - Ciba

### **Additional Courses (9 credit minimum)**

ART 300	Special Topics in Photography
ART 307/308	A.V. Production I and II
RDM 308	Underwater Photography
ART 311	History of Art/Photography
ART 315	Photojournalism
ART 317	Photography-The Camera
ART 359	Independent Study
ART 399	Art Management
ART 407	View Camera Photography
ART 459	Independent Study

While still maintaining its creative identity, the photography major may be combined with a minor of a related discipline to provide the student with a versatile and practical program of study. Some recommended minors are Public Relations, Art, Journalism, and Business.

A minor in Photography requires completion of 21 credits within the discipline.

The University reserves the privilege of retaining student photographs for the purpose of exhibition or as part of the Department's permanent collection. The University also reserves the right to reproduce and publish student works.

See ART for course descriptions.

### **PHYSICS**

The study of physics helps to develop a habit of seeking and recognizing the underlying physical principles in observation of the environment. Offerings in physics are designed to meet the needs of students concentrating in science, mathematics, pre-engineering and the allied health areas; and to provide opportunities for liberal arts students to see the world around them with new understanding.

#### **Course Descriptions — Physics Prefix: PHY**

##### **105 Physical Science (1-3)**

Organized according to modules; student may elect as many as three modules during the semester; each module centers on one topic, which is developed through demonstration, lecture, and simple laboratory exercises.

##### **151 Introductory Physics (4)**

Basic concepts of physics, for students desiring a one semester course. 3 hours lecture, 2 hours laboratory. (\$20 fee)

**201, 202 General College Physics (4) (4)**

Mechanics, heat, wave phenomena, electricity and magnetism, optics, modern physics; for students of science and mathematics. 3 hours lecture, 3 hours laboratory. Prerequisite: MAT 111 or equivalent; recommended: MAT 211. (\$40 fee each)

**211, 212 University Physics (4) (4)**

Calculus based physics including mechanics, heat, wave phenomena, electricity and magnetism, optics, modern physics; for pre-engineering students and for students of science and mathematics desiring a calculus based physics course. 3 hours lecture. 3 hours laboratory. Prerequisite: MAT 211. (\$40 fee each)

**313 Statics (3)**

Principles of statics, rigid body equilibrium, trusses, frames, machines, friction, moments of inertia. Prerequisites: PHY 211, MAT 211.

**476 Teaching Physical Science in the Middle and Secondary Schools (3)**

Special methods course in teaching physical science in the middle and secondary schools. Prerequisite: a thirty hour content area in the physical sciences and candidacy in the School of Education. Tutorial.

**POLITICAL SCIENCE**

The Political Science program pursues three basic objectives; to explore the nature of politics — its purposes, limitations, and significance in human life; to promote understanding of the American regime; and to develop a capacity for intelligent evaluation of public policies and a sensitive awareness of opposing points of view in the political conflicts of our time.

Requirements for a major in political science are: 30 credits including POS 100, 201, 309, 325, and 425.

Graduation requirements include: 1) earning a minimum grade of C in all major courses, 2) successfully completing an approved internship (POS 499) or satisfactorily completing a comprehensive departmental exam at the end of the program. Also recommended are MAT 152, PHI 355, and ECO 201-202.

Requirements for minors are 21 credits, including POS 100, 201, 325, 425, and 499. Students may also elect to minor in American Political Studies. This concentration includes POS 201, 305, 306, 425, 429 and 499.

**Course Descriptions — Political Science Prefix: POS****100 Introduction to Political Science (3)**

Broad exposure to the field including discussion of the major approaches to the study of politics and government; questions asked by political scientists; major subfields within the discipline; and discussion and analysis of contemporary events.

**201 American Government (3)**

National Government and its structure; administrative and political practices of the central agencies of authority in the United States.

**300 Special Topics (3-6)**

Content to be determined by the Department according to the faculty and specific needs and/or interests of the students.

**305 The Executive Process (3)**

Study of the complexities of the executive process; particular attention devoted to the office of the President of the U.S. with emphasis on twentieth century incumbents.

**306 Legislative Process (3)**

Based upon an overview of the rule making process; analysis of the organization of U.S. Congress with particular attention to the role of Congress within this political system and the centrality of committees in the law making process.



**307 The Judicial Process (3)**

Overview of the adjudicative process; analysis of the organization and jurisdiction of the Federal Courts; contemporary constitutional issues in their historic content.

**308 Constitutional Law (3)**

Use of the case method approach, focus on the development of constitutional law. Prerequisite: POS 307.

**309 Comparative Government and Politics (3)**

Analysis of politics and government of western European democracies with some attention devoted to ancient regimes, Marxist systems, and less developed countries.

**325 International Relations (3)**

Analysis of relations among subnational, national, and supranational actors in the international system; foreign policy formation; quest for peace and security in a shrinking world.

**395 International Organizations (3)**

Study of the structure and functions of international organizations as well as their importance in the international arena; special attention will be devoted to the role of the United Nations and the European economic community.

**396 Latin American Politics (3)**

Detailed analysis of government and politics in select Latin American countries. Special attention will be devoted to authoritarian as well as revolutionary regimes.

**404 American Diplomatic II 1870 to Present (3)**

Significant topics in diplomatic history including the emergence of the US as a world power; the Cold War; decision-making in the Department of State and the role of interest groups in foreign policy. Same as HIS 404.

**406 Political Economy of Development**

Analysis of the process of political and economic development. Topics include modernization, industrialization, the new international economic order, the role of the state and military and ethical issues of development. Prerequisite: ECO 201 and 202 and Departmental approval. Same as ECO 406.

**408 Inter-American Relations (3)**

International relations between the U.S. and Latin America and the foreign policies of Latin American states.

**409 Research Methodology (3)**

Introduction to sociological research methods. Contemporary data collection and analysis techniques will be introduced. The assumptions, limitations, and implications of these techniques will be discussed. Same as SOC 409.

**412 Conflict Resolution (3)**

A study of contemporary approaches to structuring world peace; focus on nuclear deterrence, arms control, diplomacy, and negotiation.

**425 Political Theory (3)**

Inquiry into the nature of man and corresponding views of the res publica based upon classical and modern texts. Prerequisite: PHI 355/Departmental approval.

**429 Public Administration and Policy (3)**

Analysis of the nature of the field; structures and informal decision making processes as well as staff organization and chain of command; particular attention devoted to linkage between public agencies, public policy outputs, and the democratic process.

**476 Methods of Teaching Social Sciences, Grades 6-12 (3)**

Method of teaching social studies, emphasizing the integration of social science, a survey of problems confronting middle and secondary school social studies teachers, including an evaluation of courses and textbooks; instruction in the use of audio-visual materials. Prerequisite: Candidacy in the School of Education.

**487 Seminar (3)**

Guided individual reading and study; seminar discussions on selected topics and/or authors. Departmental approval required.

**499 Internship (3-6)**

Opportunity to integrate scholarly activities and the art of politics. Prerequisite: POS 100 and 201/Departmental approval. Requires a minimum of 120 or 240 hours.

**359, 459 Independent Study (3-6)**

Opportunity for extensive research in an area of special interest to the student. Dean and Departmental approval required.

**PRE-ENGINEERING**

Students planning to study engineering can prepare at Barry University. Completion of the pre-engineering program will allow a student to apply for transfer directly to the third-year program of an engineering school.

Required courses are PHY 211-212, CHE 111-112, MAT 211, 212, and 213, ENG 111-112, engineering graphics, and other courses in computer science. Additional required courses will be determined by the engineering area the student plans to pursue and will include courses from the following list: MAT 314, 152 or 352, PHY 313, CHE 243-244, ECO 201, BIO 101, 111, or 116, and additional courses in computer science. In addition to the above requirements, pre-engineering students will also take liberal arts courses in religion, philosophy, humanities and/or social sciences. (12 hours, usually one course per semester.) Some students will need a preparatory year of study including MAT 109-110 or 111, CHE 110, and language courses before taking the required courses listed above.

Early in their Barry pre-engineering Program students will be encouraged to contact specific engineering schools for specific pre-engineering requirements. Transfer to the engineering school is competitive and the physical and mathematical sciences department will advise each student individually.

See also the dual degree program described in this catalog under Engineering.

**PRE-LAW**

Pre-Law is an interdisciplinary major representing a variety of disciplines. Although the pre-law major does not rule out pre-law preparation through the pursuit of traditional majors in History, Accounting, English, etc., it offers the best immediate preparation for the LSAT that is required for entry into any law school. The pre-law major specifically aims for breadth of knowledge and considers its interdisciplinary components an excellent preparation for students not only to achieve a satisfactory LSAT score, but also to ensure sufficient preparedness to perform successfully at any professional law school.

The pre-law major consists of a 96-credit interdisciplinary program (45 credits in the distribution and 51 credits in the major). The remainder of the program is comprised of 24 credits in elective courses.

Students will include the following courses as part of the 45-credit distribution requirements in the following areas;

Oral and Written Communication — ENG 111, 112, SPE or COM elective  
Theology and Philosophy — PHI 120, 292, THE elective  
Humanities and Arts — 9 elective credit hours  
Mathematics and Science — MAT 152, 6 elective credit hours  
Social Sciences — HIS 101, POS 100, PSY 281



Students will include the following courses as part of the 51-credit major requirements in the five indicated component areas:

Philosophy (12 credit hours) — PHI 304, 308, 355, 365  
Political Science (12 credit hours) — POS 201, 307, 308, 425  
History (12 credit hours) — HIS 102, 201, 202, 400  
Business (12 credit hours) — BUS 181, 339; ECO 201, 202  
English (minimum 3 credit hours) — ENG 406

The balance of 24 credit hours completing the 120 credit hours course of study is to be chosen from electives to strengthen each component of the major with ENG 207, 310, 312 recommended as needed and with ACC 201, BUS 340, and SOC 370 especially recommended.

Students completing a pre-law major must maintain a minimum 2.5 cum GPA in their major and must obtain a satisfactory score on the LSAT (Law School Admission Test).

### **PRE-PHARMACY**

The student planning to study pharmacy can take up to two years of pre-pharmacy at Barry University. The curriculum in the School of Arts and Sciences, under the direction of the Department of Physical and Mathematical Sciences is made up of courses required in the first two years by most institutions granting the bachelor degree in pharmacy. These will include CHE 111, 111L, 112, 112L, 243, 243L, 244, 244L; PHY 201, 202; MAT 111 or 211; BIO 112, 116. Admission to these courses presumes adequate high school preparation. Students less well prepared will require a preliminary course in chemistry and, possibly, in mathematics.

Barry's pre-pharmacy program prepares the student to take the Pharmacy College Admissions Test (PCAT) and to apply to a College of Pharmacy. Pre-pharmacy students are expected to inform themselves of the specific requirements of the school to which they plan to transfer. Admission remains competitive.

### **PSYCHOLOGY**

The psychology major requires 30 credits in addition to MAT 152. The required courses include PSY 281, 320, 333, 382, 413, 490. The student is permitted wide flexibility in the choice of the remaining elective courses from the various sub-specialties of psychology.

The minimum grade of C is required in all major courses including Math 152. Psychology majors are required to achieve a satisfactory score on the advanced psychology test of the GRE.

The psychology minor (21 cr.) requires PSY 281, 320, 382, 413, and 9 elective credits within the discipline.

PSY 281 is a prerequisite to all other psychology courses.

### **Course Descriptions — Psychology Prefix: PSY**

#### **281 Introduction to Psychology (3)**

Survey of general principles underlying human behavior, including study of the nervous system, perception, learning, emotion, personality and mental disorders.

**300 Special Topics (3)**

Content to be determined by the Department as requested by faculty and/or students to fulfill specified needs or interests.

**306 Psychology of Women (3)**

Study of the various issues affecting the changing role of women in today's society; consideration given to psychological and social factors as they relate to contemporary feminine behavior.

**318 Psychology of learning (3)**

Study of the basic principles related to human and animal learning with special emphasis on the theoretical approaches utilized to explain various learning phenomena.

**320 Tests and Measurements (3)**

Testing instruments in clinical, educational, and industrial settings. Prerequisite: MAT 152.

**323 History and Systems (3)**

Consideration of the major historical schools of psychological thought and their relationship to the present-day discipline of psychology.

**325 Theories of Personality (3)**

Survey of theoretical approaches to the study of personality from Freudian theory to contemporary Humanistic theories.

**327 Psychology of Sport (3)**

Investigation of typical areas in theoretical and applied sport psychology which are relevant to athletic performance and general physical activity involvement. Prereq: PSY 281 (Also SMA 327)

**333 Experimental Psychology (3)**

Mastery of research methods and techniques with emphasis on experimental design; students conduct experiments, evaluate data, and write research reports. Prerequisites: PSY 281 and Statistics.

**343 Introduction to Perception (3)**

Survey of contemporary issues in the area of perception and the theories offered to explain perceptual phenomena.

**370 Social Psychology (3)**

Cognitive processes, roles, communication and persuasion, aggression and interaction within small and large groups. Same as SOC 370.

**382 Developmental Psychology (3)**

Analysis of human developments from conception through maturity, with emphasis on physiological, cognitive and affective processes at the various stages of development.

**413 Abnormal Psychology (3)**

Theories of abnormal behavior, pathological syndromes, methods of treatment, and prevention.

**423 Industrial Psychology (3)**

Application of psychological principles and procedures in business and industry setting; consideration given to topics such as selection, placement, employee motivation, morale and leadership.

**449 Adolescent Psychology (3)**

Consideration of the physical, intellectual, social and emotional processes occurring during the adolescent years.

**452 Child and Adolescent Psychopathology (3)**

Comprehensive study of the etiology, diagnosis, and treatment of the personality disorders common to the child and adolescent. Prerequisite: PSY 382.

**459 Independent Study (1-3)**

Opportunity for independent research on a topic of special interest to the student. Dean and Departmental approval required.

**464 Human Development Throughout the Lifespan (3)**

Physical, social, sexual and emotional development throughout the lifespan with emphasis on growth crises at major developmental stages. Particular focus on an understanding of human sexuality and psychosocial relationships, including clinical applications, theories and techniques. Prerequisite: PSY 382.



**490 Physiological Psychology (3)**

Study of basic neuroanatomy and neurophysiology including the neurological bases of emotion, psychopathology, sleep, memory, and learning.

**494 Substance Abuse (3)**

Consideration of habituating and addicting drugs including alcohol and their effects upon society.

**496 Techniques of Therapy (3)**

Theories and techniques of individual psychotherapy, behavior modification and group approaches. Prerequisite: PSY 325, 413 or permission of instructor.

**295, 395, 495 Research (3) (3) (3)**

Investigation of an original research problem of special interest to the student; independent execution of chosen experimental work or library research; under direction of selected staff member MARC scholars follow a special research program. (\$30 fee)

**498 Seminar (3)**

Advanced topics

**499 Internship (3)**

Provides selected Psychology majors with senior status the opportunity to work in an applied setting. Practical experience can be gained in a variety of areas of Psychology depending on the availability of placements and the student's interests. All internships must be approved by the faculty member supervising the internship before the student registers.

**PUBLIC RELATIONS**

The B.A. in Public Relations is designed to provide the student with the knowledge essential for entry in the Public Relations profession. Emphasis is placed on strong writing skills, knowledge of media production, effective human relation abilities, public speaking, and P.R. principles. In addition, the student is directed towards broad exploration of the liberal arts to enhance knowledge in a wide variety of professional contexts.

**Distribution Requirements**

**45 hours**

**Major Requirements:**

COM 201	Survey of Communication	3 hours
COM 204	Writing for the Media	3 hours
COM 214	Television Production	3 hours
COM 390	Case Studies in P.R.	3 hours
COM 391	Principles of P.R.	3 hours
COM 393	Verbal Message Encoding	3 hours
COM 495	Communication Law	3 hours
COM 496	Electronic Media Advertising	3 hours
COM 498	Broadcast Journalism	3 hours
ENG 211	Technical Writing	3 hours
ENG 312	Expository Writing	3 hours
JOU 208	Techniques of Reporting	3 hours
JOU 242	News Writing	3 hours
ART 203	Basic Photography	3 hours
ART 205	Basic Graphic Design	3 hours

**Guided Electives:** ..... 30 hours

**Degree Total:** ..... 120 hours

**Public Relations Minor**

COM 201	Survey of Communication	3 hours
COM 204	Writing for the Media	3 hours
COM 390	Case Studies in P.R.	3 hours
COM 391	Principles of P.R.	3 hours
COM 493	Message into Medium	3 hours
ART 205	Introduction to Graphic Design	3 hours
ENG 312	Expository Writing	3 hours

Total 21 hours

**RECREATIONAL DIVING MANAGEMENT**

The Bachelor of Science Degree in Recreational Diving Management consists of 120 semester hours including thirty-six semester hours (36 s.h.) of interdisciplinary coursework primarily from the recreational diving management curriculum. It has been developed with a two-track format, and students may follow either track. A minor (21 semester hours) in Business is required for both tracks of the program. The diving courses lead to internationally recognized certifications in the various study areas. The minimum grade of C is required in all major courses.

**Track 1** is designed to prepare the student for careers in the diving instructional and retailing industries. Courses listed assume that the student has at least an Open Water SCUBA Certification from a nationally recognized Diver Training Agency before beginning the major. The SCUBA Instructor Course (RDM 404) meets the integrative experience requirement.

**Track 2** is designed to meet the continuing professional growth needs of diving professionals who are already certified as a SCUBA Instructor by any of the various nationally recognized diver training agencies. The student entering Track 2 must be fully certified as an instructor and in current "teaching" status prior to acceptance into the program. Because of the nature of the program, the Track 2 student must remain in current active "teaching" status, and carry professional liability insurance which includes the University as an additional insured. The Instructional Staff course (RDM 405) meets the integrative experience requirement.

All students in the Recreational Diving Management Program will be required to obtain a yearly physical exam for diving. Students entering the program for the first time should obtain a standardized form from Barry University (required) and acquire the physical exam prior to their arrival on campus.



## TRACK I

<b>Distribution</b>		Credits
ENG 111	English Composition and Literature	3
ENG 112	Techniques of Research	3
SPE 101	General Speech	3
	Theology/Philosophy	9
	Humanities/Art	6
ART 203	Basic Photography	3
MAT 108	Precalculus Mathematics for Business	3
MAT 152	Elementary Probability and Statistics	3
BIO 220	Human Anatomy	4
	Social/Behavioral Sciences	6
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		43

<b>Minor in Business</b>		Credits
BUS 181	Concepts of Business Behavior	3
ACC 201	Financial Accounting	3
ECO 201	Principles of Economics I	3
MGT 305	Management Concepts and Applications	3
MKT 306	Marketing Concepts and Applications	3
	Choice of Two electives: BUS 339, 371, MGT 409, or MKT 384	6
		<hr/>
		21

<b>Major</b>		Credits
CIS 180	Intro to Computers	3
BIO 240	Intro to Human Physiology	5
RDM 222	First Aid for Diving	2
RDM 230	Recreational Diving Theory I	3
RDM 240	Recreational Diving Theory II	3
RDM 302	Recreational Diving Leader	3
RDM 304	Recreational Diving Specialities	3
RDM 308	Underwater Photography	3
RDM 314	SCUBA Equipment Repair and Maintenance	3
RDM 325	Seamanship	2
RDM 400	Dive Store Retailing	2
RDM 404	SCUBA Instructor	3
		<hr/>
		36

<b>Electives (recommended for Tracks 1 and 2)</b>		Credits
MKT 382	Advertising	3
SMA 385	Legal Aspects of Sport or BUS 339 Business Law I	3
	Electives	14
		<hr/>
		20

**Total** **120 credits**

**TRACK 2****Distribution**

	Credits
ENG 111 Eng. Comp. and Lit.	3
ENG 112 Tech. of Research	3
SPE 312 General Speech	3
Theology/Philosophy	9
Humanities/Art	6
ART 203 or ART 303 or ART 304	3
MAT 108 Precal. Math for Bus	3
MAT 152 Elem. Prob. & Stat.	3
BIO 220 Human Anatomy	4
Social/Behavioral Science	6
	43

**Minor in Business**

	Credits
BUS 181 Conc. of Bus. Behavior	3
ACC 201 Financial Accounting	3
ECO 201 Prin. of Econ. I	3
MGT 305 Mngt. Conc. and Applic.	3
MKT 306 Mrkt. Conc. and Applic.	3
Choice of two electives:	
BUS 339, 371, MGT 409 or MKT 384	6
	21

**Major**

	Credits
CIS 180 Intro. to Computers	3
BIO 240 Intro. to Human Phys.	5
RDM 222 First Aid for Diving	3
RDM 230 Rec. Diving Theory I	3
RDM 241 Teaching Rescue Diver and Divemaster	3
RDM 303 Medic First Aid Instructor	3
RDM 305 Teaching Rec. Diving Specialties	3
RDM 309 Teaching Underwater Photography	3
RDM 314 SCUBA Repair & Maint.	3
RDM 325 Seamanship	2
RDM 400 Dive Store Retailing	2
RDM 405 Instructional Staffing	3
	36

**Electives (recommended for Track 1 and 2)**

	Credits
MKT 382 Advertising	3
SMA 385 Legal Aspects of sport or BUS 339 Business Law I	3
Electives	14
	20

**Total****120 credits**

Note: All Track 2 students participate in a four day Instructor Orientation course prior to admission into the Track 2 program. This is conducted prior to the beginning of the Fall Semester and carries an additional course fee and certification charge.



## RECREATIONAL DIVING OPERATIONS MINOR

The minor in Recreational Diving Operations requires a minimum of 24 semester credits. Students must successfully complete 12 credits of RDM certification courses, and an additional 7 credits in diving career-related courses and the remaining credits from the list of appropriate electives. A co-requisite of MAT 152 is required for the minor.

<b>Required Diving Certification Courses</b>		Credits
RDM 230	Recreational Diving Theory I	3
RDM 240	Recreational Diving Theory II or	3
RDM 241	Teaching Rescue and Divemaster	
RDM 302	Recreational Diving Leader or	3
RDM 303	Medic First Aid Instructor	
RDM 404	SCUBA Instructor or	3
RDM 405	Instructional Staffing	
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		12

<b>Required Diving-career related courses</b>		Credits
RDM 222	First Aid for Diving	3
BIO 220	Introductory Human Anatomy	4
		<hr/>
		7

<b>Choice of Electives (Choose any two)</b>		Credits
RDM 314	SCUBA Equipment Repair	3
RDM 400	Dive Store Retailing	2
CIS 180	Intro to Computers	3
ECO 201	Principles of Economics I	3
ACC 201	Principles of Accounting I	3
BUS 181	Concepts of Business Behavior	3
BUS 339	Business Law I	3
Any Marketing or Management Courses		5-6
(appropriate prerequisites as required)		

### Course Descriptions — Recreational Diving Management Prefix: RDM

#### 222 First Aid for Diving

A first aid course which discusses general first aid procedures and procedures specific to management of diving accidents. Successful students are eligible for Medic First Aid Certification. Special course fee and certification fee. Open only to RDM majors.

#### 230 Recreational Diving Theory I (3)

Recreational Diving I is both a theoretical and practical course. Topics covered include underwater navigation, altitude diving theory, an overview of differing techniques in special diving environments; physics, physiology, first aid, CPR, and lifesaving skills as they relate to diving. Openwater training includes familiarization with local diving techniques, wreck, and night diving techniques, search and recovery, deep diving (within specific limits) and underwater survey methods. Leads to certification as Advanced Open Water Diver. Prerequisite: Open Water Certification from a nationally recognized diver training agency and MAT 108. (Special course fee and certification fee)

**233 Introduction to Research Diving (3)**

This examines many ways that research can be conducted by a diver involved in scientific work. Techniques of surveys, geologic sampling, gridding techniques, biological sampling and underwater archaeological techniques are discussed. Students participate by developing a research project in the local diving area, and then by carrying out the research under staff supervision. An entry-level SCUBA certification is a prerequisite for the course. (Special course fee and certification fee)

**236 Underwater Archaeological Methods (3)**

A field course in which the student is involved in closely supervised on-site investigation of one or more selected underwater archaeological sites. Topics include mapping and survey techniques, underwater photography in low visibility, preservation techniques and research methods in conjunction with state requirements for preserving historical sites. Students must possess an open water certification from a nationally recognized diver training agency. (Special course fee and certification fee)

**240 Recreational Diving II Theory (3)**

A continuation of Recreational Diving Theory I. Additional theoretical information includes decompression theory, principles of group management and supervision in the diving environment. The student's practical skills are assessed as are the organizational skills required to prepare an emergency assistance plan for diving emergencies in the local area. Successful completion of the course leads to certification as a Rescue Diver and Divemaster. Prerequisite: RDM 230, RDM 222 (Special course fee and certification fee)

**241 Teaching Rescue Diver and Divemaster**

A lecture course which helps the student to develop a successful educational approach to teaching Rescue Diver and Divemaster Certification courses. The lecture course is taken concurrently with the lab portion of RDM 240 (required) so that students may observe and participate in the training of actual rescue and divemaster candidates. Special course fee. Open only to RDM Track 2 majors. Prerequisite: RDM 230 and RDM 222 with a grade of "C" or better.

**301 Artificial Reef Orientation (3)**

A course in which the student explores the use and construction of artificial reefs. Topics include local ecological studies and an underwater research project on an established artificial reef. Students must possess an advanced open water certification from a nationally recognized diver training agency. (Special course fee and certification fee)

**302 Recreational Diving Leader (3)**

Theoretical and practical information regarding diving education includes an introduction to learning theory, teaching application, speech techniques, training aids, testing and evaluation, and the legalities of diving instruction. Students are given ample opportunity to give lectures and conduct pool exercises for evaluators who help them to achieve the kind of expertise that will make them successful in their Instructor Certification course. Prerequisite: RDM 240 with a grade of "C" or better and certification as a Divemaster. (Special course fee and certification fee)

**303 Medic First Aid Instructor**

A lecture and lab course which educates the student in the techniques of teaching first aid to the general public. The course results in a Medic First Aid Instructor Certification. Special course fee and certification fee. Open only to Track 2 RDM majors or by special permission of instructor. Prerequisite: RDM 222, RDM 241.

**304 Recreational Diving Specialties (3)**

The course is designed to train individuals in four highly marketable areas of speciality diving. Principles and practices of deep diving (within specified limits), wreck diving or enclosed area penetration, underwater hunting and collecting, and night diving are thoroughly examined. Training occurs both in local waters and in the Bahamas. Prerequisite: RDM 230 or ISR 213. (Special course fee and certification fee)

**305 Teaching Recreation Diving Specialties**

A course which educates the student in the planning organizing and directing phases of conducting courses in Underwater Hunter, Wreck Diver, Deep Diver and Night Diver. Subjects include teaching techniques, marketing and promotion, and safety techniques. Leads to certification as an instructor in the four topic areas. Course is held in conjunction with the lab portion of RDM 304 (required) so that students may observe and interact with the training of actual specialty diving students. Special course fee and certification fee. Open only to RDM Track 2 majors. Prerequisite: RDM 241.



**308 Underwater Photography (3)**

Underwater photography is designed to give the student a solid background in one of the most rapidly growing and highly marketable specialty certifications in the diving industry. The course explores the physics of light underwater, the mechanics of photography, filter usage, underwater lighting, composition, and macro as well as 35mm underwater photography. Students also learn to solve problems in the field, and to produce their own audiovisual training aids for use in their Instructor Certification course. Prerequisite: ISR 155 or Open Water SCUBA Certification and ART 203. (Special course fee and certification fee)

**309 Teaching Underwater Photography**

A course which educates the student in the proper techniques of teaching underwater photography. Lecture information covers principles of underwater photography and techniques for teaching this highly marketable course. The course is held in conjunction with the lab portion of RDM 308 (required) so that students may observe and interact with actual students in training. Special course fee and certification fee. Open only to Track 2 RDM majors.

**314 Scuba Equipment Repair and Maintenance (3)**

The student receives instruction in theory and design of today's complex diving equipment including regulators, buoyancy compensators, depth indicators and pressure gauges. Major manufacturers' representatives participate in clinics that detail maintenance of specific types of equipment, and the student receives a license to repair that equipment upon successful completion of the course. Students also learn to trouble-shoot malfunctions in the field and to adapt equipment to meet the needs of the individual diving environment. Prerequisite: RDM 302 (Special course fee and certification fee.)

**325 Seamanship (2)**

An introduction to the theories of ocean navigation, the basic rules of the road, basic boat repairs, ocean environments, U.S.C.G. licensing requirements, marine internal combustion engines and marlinspike seamanship. Course content is designed to assist in completion of Coast Guard written requirements for the captain's license and to give students basic skill in boat handling. Prerequisite: RDM 222 (Special course fee)

**400 Dive Store Retailing (2)**

The course is designed to familiarize the student with the theory and practice of owning and operating a retail business within the diving industry. Topics include marketing, sales techniques, sales staff management, the selling environment, telephone sales and financial responsibilities as practiced in the diving industry. Students also learn to sell diving instruction as part of their overall approach to establishing a successful retail business. Prerequisite: MGT 305, MKT 306.

**404 Scuba Instructor (3)**

The Instructor Certification course is only open to students who have completed the sequence of diving courses in the major. A large portion of the course is devoted to exploring advanced topics in learning theory, teaching application, speaking techniques, audiovisual usage, training aid development, student testing and evaluation, and legal issues concerning diver education. Students are evaluated in practical skills and teaching ability in a simulated diving class environment, and are given example lectures by staff as well as demonstrations of proven educational methods in diver training. Students participate in a variety of resume writing and job search workshops to improve their job search skills. Students who successfully complete this course will be eligible for an internationally recognized testing process that leads to certification as a SCUBA Instructor. Prerequisite: Required sequence of courses (Special course fee and certification fee)

**405 Instructional Staffing**

A course designed to allow the student the opportunity to participate in and observe the training of new diving instructors. Students attend special lecture sessions prior to participation in the classroom, confined water and open water portions of RDM 404. Students must attend both the lecture portion and the entire RDM 404 course. Students must have completed all the RDM major courses prior to enrollment. Subjects include an orientation of instructional philosophies and systems, how to conduct an instructor course and how to market those courses within established business channels. Special course fee and certification fee. Open only to Track 2 RDM majors. Prerequisite: RDM 400 and required sequence of courses.

**492 Workshop (1-3) (1-3)****459 Independent Study**

## **SOCIAL SCIENCE**

A minor in Social Science (21 credits) includes six of Political Science (including POS 201); 6 of Geography (including GEO 307); 3 of Economics; and 3 of Sociology. The remaining credits may be chosen from any of the Social Sciences. For a History major, the Social Science minor fulfills State of Florida requirements for certification in Social Studies. For non-history majors, at least three semester hours of history should be included.

## **SOCIOLOGY**

Sociology is the scientific study of human social behavior. It studies the processes and patterns of individual and group interaction, the forms of organization of social groups, the relationships among them, and group influences on individual behavior.

Requirements for a major in sociology are 30 credit hours in the discipline, including SOC 201, 246, 370, 409, 423, and 459.

Requirements for a minor in Sociology are 21 credits including SOC 201, 246, 370, and 423.

Graduation requirements include: (1) earning a minimum grade of C in all major courses, (2) satisfactory completion of a senior research project to be submitted during the student's final semester (research will be conducted while registered for SOC 459); and (3) satisfactory completion of a social awareness assessment to be administered during the student's final semester.

### **Course Descriptions — Sociology Prefix: SOC**

#### **103 The Criminal Justice System (3)**

A survey of the philosophical and historical trends that make up the criminal justice system. Also included is an evaluation of the criminal justice system including: current trends, career orientation, agencies and processes. Same as CRJ 103.

#### **201 Introduction to Sociology (3)**

An introduction to the major theoretical perspectives in sociology. Emphasis on the application of these perspectives to contemporary social issues, including: deviance, marriage and the family, organizations, religion and social change.

#### **211 Corrections in America (3)**

Presents an historical review of correctional and penal institutions as well as the current state of achievement. Also stresses needs and directions for future efforts that which need to be done, in contrast to that which has and is being accomplished. Same as CRJ 211. Prerequisite: CRJ/SOC 103.

#### **221 Law Enforcement (3)**

Law enforcement and police operations affect the democratic process more crucially than any other aspect of public policy. This course looks at the discretionary conduct of policemen, the development of police power and the degree which the police officers perform their tasks in accordance with community values and needs. Same as CRJ 221. Prerequisite: CRJ/SOC 103.

#### **246 Marriage and the Family (3)**

A survey of historical and sociological perspectives regarding the family as an important social institution. Emphasis on contemporary family issues, including: intimacy and sexuality, family violence, parenting, divorce and remarriage.

#### **263 Sociology of Deviant Behavior (3)**

A survey of sociological perspectives on the nature of deviance. The theoretical perspectives introduced will be applied to specific issues, including: drug abuse, mental illness and sexual deviance.



**300 Special Topics (3)**

Content to be determined by the Department to fill specified needs or interests.

**302 Juvenile Delinquency (3)**

A theoretical and empirical study of the extent of delinquency. The student will also evaluate the problems involved in measuring delinquency and the role of the police, courts, and a critical examination of treatment and prevention programs. Same as CRJ 302. Prerequisite: CRJ/SOC 103.

**324 Urban Sociology (3)**

A survey of sociological perspectives on the city and its problems. Sociological perspectives will be applied to such problems as: crime, healthcare, poverty, and racism.

**330 Sociology of Sport (3)**

To examine through a sociological perspective, the positive and negative consequences of the way sport is organized in society. Prereq: SOC 201 (Also SMA 330)

**342 Sociology of Health Care (3)**

This course is essentially an investigation of the economic and sociological rationalities that presently inform health care policy and illness behavior in the United States.

**349 Sociology of Religion (3)**

Analytical approach to the problem of reciprocal incidence and dependence between "religious" phenomena and the socio-cultural world; deals principally with classical sociologists, Marx, Freud, Durkheim, Malinowski, Weber and their views on the function of religion and the process of secularization. Same as THE 465.

**359 Independent Study (3)**

Designed to allow extensive research in sociology in areas of special interest to the student. Dean and Departmental approval required.

**370 Social Psychology (3)**

Analysis of psychological and sociological approaches to social psychology. Topics discussed include aggression, attitudes, conformity, deviance, and gender roles. Same as PSY 370.

**372 Social Stratification (3)**

Theories of social class; wealth, power and prestige as class correlates; social mobility, and consequences of social placement.

**407 Race and Ethnicity (3)**

Study of sociological perspectives in minority-majority relations; assimilation ideologies; dynamics of prejudice and discrimination; biological, historical and sociological data on race; survey of American minorities.

**409 Research Methodology (3)**

Introduction to sociological research methods. Contemporary data collection and analysis techniques will be introduced. The assumptions, limitations, and implications of these techniques will be discussed. Same as POS 409.

**423 Sociological Theory (3)**

A critical review of the classical theorists who developed the foundations of modern sociological theory. Specific theorists and theories to be considered Durkheim, Spencer, Marx, Weber, structure-functionalism, conflict theory and symbolic interactionism.

**459 Independent Study (3)**

Designed to allow the student an opportunity to complete the senior project under the supervision of a faculty member. Dean and Departmental approval required.

**487 Seminar (3)**

Intensive exploration of a particular topic relevant to sociology.

**499 Internship (3-6)**

Internship experience under qualified supervision. Requires a minimum of 120 hours.

**SPANISH**

The Spanish program provides students with proficiency in the four basic skills — listening, speaking, reading and writing — and gives them a deeper understanding of the Hispanic culture. It aims to prepare Spanish majors not only to teach, but also to broaden their career opportunities by gaining

proficiency in Spanish. Translating and interpreting, diplomatic service, international business and industry, social welfare, law, nursing, allied health communications and services, among others, are areas enhanced by the command of Spanish.

In the Spanish three-track program, students are placed according to their level of proficiency and may choose among the following courses:

Track I, for non-natives learning the language, includes SPA 101, 102, 150, 151, 153, 203, 204, 251, 304, 307, 315, 316, and 317. SPA 101, 102, 203, and 204 may be taken under the accelerated option, which enables students to earn 6 credits in one semester instead of the usual 3 credits.

Track II, for students from a Hispanic background with no formal training in the language, includes SPA 315, 316, 317, and, when sufficiently advanced, any Special Topic (300), or any other literature course.

Track III, for native speakers or non-natives with command of the language, includes SPA Special Topic (300), 315, 316, 317, 355, 356, 359/459, 360, 361, 366, 431, 440, 443, 447, 476, 487.

The Spanish major consists of a minimum of 30 credits. The minimum grade of C is required in all major courses.

At the end of the program, Spanish majors must complete satisfactorily a comprehensive examination.

Under the direction of their advisors, Spanish majors will choose courses distributed among the following areas:

**Survey Courses** (minimum of 12 credits):

- SPA 355 Survey of Spanish Literature I
- SPA 356 Survey of Spanish Literature II
- SPA 360 Survey of Hispanic-American Literature I
- SPA 361 Survey of Hispanic-American Literature II

**Period Courses** (minimum of 6 credits):

- SPA 440 Spanish Literature of the Golden Age
- SPA 443 Twentieth-Century Spanish Literature
- SPA 447 Contemporary Hispanic-American Fiction or appropriate
- SPA 300 Special Topics (appropriate courses)
- SPA 487 Seminar

**Authors/Genres Courses** (minimum of 6 credits)

- SPA 366 The Hispanic-American Novel
- SPA 300 Special Topics (appropriate courses)
- SPA 487 Seminar

**Language/Writing/Teaching Courses** (minimum of 6 credits)

- SPA 315 Reading and Writing I
- SPA 316 Reading and Writing II

Students who are planning to teach should add SPA 476, Teaching Foreign Languages: K-12.

Placement in Spanish classes is determined by testing of new students at the time of first enrollment.



Up to six credits in Spanish will be granted for CLEP upon completion of at least six credits in Spanish beyond the elementary level taken at Barry University.

### Spanish Minor

The Spanish Minor is available under two options: a general minor consisting of 21 credit hours in Spanish and the Certificate Program in Translation and Interpretation (24-27 credits).

### CERTIFICATE PROGRAM IN TRANSLATION AND INTERPRETATION

#### Required courses:

SPA 315	Reading and Writing I	3
SPA 316	Reading and Writing II	3
SPA 320	Structural Analysis of English and Spanish	
SPA 325	Introduction to Translation	3
SPA 326	Introduction to Interpretation	3
SPA 425	Advanced Techniques of Translation	3
SPA 426	Advanced Techniques of Interpretation	3

#### Recommended:

SPA 499	Internship	3, 3
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Total: 24-27 credits

### Course Descriptions — Spanish Prefix: SPA

#### 101, 102 Elementary Spanish I, II (3) (3)

Introduction to Spanish; conversation, with emphasis on a practical vocabulary and accurate pronunciation; reading and writing with progressive grammatical explanations.

#### 150 Spanish for Business I (3)

An introductory course in conversational Spanish with an emphasis on business terminology, accurate pronunciation, and practical applications. Language laboratory hours are required. For students with little or no preparation in Spanish.

#### 153 Spanish for Business II (3)

Conversational Spanish with emphasis on business terminology and practical applications. Not open to native speakers or to students with two or more years of Spanish.

#### 203, 204 Intermediate Spanish I, II (3) (3)

Intensive review of Spanish pronunciation and grammatical patterns; recognition and active handling of aural comprehension and oral production, as well as reading and writing. Language laboratory hours required. Prerequisite: SPA 102 or equivalent.

#### 300 Special Topics (3-12)

Content to be determined each semester by the Department as requested by faculty and/or students to fill specified needs or interests.

#### 304 Advanced Spanish (3)

Focus on the intensive study of the written and spoken language. Practice of advanced skills will be provided to facilitate spontaneity of expression.

#### 307 Advanced Conversation (3)

Development of speaking skills. Prepared and extemporaneous dialogues, reports, skits on real-life situations, and other projects. For non-native speakers. Prerequisite: SPA 251 or equivalent.

**315, 316 Reading and Writing I, II (3) (3)**

Readings in Spanish as well as study of grammar, accents, and spelling. Techniques of composition. For native and non-native speakers with command of the language.

**317 Commercial Spanish (3)**

Introduction to the use of the Spanish language as a tool for international trade. Emphasis placed on commercial terminology, documentation and correspondence. Areas such as advertising, foreign trade, transportation, banking and finance will also be investigated in this course.

**320 Structural Analysis of English and Spanish (3)**

Course for students of translation and interpretation and for those who plan a career in language teaching. The course will use contrastive analysis, wherein any two languages are compared in order to ascertain which structures of one language are the most similar to or the most diverging from those of the other.

**325 Introduction to Translation (3)**

Emphasis on basic principles of translation and interpretation. Techniques and resources for professional translations. Prerequisite: SPA 315 or 316 or equivalent.

**326 Introduction to Interpretation (3)**

Emphasis on basic principles of interpretation. Techniques and resources for professional translations. Prerequisite: SPA 315 or 316 or equivalent.

**355, 356 Survey of Spanish Literature I, II (3) (3)**

Principal movements in Spanish literature; typical works of each period.

**359/459 Independent Study (3)**

Opportunity for extensive research in areas of special interest to the student. Prerequisite: Approval of Department Chair and Dean.

**360, 361 Survey of Hispanic-American Literature I, II (3) (3)**

Principal movements of Hispanic-American literature; typical works of each period.

**366 The Hispanic-American Novel (3-6)**

Selected readings, discussion, and analysis of major Hispanic-American novels.

**425 Advanced Techniques of Translation (3)**

Advanced methods and tools for professional translating. Prerequisite: SPA 325 or equivalent.

**426 Advanced Techniques of Interpretation (3)**

Advanced methods and tools for professional interpreting. Prerequisite: SPA 326 or equivalent.

**440 Spanish Literature of the Golden Age (3-6)**

Selected readings, discussions, and analysis of the works of the principal writers of the sixteenth and seventeenth centuries.

**443 Twentieth Century Spanish Literature (3-6)**

Selections from the poetry, prose and drama of the twentieth century.

**447 Contemporary Hispanic-American Fiction (3-6)**

Discussion and analysis of selected works of the Hispanic-American boom.

**476 Teaching of Foreign Languages: K-12 (3)**

Traditional and modern methods of teaching comprehension and language skills; organization of units of work and lesson plans; analysis of modern texts, tests, and materials; use of language laboratory. Prerequisite: Candidacy in the School of Education.

**487 Seminar (3-12)**

Selected literary topics including thematic, genre, and historical approaches.

**499 Internship (3) (3)**

Opportunity for students in the Certificate Program in Translation and Interpretation to acquire experience by working with professionals in the field. Prerequisite: SPA 425 or 426. Approval of Department Chair.

## **SPEECH**

### **Course Descriptions — Speech Prefix: SPE**

**100 American English Phonetics: Vowels (3)**

Introduction to linguistic theory and study of American English phonetics, with a focus on remediation of foreign accent. Emphasis on articulation of vowel sounds. Intensive individualized instruction. Assignments and examinations. Does not satisfy SPE or ENG distribution requirements. (Also ENG 100)



**101 Fundamentals of Speech (3)**

Study and practice of the basic skills in interpersonal and public communication.

**105 American English Phonetics (3)**

Reduction of foreign and regional accents. Focus on the International Phonetic Alphabet (IPA), with emphasis on linguistic variables that influence accent reduction: articulation, stress, intonation, word order, phrasing, and vocabulary. Individualized instruction incorporating speaking, reading and writing. Does not fulfill distribution or degree requirements. (Also ENG 105)

**312 General Speech (3)**

Experience in varied communication skills, public speaking, group discussion, voice production and classroom teaching.

**401 Business and Professional Communication (3)**

Application of principles of speech communication in the presentation of informational reports, conference management, and interviewing.

**411 Speech Correction for Children (3)**

Non-technical course in speech correction for the teacher who deals with speech-handicapped children in the classroom. See EDU 411.

**424 Advanced Public Speaking (3)**

Application of public speaking skills in individual and group presentations. Emphasis on preparation, construction, presentational media, and delivery of the presentation in a variety of public situations. Prerequisite: SPE 101.

**476 Teaching Speech and Theatre in the Secondary School (2)**

Methods and materials available for teaching speech and for directing extra-curricular speech and drama activities; required for teacher certification. Prerequisite: Candidacy in the School of Education.

**SPORT MANAGEMENT**

The Bachelor of Science Degree in Sport Management consists of 120 semester hours and requires thirty semester hours (30 s.h.) from the Department of Sport and Recreational Sciences and requires a minor (21 s.h.) in Business with co-requisite courses in Communications and Computer Science. The minimum grade of C is required in all major courses. Upper biennium courses are offered on a two-year cycle. SMA 499 (Internship) meets the integrative experience requirement.

**Distribution**

	Credits
ENG 111 Freshman Composition & Literature	3
ENG 112 Techniques of Research	3
SPE 101 Fundamentals of Speech	3
Philosophy/Theology	9
Humanities/Art	9
MAT 108 Precal Math for Business	3
MAT 152 Elementary Probability & Statistics	3
BIO 220 Intro to Human Anatomy	4
PSY 281 Intro to Psychology	3
SOC 201 Intro to Sociology	3
Social/Behavioral Sciences	3
	46

**Prerequisites**

	Credits
COM 200 Intro to Mass Media	3
CIS 180 Intro to Computers	3
	6

<b>Minor in Business</b>		Credits
BUS 181	Concepts of Business Behavior	3
ACC 201	Financial Accounting	3
ECO 201	Principles of Economics I	3
MGT 305	Management Concepts & Applications	3
MKT 306	Marketing Concepts & Applications	3
Choice of two electives: BUS 339, 371, MGT 409 or MKT 384		6
		<hr/> 21
<b>Major</b>		Credits
PSY 370	Social Psychology or	
PSY 423	Industrial Psychology	3
SMD 360	Physiology of Exercise	3
SMA 250	Sport and Recreational Management	3
SMA 327	Psychology of Sport	3
SMA 330	Sociology of Sport	3
SMA 380	Facility and Event Management	3
SMA 385	Legal Aspects of Sports	3
SMA 440	Sport Marketing, Promotion & Fund Raising	3
SMA 487	Senior Sport Management Seminar	3
SMA 499	Internship	3-6
		<hr/> 30
<b>Electives</b>		14-17 credits
<b>TOTAL</b>		<b>120 credits</b>

### Course Descriptions — Sport Management Prefix: SMA

#### 250 Sport and Recreational Management (3)

Organization and administration of groups and individuals in sports and recreation; application of theories of management and administration to sports and recreation.

#### 327 Psychology of Sport (3)

Investigation of typical areas in theoretical and applied sport psychology which are relevant to athletic performance and general physical activity involvement. Prerequisite: PSY 281 (Also PSY 327)

#### 330 Sociology of Sport (3)

To examine through a sociological perspective, the positive and negative consequences of the way sport is organized in society. Prerequisite: SOC 201 (Also SOC 330)

#### 359/459 Independent Study (3)

Opportunity for directed research in areas of interest to student. Dean and Departmental Chair approval required.

#### 380 Facility and Event Management (3)

To include knowledge of the various types of indoor and outdoor facilities, fiscal management, technological advances in equipment, planning of facilities.

#### 385 Legal Aspects of Sport (3)

Legislation affecting both amateur and professional sports; legal ramifications of various aspects of sports administration.

#### 440 Sport Marketing, Promotions, and Fundraising (3)

An investigation of the principles, applications, and techniques of marketing, promotions, and fundraising within the various sporting industries.



**487 Seminar (3)**

Coursework to include integration of SMA courses and application of major knowledges to successful management of sports and recreation.

**499 Internship (3)**

Senior level supervised experience in amateur or professional sports management. Requires a minimum of 120 hours.

**SPORTS INFORMATION**

The Bachelor of Science Degree in Sports Information consists of 120 semester hours and requires fifty-one semester hours (51 s.h.) of interdisciplinary study from Communications, Public Relations, Journalism, and Sport Sciences. Students are urged to minor in Journalism, Public Relations, Fine Arts (Photography/Graphics), or English. Only nine semester hours (9 s.h.) of the Sports Information major may be applied toward another major or minor. The minimum grade of C is required in all courses. Upper biennium level courses are offered on a two-year cycle. SPO 499 meets the integrative experience requirement.

<b>Distribution</b>	Credits
ENG 111 Freshman Composition & Literature	3
ENG 112 Techniques of Research	3
SPE 101 Fundamentals of Speech	3
Philosophy/Theology	9
Humanities/Art	9
MAT 108 Precal Math for Business	3
MAT 152 Elementary Probability & Statistics	3
BIO 220 Intro to Human Anatomy	4
PSY 281 Intro to Psychology	3
SOC 201 Intro to Sociology	3
Social/Behavioral Sciences	3
	46

<b>Major</b>	Credits
COM 200 Intro to Mass Media	3
COM 390 Principles of Public Relations	3
COM 391 Case Studies in Public Relations	3
JOU 208 Techniques of Reporting	3
JOU 309 Sports Writing	3
SMA 250 Sport and Recreational Management	3
SMA 327 Psychology of Sport	3
SMA 330 Sociology of Sport	3
SMA 380 Facility and Event Management	3
SMA 385 Legal Aspects of Sport	3
SMA 440 Sport Marketing, Promotion, & Fund Raising	3
SMA 487 Senior Sport Management Seminar	3
SPO 351 Media Relations for Sport	3
SPO 499 Internship	3
	42

3 additional courses from one of three areas shown below:

**Broadcasting:**

COM 204 Writing for the Media  
COM 214 Television Production  
COM 491 Television Direction

**Photography/Graphics:**

ART 203 Basic Photography  
ART 205 Introduction to Graphic Design  
ART 303 Intermediate Photography

**Journalism:**

JOU 242 News Writing  
JOU 315 Photojournalism

JOU 470 Seminar in Journalism

51 credits

**Electives**

23 credits

Total

120 credits

**Course Description — Sports Information Prefix: SPO**

**351 Media Relations in Sport (3)**

A detailed study of professional and collegiate sports and their relationship with the various media outlets. (Also COM 351)

**359/459 Independent Study (3)**

Opportunity for directed research in areas of interest to student. Dean and Departmental Chair approval required.

**499 Internship (3)**

Senior level supervised experience in amateur or professional sports information. Requires a minimum of 120 hours. Dean and Departmental Chair approval required.

**SPORTS MEDICINE**

The Bachelor of Science Degree in Sports Medicine is comprised of two distinct academic tracks. These tracks encompass a comprehensive view of the field of Sports Medicine and each has its unique program characteristics and future career opportunities. The two tracks are Athletic Training and Exercise Science. Additionally, there is a Sports Medicine/Exercise Science Minor that is appropriate for Pre-professional and/or Science Majors interested in pursuing a career in Sports Medicine.

**Sports Medicine — Athletic Training Track**

The Bachelor of Science Degree in Sports Medicine — Athletic Training consists of 120 semester hours and requires 50 semester hours (50 s.h.) of study from the Department of Sport and Recreational Sciences. This course of study prepares the student for certification as an Athletic Trainer (A.T., C.) by the National Athletic Trainers Association (N.A.T.A.). The minimum grade of "C" is required in all major courses. All upper biennium courses are offered on a two-year cycle. SMD 499 (Internship) meets the integrative experience requirement.



<b>Prerequisites (may be used to fulfill distribution requirement)</b>		<b>Credits</b>
MAT 152	Elementary Probability and Statistics	3
CHE 152	Introduction to Organic and Biological Chemistry	4
BIO 230	Human Anatomy	4
BIO 240	Introduction to Human Physiology	5
Total Distribution requirement and prerequisites		52

<b>Major</b>		<b>Credits</b>
ISR 212	CPR and First Aid	2
SMD 220	Athletic Training I	3
SMD 225	Athletic Training II	3
SMD 300	Athletic Training Administration	3
SMD 310	Personal Health and Disease Prevention	3
SMD 316	Therapeutic Modalities	3
SMD 318	Therapeutic Exercise	3
SMD 320	Kinesiology	3
SMA 327	Psychology of Sport	3
SMD 330	Nutrition for Physical Performance	3
SMD 340	Adpated Physical Education	3
SMD 350	Test and Measurement in Sports Medicine	3
SMD 360	Exercise Physiology	3
SMA 385	Legal Aspects of Sport	3
SMD 469	Directed Readings in Sports Medicine or	
SMD 479	Directed Research in Sports Medicine	3
SMA 487	Seminar in Sport	3
SMD 499	Internship	3-6
		50

#### **Recommended Electives**

SMD 420	Biomechanics	4
SMD 440	Cardiac Rehabilitation	4
SMD 460	Advanced Exercise Physiology	4

12

All course requirements for certification by N.A.T.A. are included in this track. To satisfy N.A.T.A. requirements, the student must complete 1500 hours of supervised practicum prior to sitting for the N.A.T.A. certification examination.

#### **Sports Medicine — Exercise Science Track**

The Bachelor of Science Degree in Sports Medicine — Exercise Science consists of 120 semester hours and requires a 37 semester hour (37 s.h.) course of study from the Department of Sport and Recreational Sciences and a 21 semester hour (21 s.h.) minor in Biological Sciences. A major in Sports Medicine — Exercise Science prepares the student for certification by the American College of Sports Medicine (A.C.S.M.) in a variety of professional areas. The minimum grade of "C" is required in all major courses. Upper biennium courses are offered on a two-year cycle. SMD 499 Internship meets the integrative experience requirement.

**Distribution Requirements.....36**

Requirements within Math and Natural Science:	Credits
PHY 151 Introductory Physics	4
MAT 152 Elementary Probability and Statistics	3
CHE 152 Introduction to Organic and Biological Chemistry	4
TOTAL	47

<b>Biology Minor</b>	Credits
BIO 112 Botany	4
BIO 116 Zoology	4
BIO 230 Human Anatomy	4
BIO 240 Introduction to Human Physiology	5
BIO 450 Histology	4
	21

<b>Major</b>	Credits
SMD 320 Kinesiology	3
SMA 327 Psychology of Sport	3
SMD 330 Nutrition for Physical Performance	3
SMD 350 Test and Measurement in Sports Medicine	3
SMD 360 Exercise Physiology	3
SMA 385 Legal Aspects of Sport	3
SMD 420 Biomechanics	4
SMD 440 Cardiac Rehabilitation	4
SMD 460 Advanced Exercise Physiology	4
SMD 469 Directed Readings in Sports Medicine or	
SMD 479 Directed Research in Sports Medicine	3
SMD 486 Colloquium in Sports Medicine	1
SMD 499 Internship	3-6
	37

**Sports Medicine — Exercise Science Minor**

Those students minoring in Sports Medicine Exercise Science must meet the following requirements:

	Credits
SMD 320 Kinesiology	3
SMD 350 Test and Measurement in Sports Medicine	3
SMD 360 Exercise Physiology	3
SMD 420 Biomechanics	4
SMD 440 Cardiac Rehabilitation	4
SMD 460 Advanced Exercise Physiology	4
	21

**Course Descriptions — Sports Medicine Prefix: SMD**

**220 Athletic Training I (3/4)**

Application of accepted first aid techniques to personal injury in sports; basic techniques of taping for exercise activities and remedial activity.



- 225 Athletic Training II (3)**  
Advanced techniques of taping, exercise and remedial activity. Prerequisites: SMD 220, BIO 230.
- 300 Athletic Training Administration (3)**  
Administrative organization and procedures for the development and implementation of athletic training, physical therapy, and associated laboratory and clinical facilities.
- 310 Personal Health and Disease Prevention (3)**  
Epidemiology of disease determinants, including identification and intervention in disease processes. Major emphasis on nutrition, wellness, exercise, and health.
- 316 Therapeutic Modalities (3)**  
A study of sports therapy physical agents used in athletic training techniques such as cryotherapy, hydrotherapy, electrotherapy, and mechanical therapy. Prerequisites: SMD 220, SMD 225.
- 318 Therapeutic Exercise (3)**  
A study of clinical sports therapy techniques used in the rehabilitation of athletic injuries. Prerequisites: SMD 220, SMD 225.
- 320 Kinesiology (3)**  
The study of human movement in reference to sport, dance, physical education, and adapted movement activities. Prerequisite: BIO 230.
- 330 Nutrition for Physical Performance (3)**  
The study of nutrition, diet analysis, biochemical processes in energy metabolism, nutrition and health problems, and nutrition as it relates to physical performance. Prerequisites: CHE 152.
- 340 Adapted Physical Education (3)**  
The study of programs, facilities, and equipment for the disabled person in relation to sports and recreation.
- 350 Tests and Measurements in Sports Sciences (3)**  
Elementary application of tests, measurements, research design, and statistical methods as they relate to the exercise sciences. Prerequisite: MAT 152.
- 360 Exercise Physiology (3)**  
Physiological responses and adaptations of the various systems of the body to exercise stress. Prerequisites: BIO 230, BIO 240.
- 420 Biomechanics (4)**  
Advanced physical science and laboratory techniques in studying human movement. The major emphasis of the course is on the kinetics and kinematics of movement. Prerequisite: SMD 320.
- 440 Cardiac Rehabilitation (4)**  
Pathophysiology of cardiopulmonary disease and the physiological and technical basis of graded exercise tolerance testing, exercise prescription, and exercise leadership for individuals with cardiopulmonary disease. Prerequisite: SMD 360.
- 460 Advanced Exercise Physiology (4)**  
Exercise biochemistry, ergometrics, bioenergetics, muscle physiology, anthropometry, and selected current topics in the literature. An in-depth laboratory experience is included. Laboratory fee required. Prerequisite: SMD 360.
- 469 Directed Readings in Sports Medicine (3)**  
Directed library research and readings in sports medicine to prepare for A.C.S.M. or N.A.T.A. certification examinations. Prerequisite: Permission of Chair only.
- 479 Directed Research in Sports Medicine (3)**  
Advanced practical experience in sports medicine field research under the direct supervision of faculty. Prerequisite: Permission of Chair only.
- 486 Colloquium in Sports Medicine (1)**  
A professional seminar in sports medicine designed to review the most current research in the field and present research findings from directed research projects. Prerequisite: Permission of Chair only.
- 499 Internship in Sports Medicine (Athletic Training/Exercise Science) (3-6)**  
Participate and report on a comprehensive integrative experience in sports medicine through a research laboratory, clinical situation, or other approved experience at a local sports medicine facility. Prerequisite: Permission of Chair only.

## TELECOMMUNICATION

The B.S. in Telecommunication emphasizes the role and function of the newer technologies (particularly related to voice and data transmission) as emerging communication methods. The rapid expansion of the telecommunication industry since the divestiture of A.T.&T. in 1984 has created professional opportunities in abundance. The degree program emphasizes both effective communication techniques and a knowledge of the technologies employed in the profession, together with a minor in Computer Science.

### Distribution Requirements 45 hours

#### Major

TEL 310	Telecommunication Concepts	3 hours
TEL 340	Introduction to Telephony	3 hours
TEL 420	Telecommunication Systems	3 hours
TEL 440	International Telecommunication	3 hours
TEL 490	Telecommunication Final Project	3 hours
COM 200	Introduction to Mass Media	3 hours
COM 441	Internship	3 hours
COM 470	Seminar in Communications	3 hours
COM 495	Communication Law	3 hours
COM 497	Media Management	<u>3 hours</u>

30 hours

#### Corequisites

*MAT 108	Precal Math for Business	3 hours
*MAT 152	Elementary Probability & Statistics	3 hours
BUS 181	Concepts of Business Behavior	3 hours
*ECO 202	Principles of Economics	<u>3 hours</u>

12 hours

\* Can be used to partially fulfill distribution requirements.

#### Required Minor in Computer Science

CIS 180	Intro to Computer Science	3 hours
CIS 204	Basic Programming	3 hours
CIS 405	Managing the Automated Office	3 hours
CIS 418	Managing Computer Resources	3 hours
CIS 425	Computer Communication	3 hours
CIS 433	Data Base Management	3 hours
CS 440	Data Communications	<u>3 hours</u>

21 hours

#### General Electives

12 hours

### Degree Total

**120 hours**



### Telecommunication Minor

TEL 310	Telecommunication Concepts	3 hours
TEL 340	Introduction to Telephony	3 hours
TEL 420	Telecommunication Systems	3 hours
TEL 440	International Telecommunication	3 hours
TEL 490	Telecommunication Final Project	3 hours
COM 200	Introduction to Mass Media	3 hours
COM 495	Communication Law	3 hours

### Course Descriptions — Telecommunication Prefix: TEL

#### 310 Telecommunication Concepts (3)

An historical study of the technological, commercial, and political facets of communication from the development of electrical communication to modern times. Basic principles include telephony, radio and television, and present-day communication systems of the present. Legal and regulatory issues are introduced.

#### 340 Introduction to Telephony (3)

Principles of design and operation of basic voice networks. Essential elements of speech, video, data and images are examined as electrical signals. The theories of modulation and multiplexing are studied.

#### 420 Telecommunication Systems (3)

Design of a telecommunication system which supports voice, video, data and images. Study of the switched telephone network. Transmission systems layout and major design elements are considered, along with satellite and cable systems.

#### 440 International Telecommunication (3)

Examination of relationships between the U.S. government entities and international organizations in developing international policies and standards. The international issues of transborder data flow, satellite space slots, frequency usage, and other issues are discussed.

#### 490 Telecommunication Project (3)

Final project which is both comprehensive and analytical in a specific area of telecommunications. Prerequisite: Senior standing and permission of advisor and instructor.

### THEATRE

Students electing to major in Theatre will find a program both diverse and practical in nature. There are four tracks: Acting, Technical, Liberal Arts and Theatre Management. The Department provides three main stage productions a year with additional student projects in the Black Box Theatre. Additional activities and opportunities available to the theatre major are participation in the New Puppet Theatre Co. and Orchesis Dance Co. which tour in the Miami area. In addition, Acting, Technical and Theatre Management internships are available in the Junior and Senior year through auditions and with Departmental approval.

The Theatre major prepares students for teaching, performance, and entry into graduate school. For non-majors, the Theatre program includes experience and courses in fundamental methods and content.

A major requires 42 credits, including TH 105 or 206, 155, 156, 185, 186, 290, 291, 307, 323, 391, 392, 407, 439, 440, 441.

A minor requires a minimum of 21 credits, including TH 155 or 156, 185 or 186, 290 or 291, 307, 323, 391, 392 or 393, 439 and 440 or 441.

Students seeking certification in education must add Education 151, 218, 441 or 462, 442 or 463, 466, 467 or 468, and 499; and Speech 411 and 476.

In order to fulfill departmental requirements for graduation, students must participate in Theatre productions and must complete a Departmental Comprehensive Examination during their final semester. A minimum grade of C is required in all major courses.

### **THEATRE MANAGEMENT**

The B.A. in Theatre Management provides course work and experience directed towards managing a theatre facility. The program includes a business minor and credits in mathematics and communications. The integrative experience is an internship (TH 499). The minimum grade of C is required in all major and minor courses. The program of study is as follows:

Major (36 credits)

TH 155, TH 185, TH 186, TH 391, TH 392, TH 393, TH 399, TH 439, TH 440, TH 499, Theatre Electives (11 credits).

#### **Corequisites (15 credits)**

CIS 180	Introduction to Computers
MAT 108	Precal Math for Business
MAT 152	Elementary Probability and Statistics
COM 200	Introduction to Mass Media
COM 362	Principles of Public Relations

#### **Minor in Business (21 credits)**

BUS 181	Concepts of Business Behavior
ACC 201	Financial Accounting
ECO 202	Principles of Economics
MGT 305	Management Concepts and Applications
MKT 306	Marketing Concepts and Applications
FIN 319	Financial Management
MGT 409	Organizational Communication or MKT 382

### **Course Descriptions — Theatre Prefix: TH**

#### **105 Theatrical Movement (1)**

Introduction to basic dance forms for beginners; includes exposure to beginning ballet, jazz, and modern and tap, emphasis differs each semester; no prerequisites.

#### **106 Theatrical Movement (1)**

Beginning, intermediate dance techniques, with specific focus on ballet, jazz, and modern and tap dance forms; emphasis varies each semester; Theatrical Movement 105 or permission of instructor; may be repeated for additional credit.

#### **155, 156 Fundamentals of Acting (3) (3)**

Creative approach to acting with emphasis on the development of the imagination, flexibility of body movement, and greater ease of communication. Mime; improvisation and basic scene study, stage combat and play analysis; additional lab time required.

#### **185, 186 Theatre Production (3) (3)**

Introduction to theatre production with emphasis on basic construction of sets and properties.



**205 Theatrical Movement (1)**

Intermediate dance techniques and composition with specific focus on modern; jazz, and dramatic dance forms for the stage. Prerequisite: permission of the instructor; may be repeated for additional credit.

**206 Theatrical Movement (1)**

Advanced dance techniques, improvisation and composition for the stage; focuses on modern, ballet, jazz, and dramatic dance performance techniques. Prerequisite: permission of the instructor; may be repeated for additional credit.

**213 Oral Interpretation (3)**

Basic introduction to the theory and technique necessary for the presentation of prose, poetry, and dramatic literature for an audience.

**255 Intermediate Acting (3)**

Role/Play analysis focusing on techniques for in-depth analysis of plays/characters using scenes from contemporary American Theatre. Prerequisite: Th 155, 156 and permission of instructor.

**256 Intermediate Acting (3)**

Advanced scene study in laboratory conditions. Prerequisite: Th 155, 156, 255 and permission of instructor.

**285, 286 Theatre Production (2) (2)**

Techniques of stage management with practical application in productions. Prerequisite: TH 185, 186.

**288 History and Philosophy of Dance (2)**

Progression and influence of dance upon civilization, the arts, and social communication; from ancient to modern.

**290 History and Design of Stage Costumes (2)**

Introduction to the development and history of costume through the ages and basic techniques of costume design and pattern drafting. Additional lab time required; no prerequisites.

**291 Stage Make-up (2)**

Basic preparation for make-up design and philosophy, character analysis and actual application of make-up for the stage. Additional lab time required; no prerequisites.

**300 Special Topics (3)**

Content to be determined to fill specific needs or interests.

**307 Performing Lab (3)**

Provides the student through Puppet Theatre, or Orchesis Dance Company with the opportunity to perform and travel in a student touring company. Prerequisite: permission of the instructor; may be repeated for additional credit.

**323 Play Directing (3)**

Investigation of the basic theories and traditional techniques of play direction. Prerequisites: TH 155, 156, 255 or permission of the instructor; additional lab time required.

**324 Advanced Play Directing (3)**

Continued study of directing techniques with specific focus on the student directed production. Prerequisite: permission of instructor; additional lab time required.

**355 Acting Styles (3)**

Advanced study of acting focusing on performance, reflecting historical periods or social cultures. Prerequisites: TH 155, 156, 255 or permission of instructor; additional lab time required.

**356 Advanced Acting (3)**

Intensive focus on the physical, vocal and emotional preparation necessary for the performance of scenes from Shakespearian plays. Prerequisite: TH 155, 156, 255, 256 and permission of instructor.

**390 Stage Costume Design and Construction (3)**

Techniques of sewing and costume design and rendering; pattern drafting and construction. Additional lab time. Prerequisite: Permission of Instructor.

**391 Stage Lighting (3)**

Basic theory and practical application of lighting for the stage. Additional lab time required.

**392 Scene Design (3)**

Basic theory and practical design techniques and types of material used in theatre set design and construction. Additional lab time required.

**393 Sound Design (2)**

Theory, use and operation of sound equipment for theatre productions and studio recording applications. Additional lab time required.

**399 Facilities Management (3)**

In-depth study of the theoretical and ethical issues confronting managers. Topics include funding, budgets, contracts, management application and marketing. Prerequisites: Junior status and department approval.

**407 Shakespeare (3)**

Shakespearean plays showing the author's artistic development. Same as ENG 407.

**439, 440 Theatre History I, II (3) (3)**

Theatrical event and its attendant literature from ritual beginnings to the closing of the theatres in England; from the Restoration to the end of the 19th century. Same as ENG 439, 440.

**441 Contemporary Theatre (3)**

Continuation of Theatre History from the end of the 19th century through the latest developments of modern theatre productions, concepts and designs. Prerequisite: TH 440. Same as ENG 441.

**455 Advanced Acting - Acting for the Camera (3)**

On-Camera workshop focusing on specific acting techniques relevant to Film, TV and commercials. Prerequisite: Permission of instructor.

**476 Teaching Speech and Theatre in the Secondary School (2)**

Methods and materials available for teaching speech and for directing extra-curricular speech and drama activities; required for teacher certification. Prerequisite: Candidacy in the School of Education.

**487 Seminar (3)**

Extensive exploration of a particular topic relevant to theatre.

**459 Independent Study (3)**

Opportunity in research in areas of interest to student. Dean and Department approval required.

**492 Workshop (1-3)**

Special interest area developed from student and community requests.

**499 Internship (3)**

On-site experience in a professional theatre or with an approved organization. Prerequisites: Senior status and department approval. Requires a minimum of 120 hours.

## **THEOLOGY**

The Department of Theology at Barry believes that the academic study of Religious Thought/Theology is essential to a complete education. The Department fulfills its goals by the pursuit of the following objectives: 1) It studies Roman Catholic Theology in dialogue with other Christian traditions, non-Christian traditions and especially, Judaism. By this objective the Department fulfills Barry's commitment to Roman Catholic Education on the university level; 2) It acknowledges the human search for religious meaning and experience and seeks not only to offer the possibility of a study of the varying approaches to religious witnesses in history, but also to place Roman Catholic theology in communion with that quest; 3) It aspires to a fruitful encounter with other university disciplines since the department believes that theology's concerns are related to all vital human issues.



### **Requirements for the Major**

The Major consists of 42 credits for a single major; 36 credits for other major plans. Required courses: 111, and 301 in Biblical Studies; 207, 214, 311 in Christian Studies and 103, 349 and 414 in Religious Studies, as well as the Integrating Seminar, 487. A written or oral comprehensive completes the requirements.

### **Requirements for the Minor**

The Minor consists of 18 credits. The Department will plan a minor to suit the needs of the individual student. A nursing student, for example, might choose 111, 120, 214, 311, 422, plus the seminar (487).

### **Course Categories**

- I. Biblical Studies
  - 111 Biblical Covenant: Introduction to the Bible
  - 122 Jesus and the New Testament
  - 301 Theology of the New Testament: New Testament Studies
  - 304 Theology of the Old Testament
  - 495 Topics in Bible
- II. Christian Studies
  - 120 Christian Understanding of Human Person
  - 207 Christology
  - 214 Christian Morality
  - 300 Special Topics
  - 311 Sexuality, Sex and Morality
  - 327 Peace and Justice
  - 337 History of Christianity
  - 338 Church
  - 360 Women and Justice in the Church
  - 370 Protestantism
  - 413 Religion and Social Issues
  - 496 Topics in Christian Studies
- III. Roman Catholic Studies
  - 110 Catholicism
  - 220 Marriage in Roman Catholic Tradition
  - 336 Sacraments and Liturgy
  - 476 Process in Religious Education
  - 497 Topics in Roman Catholic Studies
- IV. Religious Studies
  - 103 World Religions: Religious Experiences of Humankind
  - 134 Judaism
  - 349 Sociology of Religion
  - 351 Future of Religion in America
  - 414 Religious Anthropology
  - 422 Religious Psychology

- 487 Seminar
- 492 Workshop
- 498 Topics in Religious Studies
- 499 Independent Study

### Course Descriptions — Theology Prefix: THE

#### **103 World Religions: Religious Experiences of Humankind (3)**

A survey of the history, beliefs, practices and contemporary influence of the major religions of the world: Hinduism, Buddhism, Confucianism, Taoism, Maoism, Shintoism, African traditions, Judaism, Christianity, and Islam; a discussion of a basic methodology for understanding religions.

#### **110 Catholicism (3)**

An explanation of the spirit, beliefs and practices of Roman Catholicism including its understanding of sacramentality, mediation and communion; a study of the Roman Catholic classics and issues confronting Roman Catholicism.

#### **111 Biblical Covenant (3)**

Contract made on Sinai by the people of Israel with Yahweh, their God; ambivalence of Israel and the mission of the prophets; fulfillment of the divine promises in the advent of the Messiah.

#### **120 Christian Understanding of Human Person (3)**

An investigation into the question of "What does it mean to be human?," according to Judaic-Christian teaching; a discussion of the relationship of the human person to self, others, the world, and the Divine as the basis for humanness; a study of the issues involved in these four relationships, e.g., freedom, grace, contemplation.

#### **122 Jesus and the New Testament (3)**

Study of Jesus in the New Testament and other sources in light of the examination of the New Testament texts; Jewish and Pagan worlds in New Testament times; history and kerygma; theology and tradition of the apostolic times and the encounter with Jesus and the spirit today.

#### **131 Judaism (3)**

A survey of modern Jewish history to discover roots and traditions of the Jewish people in American, Israeli and Soviet Union...view of the Holocaust and its effects on the world Jewry. The faith, beliefs and practices of Jewish life today.

#### **207 Christology (3)**

Person and message of Jesus as seen in the scriptures and the life of the church; contemporary understanding of Jesus and the challenge of Jesus for the Christian of today.

#### **214 Christian Morality (3)**

Value choices manifest in the teaching and example of Jesus; basic moral option and the nature of personal responsibility in conscience formation; influence of charity in the moral decisions of a Christian; critical areas in contemporary moral teaching and practice.

#### **220 Marriage in Roman Catholic Tradition (3)**

A personally-oriented and practical treatment of the marital union as seen in its Christian theological, psychological, and sexual aspects; and discussion of Christian marriage as a bond of love, as a sacrament, and as a way of human fulfillment.

#### **300 Special Topics**

##### **301 Theology of the New Testament: New Testament Studies (3)**

A study of specific themes or books of the New Testament focusing on particular questions of contemporary Christianity.

##### **304 Theology of the Old Testament (3)**

Examination of the Theology of the various books of blocks of writing in the Old Testament; an attempt to draw together and present the major themes, motifs, and concepts of the Old Testament; a study of the relationship between the Old Testament and the New Testament.

##### **311 Sexuality, Sex and Morality (3)**

An analysis of the nature of sex and sexuality, according to the sources and developments of Christian thought; the integration of those concepts into a contemporary moral and ethical system.



**327 Peace and Justice (3)**

The course is meant to explore the issues of peace and justice as fundamental concerns of Christianity today. Building on the foundation of scripture, Roman Catholic (and other churches') documents on these topics, students will explore the questions being asked today and some of the responses proposed.

**336 Sacraments and Liturgy (3)**

Christian sacraments from the perspective of religious experience and symbol; Christ as primordial sacrament; historical-theological development of each sacrament.

**337 History of Christianity (3)**

Survey of the beginning, growth and development of Christianity, through the medieval period to the time of the Reformation; post-Reformation trends briefly addressed.

**338 The Church (3)**

The Church as it emerges from New Testament times; development of different theological models of Church, with special emphasis on understanding the Church today in the light of Vatican Council II.

**349 Sociology of Religion (3)**

Analytical approach to the problem of reciprocal incidence and dependence between religious phenomena and the socio-cultural world; deals principally with the classical sociologists, Marx, Freud, Durkheim, Malinowski, Weber and their views of the function of religion and the process of secularism. Same as SOC 349.

**351 Future of Religion in America (3)**

Sociological analysis of the role of religion in American Society; viability of the function in the last quarter of the twentieth century.

**360 Women and Justice in the Church (3)**

An investigation of the anthropological, philosophical, and theological development of the roles of women in society and the Church; women, men and personhood; the experience of women in the Gospels and in the life of the early and contemporary Church; goals for a just society and Church.

**370 Protestantism (3)**

An introduction to the thought of the principle reformers: Luther, Calvin, Zwingli, Wesley; a study of speculative and practical forces operative in the fifteenth-sixteenth centuries which gave rise to the reforming movement; the formulation Protestant Orthodoxy.

**413 Religion and Social Issues (3)**

A study of the influence of religious convictions in confronting major social issues of today's world, e.g., population growth, famine, ecology, liberation and revolution, truth as a social issue, wealth, taxation.

**414 Religious Anthropology (3)**

Analysis of current cultural, philosophical, psychological and sociological perspectives concerning the nature of man in the light of the contemporary theological understanding of Revelation; illumination of man through the self-communication of the Divine in history.

**422 Religious Psychology (3)**

Application of psychological principles and recent investigative studies to various modes of religious behavior. The classic theoretical issues involving the potentially positive as well as unintended negative functions which religion may play intrapsychically, interpersonally and socially will be addressed.

**476 Process in Religious Education (3)**

Application of recent educational, psychological, and catechetical theory and practice to religious education; catechetical materials in current media. For majors only. Prerequisite: Candidacy in the School of Education.

**487 Seminar (3)**

Group research and interchange of ideas on a topic of contemporary significance in the field of Religious Studies. Required of major students.

**492 Workshop (1-3)**

**495 Topics in Bible (3)**

Specific themes, books, texts are chosen which have materialistic interest and relevance to the contemporary world.

**496 Topics in Christian Studies (3)**

The topics will change regularly and will be published within the department.

**497 Topics in Roman Catholic Studies (3)**

The topics will change regularly and will be published within the department.

**498 Topics in Religious Studies (3)**

The topics will change regularly and will be published within the department.

**499 Independent Study (3)**

Contract will be formulated by the professor and the student and approved by the dean.

The following courses are offered in connection with the Archdiocesan Certification program:

- 141 Teaching Religion in the 80's (1) (1)
- 142 Introduction to Sacraments (1) (1)
- 143 Moral Theology I & II (1) (1)
- 152 Introduction to Scripture (1) (1)
- 153 Foundations of Catholic Faith (since Vatican II) (1) (1)
- 160 Sacraments of Christian Initiation (1) (1)
- 161 The Church in Vatican Council II Documents (1) (1)
- 162 Prayer: Liturgical and Personal (1) (1)
- 163 Justice as Dimension of the Gospel (1) (1)
- 170 Coordinating the Religious Education Program (1 credit)
- 171 RCIA: Rite of Christian Initiation of Adults & Evangelization (1 credit)
- 172 Evangelization: Implications for Religious Education (1 credit)

**WOMEN'S STUDIES**

Women's Studies is an interdisciplinary program that explores the female experience and perspective by integrating biological, historical, literary, religious, political, economic, sociological, psychological, and anthropological perspectives of gender. Cutting across traditional academic boundaries, it coordinates courses in ten different disciplines.

The Women's Studies program provides students with the opportunity to take a minor in Women's Studies, to earn a certificate in Women's Studies, or to take individual courses for elective credit or personal enrichment.

**Women's Studies Minor**

The minor in Women's Studies requires a minimum of 21 credits (to include WMS 201 and WMS 487).

**Certificate Program**

The certificate program requires a minimum of 18 credits (to include WMS 201 and WMS 487). It is open to individuals who have at least 30 university credits or to individuals qualified by some other criterion to participate. The certificate program may appeal to individuals who hold Bachelor's degrees and who wish an additional specialization. It is also intended to supplement a student's traditional academic major.

In some instances and at the discretion of individual departments, courses may fulfill the requirements of particular majors or distribution requirements.

Transcripts will state "Minor in Women's Studies" upon request.



## Course Descriptions — Women's Studies Prefix: WMS

The following satisfy requirements for the Women's Studies minor or certificate. Other courses may be approved by the advisor of the program, if they are deemed appropriate.

### **201 Introduction to Women's Studies (3)**

Survey of the issues, topics, and theories relevant to Women's Studies. The interdisciplinary nature of the subject is emphasized by an overview of women's lives and contributions as studied in various academic disciplines. Special attention is paid to how women's experiences have been affected by sexuality, age, race, class, ethnicity, religion, education, and cultural differences.

### **487 Senior Integrative Seminar (3)**

Group seminar, requiring a research paper or integrating experience. Faculty- and student-led discussions provide a forum for integrating course material, exploring new topics, and clarifying issues.

The courses below are **special topics (WMS 300)**, some co-listed with designated academic disciplines.

### **Psychology of Women (also PSY 306) (3)**

Study of the various issues affecting the changing role of women in today's society; consideration given to psychological and social factors as they relate to contemporary feminine behavior.

### **Women in Hispanic Literature (3)**

Survey of the works written by the most outstanding women of the Hispanic world. Analysis of readings from aesthetic and ideological points of view.

### **Biology of Women (3)**

Anatomy and physiology of the human female with exploration of the health problems that occur in females as a consequence of being female.

### **Sociology of Gender (3)**

Examination of the roles of women from the perspectives of sociology and social psychology, with emphasis on gender inequality in the family, the workforce, the media, politics, religion, education, and the law.

### **Women and Religion (3)**

Exploration of the image and role of women from the perspective of religion, with particular emphasis on the Judaeo-Christian tradition.

### **Historical Perspectives of Women (3)**

Examination of the roles and contributions of women in the political, social, intellectual and economic life of particular countries and historical periods.

### **Women in the Workplace (3)**

Examination of issues or problems that have special relevance to female and male workers, managers or professionals: gender-based division of labor, roles, role stereotypes, role conflict, child care, medical plan coverage, maternity/paternity leaves, mentoring, networking, time management, stress, authority, communication, equal pay, discrimination, and sexual harassment.

### **Women: Psychology and Literature (3)**

An examination of selected literary works (fiction, poetry, essay, film, drama) for their expression of women's psychological experiences. Particular emphasis on traditional roles, stereotypes, psychological health (including the learning of roles, theories of personality, psychological treatment, role strain and role conflict), and traditional roles in transition.

### **Women In/And Literature (also HUM 300) (3)**

Examination of stereotypes, themes, and depiction of women in works of literature (fiction, poetry, essay, drama, and film) with particular emphasis on the development of feminist criticism and female creative expression.

**Gender and Culture (3)**

A cross-cultural perspective of the influence of various cultures and their social structures on women's roles and relationships with some emphasis on the nature/culture dichotomy, the social creation of gender, and the research for universals in all human societies.

Advising for the Women's Studies Program originates within the Department of English and Foreign Languages.



# D. Inez Andreas

## School of Business

Lloyd D. Elgart, J.D., D.B.A., Ph.D., Interim Dean  
Elliot Ser, D.B.A., Assistant Dean

The purpose of the academic programs in business is to prepare students to engage in professional careers in industry, government, hospitals, and other institutions. Because we live in a period of increasing demand in organizations for quality personnel to cope with complex organizational environments, the preparation of today's accountants, economists, managers, marketers, and other experts requires formal education of professional stature. Business programs at Barry University are based on sound ethical principles which enable graduates to make equitable and just decisions. We recognize that to be of lasting value, education for business must develop the ability in students to project their thinking and shape the future. Education in business, in order to be effective, should be dynamic.

### CLASS ATTENDANCE POLICY

Students manifest their responsibility in the regularity and punctuality of their attendance at class sessions and other appointed exercises of the School. There are no "free cuts," but absences due to illness or other reasonable causes generally entitle the student to make up missed work. If the number of such absences exceeds three in a three-credit course meeting three times weekly, or, two in a three-credit course meeting twice weekly, the professor should reduce the student's earned grade by one letter. If such absences exceed seven at any point in time during the semester in a three credit course meeting three times weekly, or, five in a three-credit course meeting twice weekly, the student should be issued a grade of "F" in the course.

Absences above three for exceptional reasons may be excused by the professor only if he/she is presented with a medical letter from a physician, or other appropriate significant documentation. As part of this policy three tardies constitute one absence in a course meeting thrice weekly and two tardies constitute one absence in a course meeting twice weekly.

## Requirements for Graduation

- (1) Completion of graduation requirements for undergraduates as listed under Academic Information in this catalog.
- (2) Completion of the core business curriculum and the required courses for one of the School of Business areas of specialization with a grade of C or better in each course. Students in the School of Business do not select a minor since they complete the business core curriculum.
- (3) Accounting majors applying for the CPA Exam in Florida must have at least 30 credit hours in addition to those required for the baccalaureate degree. These credits may be earned in the graduate division of the School of Business. (See Master of Professional Accountancy).
- (4) Students requiring remedial courses in Mathematics and English will need to take the freshman requirements during Summer I and Summer II following their first semester or year at Barry University.

## Degree Requirements:

### Corequisites (12 semester hours)

- \*MAT 108 Precalculus for Administration & Management
  - \*MAT 152 Elementary Probability & Statistics
  - CIS 180 Introduction to Computers
  - CIS 315 Administrative Applications of Computers
- \* These courses are used to partially fulfill the Math/Science distribution requirement and must be completed before 200 level business courses.

### Business Core (39 semester hours)

- BUS 181 Concepts of Business Behavior
- ACC 201 Principles of Accounting I
- ACC 202 Principles of Accounting II
- ECO 201 Principles of Economics I
- ECO 202 Principles of Economics II
- \*\*MGT 211 Management Science
- MGT 305 Management Concepts & Applications
- MKT 306 Marketing Concepts & Applications
- BUS 339 Business Law I
- BUS 340 Business Law II
- BUS 371 Social & Ethical Issues in Business
- FIN 319 Financial Management
- BUS 499 Business Policy Seminar

\*\*Prerequisite for 300-400 level courses.



**MAJOR FIELDS:****1. Accounting:**

ACC 335 — Intermediate Accounting I	3	ACC 400 — Accounting Information Systems	3
ACC 336 — Intermediate Accounting II	3	ACC 435 — Advanced Accounting	3
ACC 337 — Intermediate Accounting III	3	ACC 437 — Auditing	3
ACC 360 — Cost Accounting	3		
ACC 362 — Federal Income Tax	3		

Total 24

**2. Economics/Finance:**

ECO 300 — Special Topics in Economics		ECO 351 — Comparative Economics	3
FIN 300 — Special Topics in Finance		FIN 419 — Financial Management II	
*ECO 301 — Applied Macroeconomics		FIN 427 — International Finance	
*ECO 302 — Applied Microeconomics		*FIN 454 — Investments	3
FIN 316 — Money and Banking		*ECO 466 — International Bus.	3

Total 21

\*Required for both Economics and Finance tracks

**3. Management:**

MGT 352 — Human Resource Management	3	MGT 325 — Operations Mgmt.	3
MGT 400 — Mgmt. Inf. Sys.	3	MGT 409 — Org. Comm. and Behavior	3
MGT 427 — Managerial Decision Making	3	MGT 428 — Entrepreneurship	3
		ECO 466 — Internl. Bus.	3

Total 21

**4. Hospitality Management**

HOS 390 — Hospitality Mgmt Concepts	3	HOS 441 — Hospitality Practicum	3
HOS 391 — Food and Beverage Mgmt	3	(minimum of 400 hours)	
HOS 392 — Hospitality Marketing	3	HOS 491 — Seminar on Hospitality Mgmt Business Elective (approval req)	3
HOS 400 — Hospitality Info Systems	3		

Total 21

**5. Marketing:**

MKT 381 — Mktg. Research	3	MKT 384 — Retailing	3
MKT 382 — Advertising	3	MKT 402 — Marketing Mgmt. Prob.	3
MKT 383 — Sales Mgmt.	3	ECO 466 — Intl. Bus. & Finance	3
MKT 385 — Consumer Behavior	3		

Total 21

**Minor in Business (21 credits) (Needs approval of dean.)****Corequisites: Math 152; CDP 180**

BUS 181 Concepts of Business Behavior	3
ACC 201 Financial Accounting	3
ECO 201 Principles of Economics I	3
MGT 305 Management Concepts & Applications	3
MKT 306 Marketing Concepts & Applications	3
Choice of two business electives approved by the Dean.	6

### Minor in Economics (21 Credits) (Approval of Dean)

ECO 201 — Principles of Economics I	3	ECO 430 — Current Economic Issues	3
ECO 202 — Principles of Economics II	3	ECO 466 — Int'l Business & Finance	3
ECO 316 — Banking and Fiscal Policy	3	POS/ECO 406 — Political Econ of	
ECO 351 — Comparative Economics	3	Development	3

### Internship (3) — 443

Business majors may elect an Internship as an elective credit. A contractual agreement between the student and the School of Business is essential before beginning on-the-job experience. A letter of evaluation from the employer and a portfolio of performance must be submitted to the Director of Interns. Prerequisites: 3.0 GPA, Junior status, recommendation of faculty member and approval of the Director. CR/NC option only. Prefix of the course will be that of the individual major. Applicants initiate internship in the Student Development Center before approval of the Dean's Office.

### Course Descriptions — Accounting Prefix: ACC

#### 201 Principles of Accounting I (1)

Nature and function of accounting and its importance in the social order; the accounting cycle, the measurement of income, and valuation problems; reporting of financial position and results of operations; partnerships, and sole proprietorships. (Fall, Spring, Summer)

#### 202 Principles of Accounting II (3)

Corporate Accounting. Debt and equity financing; Cost accounting principles; budgeting and management decision-making. Prerequisite: ACC 201. (Fall, Spring, Summer)

#### 335 Intermediate Accounting I (3)

Advanced theory and accounting techniques for the recording and reporting of financial transactions; income determination; valuation problems in assets and equity accounting and price level impact. Prerequisite: ACC 202. (Fall)

#### 336 Intermediate Accounting II (3)

Income determination and valuation problems in asset and equity accounting; recognition and measurement of liabilities, stockholders equity, dilutive securities and investments. Prerequisite: ACC 335 (Spring)

#### 337 Intermediate Accounting III (3)

Continuation of Intermediate II (ACC 336). Liabilities, equities, earnings per share, cash flow statement, pensions and leases. Equity accounting for partnerships; interim and segment reporting. Prerequisite: ACC 336. (Fall)

#### 360 Cost Accounting (3)

Principles of cost accounting for both manufacturing and service industries. Topics include income statement measurement and analysis, break-even, job-order and process costing systems, overhead allocation and analysis operational and capital budgeting, variance analysis, scrap and managerial decision-making. This course is for Accounting majors only. Prerequisite: ACC 202. (Spring)

#### 362 Federal Income Tax (3)

A review of the Internal Revenue code and Regulations from an Accounting/Law perspective. Topics include determinations of income, deductions, exemptions and credits. This course emphasizes individual taxation and sole proprietorships. Prerequisite: ACC 201. (Fall)

#### 400 Accounting Information Systems (3)

Analysis, design, and implementation of manual computer-based accounting systems. Organization, operations, and controls. Preparation of flow charts, documentation analyses, and systems modifications. Internal control in computer-based accounting systems. Prerequisites: CIS 180, CS 315, ACC 335. (Fall)



**435 Advanced Accounting (3)**

Accounting for business expansion; branch accounting, mergers, acquisitions, consolidations, consolidated financial statements; equity method of accounting; accounting for foreign operations; fund accounting. Prerequisite: ACC 337. Senior Status (Spring)

**437 Auditing (3)**

Basic auditing standards and procedures as applied to both internal and public auditing, professional ethics, audit programs, working papers, legal responsibility, auditing computerized systems, completing the audit and reports. Prerequisite: ACC 337, Senior Status. (Spring)

**Course Descriptions — Business Prefix: BUS****181 Concepts of Business Behavior (3)**

For freshmen business majors and non-business majors. Principles and mechanics of business behavior, covering issues in the business-society relationship, including past history, world events, economic issues, and future expectations. (Fall, Spring)

**339 Business Law I (3)**

Designed to afford the student a background of basic legal principles, concepts and the nature of the judicial process. The first part of the course is devoted to the legal environment of business, including common, statutory and administrative law, federal and state court structure, theories of law, court procedure, conflicts of law and judicial forms of dispute resolution. This is followed by a detailed study of contracts including basic elements, interpretation, remedies for breach, assignment and discharge. The course concludes with agency and employment. (Fall, Summer)

**340 Business Law II (3)**

An extension of Business Law I (339) with emphasis on personal property, real property, leases, bailments, bankruptcy, insurance, single proprietorships, partnerships, corporations, and selected portions of the Uniform Commercial Code. (Spring, Summer)

**371 Social and Ethical Issues in Business (3)**

This course is designed to create an awareness of and a sensitivity to social and ethical issues which can, and should, influence the management of business enterprises by entering into the decision making processes of today's business managers. Focus is on the legal, social and ethical implications of problems in contemporary business issues such as employer-employee relationships, consumerism (advertising and product safety), environmental conservation, etc. Numerous cases are studied to illustrate the complexities of these issues at the society/business interfaces. (Spring)

**359, 459 Independent Study (3)**

Opportunity for research in area of special interest. Prerequisite: recommendation by faculty member and approval of the Dean. Junior, Senior status only.

**499 Business Policy Seminar (3)**

A capstone course which integrates the various business disciplines. Using a senior management perspective, the student addresses strategy formulation and implementation in a volatile business environment. The case method of instruction is actively used. Prerequisite: Senior standing. (Spring)

**Course Descriptions — Economics Prefix: ECO****201 Principles of Economics I**

Macroeconomic analysis; fundamentals of supply and demand and the American economy; gross national product and other national income measures; causes and consequences of inflation and unemployment; Keynesian; monetarist, supply-side and other macroeconomic theories; fiscal and monetary policy; rational expectations; determinants of economic growth. (Fall, Spring, Summer)

**202 Principles of Economics II (3)**

Microeconomic analysis: advanced supply and demand analysis; the price system; elasticities of demand and supply; principles of consumer behavior and the theory of demand; maximization of utility; theory of the firm; cost analysis in the short and long run; profit maximization; market structures in a modern capitalist economy: competition, monopoly, oligopoly, oligopolistic competition; labor and other resource markets; market failure and the role of government; foreign trade and the international economy. Prerequisite: ECO 201. (Fall, Spring & Summer)

**351 Comparative Economic Systems (3)**

Detailed analysis of the world's major economic systems in both industrialized and developing countries; the universality of scarcity and the main economic questions; the importance of natural, human, and man-made resources; variants of market economies; variants of socialist economies; the role of government in owning, managing, and distributing resources; developing countries and the way out of poverty; attitudes towards foreign trade, credit, and banking; agricultural and industrial policies; the role of economic planning. Prerequisite: ECO 201, ECO 202 (Fall)

**406 Political Economy of Development**

Analysis of the process of political and economic development. Topics include modernization, industrialization, the new international economic order, the role of the state and military and ethical issues of development. Prerequisite: ECO 201 and 202 and Departmental approval. Same as POS 406. (Spring)

**466 International Business (3)**

Overview of the unique problems faced by firms engaging in international activities; the importance of understanding the foreign economic, social, political, cultural, and legal environment; the mechanics of importing and exporting; joint ventures, franchising, and subsidiaries; international dimensions of management, marketing, and accounting; international financial management; the special problems of multi-national corporations; recent problems of the international economic system; country-risk analysis; the increasing use of countertrade. Prerequisites: ECO 201, ECO 202, MGT 305, MKT 306. (Fall)

**Course Descriptions — Finance Prefix: FIN****316 Money and Banking**

The nature and functions of money and finance; financial markets and institutions; financial instruments and interest rates; structure, functioning, and regulation of commercial banks and other depository institutions; the role and instruments of the Federal Reserve System; monetary theory and policy; fiscal theory and policy; international financial relations; determinants and consequences of spot and forward foreign exchange rates; evolution of the international monetary system. Prerequisite: ECO 201, ECO 202. (Fall)

**319 Financial Management I (3)**

A basic financial review with emphasis on business decision-making using sound and proven financial techniques. Topics include cash flow, working capital, capital budgeting, future and present value, capital structures, debt/equity analysis and efficient management of assets, leverage and equities. Prerequisites: ACC 201, MGT 209. Junior/Senior status. (Fall, Spring)

**419 Financial Management II**

This course is a continuation of FIN 319 covering more advanced issues such as options, futures, pensions, leasing, mergers, acquisitions, and bankruptcies. Prerequisite: FIN 319. (Spring)

**454 Investments (3)**

Basic course covering techniques, vehicles and strategies for implementing personal and professional investment goals. Topics covered include stocks, bonds, stock exchanges, investment analysis, etc. A broad portfolio approach to investing is used, highlighting risk-return trade-offs. Prerequisites: ACC 201, 202, FIN 319. (Spring)

**Course Descriptions — Hospitality Management Prefix: HOS****390 Hospitality Management Concepts (3)**

Overview of all aspects of the Hospitality industry, including growth and development, departmental structure, operations marketing, accounting, food and beverage services, and the "Innkeeper" philosophy. Future prospects for the industry, career opportunities, and the education and development of future hospitality managers. (Fall)

**391 Food and Beverage Management (3)**

Overview of food and beverage operations, including management and accounting systems, basic terminology, questions of quality control, etc. Basic principles and procedures of effective beverage selection, control and management will also be stressed. Prerequisite: HOS 390. (Spring)



**392 Hospitality Marketing (3)**

Application of modern marketing techniques to the hospitality industry. Planning and execution of marketing strategy — topics include consumer demand, marketing intelligence and planning, advertising and direct mail, outside and in house selling, and trade and industry associations. Prerequisites: HOS 390, MKT 306. (Spring)

**400 Hospitality Information Systems (3)**

Hotel and other service-related computer applications, including computer-assisted processing, reservations, reporting and specialized accounting techniques. Basic computer hardware and software concepts to enable managers to communicate with data processing personnel. Prerequisites: HOS 390, HOS 391, 392, MGT 209. (Fall)

**444 Hospitality Practicum (3)**

Fieldwork in an organization for on-the-job skill development. Normally supervision is provided by a qualified individual in the organization, with frequent consultation by a faculty sponsor. A written report is required of the student. Practicums may be part-time or full-time, but require a minimum of 400 hours of practicum experience. Prerequisites: HOS 391, HOS 392. (Fall)

**491 Seminar in Hospitality Management (3)**

Analysis and synthesis of current problems in hospitality management that are not otherwise covered in the regular curriculum. Interaction will be planned with faculty and select industry executives. Prerequisites: HOS 391, HOS 392, HOS 400. (Spring)

**Course Descriptions — Management Prefix: MGT****211 Management Science (3)**

Quantitative modeling techniques including payoff matrices, decision trees, simulation, forecasting, project planning, inventory, waiting lines and linear programming along with applications. Prerequisites: MAT 108, MAT 152, CDP 180. (Fall, Spring, Summer) Course must be completed before 300-400 level business courses.

**305 Management Concepts and Applications (3)**

Elements of the management process; decision-making, planning, organizing, directing, controlling; the art and science of managing modern organizations; the general scheme of operations and management functions. A computer management simulation, included as part of the curriculum, adds a practical dimension to the academic materials and real world atmosphere. Prerequisites: ACC 201, 202, ECO 201, 202, MGT 211. (Fall, Spring, Summer)

**325 Operations Management (3)**

Study of processes used to efficiently and effectively transform resources into goods and services. Process types, capacity planning, inventory systems, workforce utilization and quality management to produce defect-free, competitive products and services delivered on time. Prerequisites: MGT 211, 305; MKT 306. (Spring)

**352 Human Resource Management (3)**

The focus of this survey course is to equip the prospective manager with an understanding of the issues involved in effective management of staff. Topic areas discussed include human resource planning, recruitment selection, training/development, EEO, performance evaluation, quality of work life and labor-management relations. Prerequisites: ECO 202, MGT 305. (Spring)

**400 Management Information Systems (3)**

Study of information systems management including the topics of planning, control, organization, systems analysis and design. A survey of computer technology. Discussion of systems design for the functional areas. Prerequisites: CIS 180, ACC 202, MGT 305; Senior status. (Fall)

**409 Organizational Communication and Behavior (3)**

Intensive exploration of the skills and application of effective communication, emphasis on report writing, and oral presentation. Perceptual process of managing conflict interpersonal communication, group behavior and decision making; problem-solving and applied motivation, job design. Prerequisite: MGT 305. Senior Status. (Fall)

**427 Managerial Decision Making**

Application of the basic concepts of computer simulation, decision theory and decision support systems to practical managerial problems. Use of computer packages and games. Prerequisites: MGT 305, CIS 315. (Fall)

**428 Entrepreneurship**

Study of the creation of new businesses including business organizations, identifying opportunities, preparing a business plan, sources of finance and launching a new business. Prerequisite: MGT 305, MKT 306, FIN 319. (Spring)

**Course Descriptions — Marketing Prefix: MKT****306 Marketing Concepts and Applications (3)**

Elements of the marketing function in bringing the organization's goods and services from the producers to the consumer. Prerequisites: ACC 202; ECO 202; MGT 211. (Fall, Spring, Summer)

**381 Marketing Research (3)**

Quantitative and analytical tools and techniques that are used for studying marketing data and formulating marketing strategies and tactics. Prerequisites: MAT 152, MGT 211, MKT 306. (Fall)

**382 Advertising (3)**

Advertising in its social, economic and management contexts; advertising research; preparing advertising campaign, appropriations and selection of media; layout, copy, and printing/engraving methods. Prerequisite: MKT 306, or permission from the Dean. (Spring)

**383 Sales Management (3)**

Problems of sales management, sales policies, selection and training of sales persons, preparation of manuals, methods of compensation for sales force, various methods of sales stimulation, administration, and budgeting, measuring the sales manager's contribution to profitable operations. Prerequisites: MGT 305, MKT 306. (Fall)

**384 Retailing (3)**

Retail store management, location, buying, merchandise control, policies, customer relations; pricing, expenses and profits, inventory and layout; administrative problems. Prerequisites: MGT 305; MKT 306. (Spring)

**385 Consumer Behavior (3)**

An analysis of the actions and decision processes of individuals and organizations involved in discovering, evaluating, acquiring, consuming and disposing of products and services. The disciplines of Marketing, Psychology and Sociology will be used to understand how consumer behavior is the basis for management decision making. Prerequisite: MKT 306. (Fall)

**402 Marketing Management Problems (3)**

Development of managerial decision-making techniques and problem-solving through practice in analyzing practical marketing cases. Prerequisites: MGT 305, MKT 306. Senior status. (Spring)

**B.S. IN COMPUTER INFORMATION SYSTEMS**

This program prepares students for careers in the application of computers and information technology to organizations. Theoretical foundation includes courses in systems design, programming, computer communications, and database management systems. Practical work includes software development projects and the application of systems development methodology to real-world problems.

**Liberal Arts Requirements:**

	Credits
Theology and Philosophy	9
Written and Oral Communications	9
*Natural Science and Mathematics	9
Social and Behavioral Sciences	9
Humanities and Arts	9
	45

\*Must include MAT 108 (Precalculus) and MAT 152 (Probability and Statistics)



<b>Computer Core Courses:</b>			Credits
CIS	180	Introduction to Computers	3
CIS	204	BASIC Programming	3
CIS	301	COBOL Programming	3
CIS	302	Advanced COBOL Programming	3
CIS	315	Administrative Applications of Computers	3
CIS	400	Information Systems Analysis	3
CIS	412	Applied Software Development Project I	3
CIS	433	Database Management Systems	3
CIS	488	Operations Research	3
CS	440	Data Communications	3
CS	471	Computer Networks	3
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			33

<b>Program Requirements:</b>		Credits
	Liberal Arts	45
	Computer Core	33
	Computer Electives	15
	Math or Business Electives	12
	General Electives	15
		<hr/>
		120

#### **Minor in Computer Information Systems (18 Credits)**

The requirement for Minor in Computer Information Systems is 18 credit hours of computer courses consisting of the following 3 courses plus 3 additional Computer Science (CS) or Computer Information Systems (CIS) courses. Students interested in a minor should discuss their education and career objectives with a CIS advisor.

			Credits
CIS	180	Introduction to Computers	3
CIS	204	BASIC Programming	3
CIS	315	Administrative Applications of Computers	3
			<hr/>
			9
			<hr/>
			18

#### **B.S. IN MANAGEMENT INFORMATION SYSTEMS**

This program prepares students for careers in the application of computers and information technology to organizations. Theoretical foundation includes courses in systems design, programming, computer communications, and database management systems. Practical work includes business software development projects and the application of systems development methodology to real-world problems.

Major emphasis is on Management Information Systems and includes a minor in business.

<b>Liberal Arts Requirements:</b>		Credits
	Theology and Philosophy	9
	Written and Oral Communications	9
	*Natural Science and Mathematics	9
	Social and Behavioral Sciences	9
	Humanities and Arts	9
		<hr/>
		45

\*Must include MAT 108 (Precalculus) and MAT 152 (Probability and Statistics)

<b>Computer Core Courses:</b>		Credits
CIS 180	Introduction to Computers	3
CIS 204	BASIC Programming	3
CIS 301	COBOL Programming	3
CIS 302	Advanced COBOL Programming	3
CIS 315	Administrative Applications of Computers	3
CIS 400	Information Systems Analysis	3
CIS 412	Applied Software Development Project I	3
CIS 433	Database Management Systems	3
CIS 488	Operations Research	3
CS 440	Data Communications	3
CS 471	Computer Networks	3
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		33

<b>Program Requirements:</b>		Credits
	Liberal Arts	45
	Computer Core	33
	Computer Electives	6
	Business Minor	21
	General Electives	15
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		120

<b>Business Minor courses:</b>		Credits
BUS 181	Concepts of Business Behavior	3
ACC 201	Financial Accounting	3
ECO 202	Principles of Economics II	3
MGT 305	Management Concepts and Applications	3
MKT 306	Marketing Concepts and Applications	3
	(Choice of two business electives approved by the Dean.)	6
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		21



## B.S.T. IN COMPUTERS IN AVIATION

With the growing dependence of the aviation industry on computers a good working knowledge of computers is essential for nearly all work roles. The B.S.T. in Computers Cap Program is designed to build a sound working knowledge of computers upon a solid base of aviation training. The program is designed to recognize the A.S. in Aviation programs as equivalent to the freshmen and sophomore years at Barry University (up to 60 semester credits). Aviation Training and at least 18 general education credits will be earned at Miami-Dade Community College and the Computer Training plus the balance of the liberal arts credits will be gained at Barry University.

The program is designed for the Community College graduate with an A.S. degree in Aviation, assuming that at least 18 credits in liberal arts will have been earned with the aviation courses.

### Distribution Requirements:

	Credits
Theology or Philosophy	9
Written and Oral Communication	6
Natural Science and Mathematics	3
Social and Behavioral Sciences	3
Humanities and Arts	6
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	27

### Computer Core Courses:

	Credits
CIS 180 Introduction to Computers	3
CIS 204 BASIC Programming	3
CIS 301 COBOL Programming	3
CIS 315 Administrative Applications of Computers	3
CIS 325 Advanced COBOL Programming	3
CIS 400 Information Systems Analysis	3
CIS 412 Applied Software Development Project I	3
CIS 433 Data Base Management Systems	3
CIS 488 Operations Research	3
CS 440 Data Communications	3
CS 471 Computer Networks	3
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	33

### A.S. Degree in Aviation at Miami Dade Community College

60

**Total 120**

Students may take as many elective courses as they choose in addition to the required courses to meet the University's degree requirement of 120 credits.

## Course Descriptions — Computer Information Systems Prefix: CIS

### **180 Introduction to Computers (3)**

DPMA-CIS-1 Equivalent. Overview of computer technology and utilization, suitable for students in all disciplines. Course introduces concepts of computer hardware, software, procedures, and systems. Includes hands-on computer use. Projects include word processing, spreadsheet, and database applications as well as an introduction to programming in the BASIC language. Prerequisite: none.

### **204 BASIC Programming (3)**

Introduction to programming and the BASIC programming language. Emphasis on programming techniques, array processing, string manipulation and files. Prerequisite: CIS 180.

### **205 Word Processing (3)**

An intensive course in the use of microcomputer word processing software in document preparation. The course will cover: outline processors, spell checkers and thesauruses, style checkers, mailing lists and merge printing. Prerequisite: none.

### **301 COBOL Programming (3)**

DPMA-CIS-2 Equivalent. Introduction to computer programming in a business environment. Emphasis on the fundamentals of structured program design, development, testing, implementation, and documentation of business-oriented applications using COBOL. Prerequisite: CIS 180.

### **302 Advanced COBOL Programming (3) (Formerly CDP 325)**

DPMA-CIS-3 Equivalent. A continuation of CIS 301. Includes coverage of sequential and random access files and processing techniques and development of programs and systems of programs for batch and interactive environments. Prerequisite: CIS 301.

### **303 RPG II Programming (3)**

Fundamentals of structured program design, development, testing, implementation and documentation of business-oriented applications. Coverage of language syntax, data and file structures, input and output devices, and operating system facilities for implementing batch programs. Prerequisite: CIS 180.

### **315 Administrative Applications of Computers (3)**

This course is the logical continuation of CIS 180. It includes extensive hands-on experience with commercially available business productivity software packages including spreadsheets, database, and wordprocessing. Prerequisite: CIS 180.

### **317 Principles of Aircraft Operations (3)**

Includes principles of aerodynamics, engines. Federal Aviation Regulations, Airman Information Manual, flight physiology, physics of the atmosphere, basic meteorology, communications, control, safety considerations, operating parameters and envelopes, weight and balance, flight planning. Student is prepared for the FAA Private Pilot written examination upon completion. Prerequisite: none.

### **318 Aviation Regulations and Law (3)**

Organization of aviation law. Aviation law information systems. General law v. Federal Aviation Regulations. Crew Regulations. Aircraft manufacture and maintenance regulations in commercial and private aviation, including part 121. Operations regulations including instrument operations. Prerequisite: none.

### **319 Meteorologic Information Systems (3)**

Principles of meteorology. Air mass physics. Large systems. Local weather systems. Measuring and monitoring systems. Weather data communications systems. Flight weather reporting systems. Prerequisite: none.

### **320 Navigation Information Systems (3)**

Advanced airspace organization and air traffic control. Navigation with reference to flight instruments alone. Navigation information systems. Data and voice communications systems. Instrument approach and landings.

### **400 Information Systems Analysis (3)**

DPMA-CIS-4 Equivalent. Study of life cycle and prototyping methodologies used to develop, implement and maintain computer-based information systems. Discusses transaction processing, management information and decision-support systems. Includes case studies and team presentations. Prerequisite: CIS 180.



**403 Systems Analysis and Design Project (3)**

Student teams apply systems development methodology to practical problems. Emphasis is on translating user requirements into specific recommendations for hardware, software, security, operational procedures and staffing. Projects are formally presented. Prerequisite: CIS 400.

**405 Managing the Automated Office (3) (Formerly CS 400)**

An overview of the new generation of computer-based office systems and management. Includes facilities planning, equipment and software selection, security, personnel, training and management. Prerequisite: none.

**410 Statistical Computing (3)**

An introductory course in computer applications to statistical research using SPSSX. Topics covered: descriptive statistics (means, standard deviations, histograms); one way and multi-way tabulations of frequencies; group comparisons (T-tests), correlations, scatterplots and regression lines; one and multi-way analyses of variance. Prerequisite: CS 400.

**412 Applied Software Development Project I (3)**

DPMA-CIS-7 Equivalent. Application of computer programming and system development concepts, principles and practices to a comprehensive system project. Use of project management methods, project scheduling and control techniques, formal presentations and group dynamics. Development of data base to support the system. Prerequisites: CIS 204 or CIS 301.

**413 Applied Software Development Project II (3)**

Continuation of CIS 412. Application of computer programming and system development concepts, principles and practices to a comprehensive system project. Use of project management methods, project scheduling and control techniques, formal presentation and group dynamics. Development of data base to support the system. Prerequisite: CIS 412.

**415 Applications Software (3)**

An overview and evaluation of commercially available software for business application on PC's. Word processing, spread sheets, database and telecommunications software package are presented. Prerequisite: none.

**418 Managing Computer Resources (3)**

A study of the acquisition, allocation, maintenance, and use of computing resources within work organizations. Prerequisite: None.

**420 Professional Office Workstations (3)**

Includes aspects of ergonomics, lighting, values and features. Opportunity for extensive hands-on experience with a variety of hardware and software. Special attention is paid to the new generation of video display units, keyboards and computer furniture. Prerequisite: none.

**425 Computer Communications (3)**

An introduction to PC-based computer communications. Presentation and overview over commercially available telecommunications software programs. Hands-on experience is included. Prerequisite: none.

**433 DataBase Management Systems (3)**

DPMA-CIS-6 Equivalent. Discussion and application of data structures, indexed and direct file organizations, models of data including hierarchical, network and relational. Discussion of storage devices, data administration and data analysis, design and implementation. Prerequisite: CIS 400.

**488 Operations Research (3)**

Development, structure and functions of computer assisted decisions systems. The topics will include forecasting, simulation, linear programming, and inventory models, PERT/CPM. Prerequisite: MAT 108 and MAT 152, and CIS 400.

# School of Education

Evelyn Piche, O.P., Ph.D., Dean

The School of Education offers programs leading to the degree of Bachelor of Science. Graduate work is offered leading to the degree of Master of Science and the degree of Specialist in Education (Ed.S.). The School of Education is approved by the Department of Education of the State of Florida as a standard teacher training program, and because of Florida's reciprocal certification agreement, is in a position to graduate students eligible for teacher certification in most states.

The purpose of degree programs in the School of Education is to offer students education which will prepare them for work as professional teachers, counselors and leaders. The programs, designed to promote the objectives and purposes of the University, focus specifically on the function of the teachers, counselors and other professionals in contemporary society.

## **ELEMENTARY AND EARLY CHILDHOOD (PRIMARY) EDUCATION MAJOR**

Arlene T. Shannon, Ph.D., Program Advisor

Sr. Kathy Hollywood, Ph.D., Advisor

This program, which prepares students for teaching careers in the elementary school, emphasizes both general and professional courses.

### **General Preparation**

Theology and Philosophy	9 credits.
Communications	English 111 and 112; Speech 312.
Science and Mathematics	Mathematics 201 and 202; 6 credits in science.
Social Sciences	Geography 307; 3 credits in History.
Human Adjustment	Psychology 281.
Humanities and Applied Arts	English 320; Art 376; Music 376.
Computer Education	Computer Education 336 or 410.

### **Professional Education**

Major (60 cr.) — EDU 151, 218, 322, 344, 362, 366, 388, 414, 417, 435, 441, 465, 466, 470, 472, 493, 499, ENG 320. Prerequisites for student teaching: EDU 151, 218, 322, 362, 366, 388, 435, 466.



## COMPUTER EDUCATION

Robert L. Burke, Ed.D., Director, Center for Instructional Technology  
Joel S. Levine, Ed.S., Director of Computer Education Programs  
Timothy E. Higginbotham, Ph.D., Advisor

The School of Education offers students at Barry University an opportunity to take a number of undergraduate computer education courses. These courses give students expertise in the field of computer technology as it applies to education.

At the time of printing this catalog the Bachelor of Science degree program for Computer Education was not finalized. It is projected that by Fall 1990 the Computer Science Education program will commence.

## EDUCATION MINOR

Students may choose education as a minor ONLY IF they are majoring in a field which is both a state and University approved program for teacher education.

Major (a minimum of 30 cr.) — Requirements for major in teaching field, including the special methods course (476) related to the specific discipline.

Minor (24 cr.) — Secondary Education — Education 151, 218, 417, 463, 468, 499. Prerequisites for student teaching: Education 151, 218, 463, and Special Methods 476.

## ADMISSION TO THE SCHOOL OF EDUCATION

Declaration to enter the teaching profession represents *informal* admission to the School of Education. Candidacy is considered *formal* admission to a Teacher Education Program and to the School of Education. Both education majors and minors must be accepted as candidates to the School before they are allowed to enroll in more than 12 hours of professional education courses.

Transfer students may enroll in Education courses for only one semester without having been accepted into a Teacher Education Program. Candidacy application forms are available from the Office of the Dean, School of Education.

### Prerequisites for Candidacy

Students must meet the following requirements before applying for candidacy:

1. A grade of C or better in the written English components of the distribution requirements.
2. A grade of C or better in one of the following mathematics components:
  - a. Math 201 and Math 202.
  - b. Math 101.
  - c. Six semester hours of college level mathematics.
3. Successful achievement of a minimum score of either 840 on the SAT or 17 on the ACT.

## STUDENT TEACHING

Sister Marie Siena, O.P., Ed.D., Director

The student teaching program represents the culminating phase in teacher preparation and consists of a carefully planned sequence of laboratory experiences under the supervision of professional educators. During student teaching, a full time schedule (a minimum of 12 credits) must be carried by the student. Passing of all sections of the Florida Teacher Certification Examination is required for credit in student teaching.

**Prerequisites for Student Teaching** — Students must participate in the Florida Teacher Certification Examination and achieve a satisfactory score on the CLAST prior to receiving a student teaching assignment.

Admission to the student teaching program also requires senior status (a minimum of 90 credits of course work completed), a minimum grade point average of 2.5 and a grade of C or better in all required professional Education courses.

Prior to student teaching, courses required to meet the general preparation requirements should be taken to assure that the student will not have to delay graduation. All students must have completed a minimum of 30 credits at Barry prior to student teaching. Prerequisites for student teaching in specific programs are listed under program descriptions.

Students must earn a C or better in student teaching in order to successfully complete their Education major or minor.

### Course Descriptions — Education Prefix: EDU

#### **151 Introduction to Education (3)**

Principles of education with emphasis in school and society, history and philosophy of education. Field experience required.

#### **218 Educational Psychology (3)**

Application of psychology to the field of education, innate and acquired forms of behavior control, motivation of learning, transfer of training, individual differences in intelligence and achievement, evaluation and measurement. Field experience. Prerequisite: EDU 151 or equivalent.

#### **263 Organization and Use of Audio-Visual Materials (3)**

Selection and use of audio-visual aids; community resources; training for effective organization and distribution of learning materials appropriate to various age levels.

#### **320 Children's Literature (3)**

Survey of literature suited to the needs of children. See ENG 320.

#### **322 Methods of Teaching Reading (3)**

A foundation and survey of reading methods, strategies, and materials appropriate for use at the primary and elementary levels. Field experience includes teaching reading lessons at the appropriate grade level.

#### **344 Teaching Health and Physical Education in the Primary/Elementary School (3)**

Methods, materials, content material and organizational procedures for conducting primary/elementary school health and physical education programs; practice in teaching activities in primary/elementary school health and physical education programs. Field experience.

#### **362 Teaching Arithmetic (3)**

Content, methodology, and materials for teaching modern mathematics in the primary/elementary school; field experience required in a primary/elementary school mathematics program. Prerequisite: MAT 201.



**366 Teaching Social Studies in the Primary/Elementary School (3)**

Content, materials and methodology in the social science field needed for the instruction of primary/elementary children. Field experience.

**388 Teaching Science in the Primary/Elementary School (3)**

Principles and methods of selecting and organizing suitable science experiences for primary/elementary school children. Emphasis on Process Skills, "hands-on" activities, field trips, and active participation. Field experience.

**409 Multiculture Primary Education (3)**

The national and international dimensions of cultural diversity are studied to develop the understandings for developing primary school curriculum and instruction appropriate for a cultural pluralistic school setting.

**410 Multiculture Elementary Education (3)**

The national and international dimensions of cultural diversity are studied to develop the understandings for developing elementary school curriculum and instruction appropriate for a cultural pluralistic setting.

**411 Speech Correction for Children (3)**

Elementary, non-technical course in speech correction for the teacher who works with speech handicapped children in the classroom. See SPE 411.

**412 Teaching the Elementary Mainstreamed Exceptional Student (3)**

An introduction to exceptional student education in the elementary years, for those preparing for regular classroom teaching. Procedures for instructing elementary school students mainstreamed in the regular classroom are included.

**414 Classroom Management (3)**

Techniques for the observation, description, measurement, and evaluation of student behavior are studied. Ways to strengthen positive behavior and eliminate distracting non-productive negative behavior are applied in classroom situations. For preservice teachers K-6, applied project at a specific grade or subject level required.

**415 Guiding Primary Learning (3)**

How young children learn and the factors influencing learning are the basis for designing instruction to facilitate primary learning. An application of the principles of learning is applied to primary classroom situations.

**416 Guiding Elementary Learning (3)**

Learning theory relevant to the nature of children and the factors influencing learning are used as the foundation for facilitating learning in the subject areas in the elementary classroom.

**417 Evaluation and Measurement in Education (3)**

Theory of group and individual tests in education decision-making and means of accountability; laboratory experience in the writing of test items and design of tests.

**435 The Teaching of Language Arts in Primary/Elementary Education (3)**

Methods and materials for instruction in all areas of the language arts curriculum in primary and elementary grades. Field experience.

**436 Strategies for Primary Diagnostic-Prescriptive Instruction (3)**

A framework is developed for diagnostic-prescriptive teaching in the primary classroom. Classroom organization practices and teaching strategies which carry out the model are included.

**437 Strategies for Elementary Diagnostic-Prescriptive Instruction (3)**

A framework is developed for diagnostic-prescriptive teaching in the subject areas at the elementary level. Classroom organization, materials, and instructional strategies are included.

**438 Teaching the Primary Mainstreamed Exceptional Student (3)**

An introduction to exceptional student education in the primary years for those preparing to teach in the regular classroom. Strategies for instructing primary exceptional students mainstreamed in the regular classroom are included.

**441 Primary/Elementary School Curriculum (3)**

Principles and problems in primary/elementary school curriculum; practical experiences for the student in developing criteria for valid practices and curriculum change.

**442 Secondary School Curriculum (3)**

Current trends in modern secondary school curriculum; practical experiences in developing criteria for valid practices and curriculum change.

**462 Principles of Teaching and Testing (Primary/Elementary) (3)**

General and specific principles which underlie approaches to teaching and learning processes in the primary/elementary school; experience with innovative methods and materials designed to diagnose and remediate problems arising from the needs of the primary/elementary school child.

**463 Principles of Teaching and Testing (Secondary) (3)**

General and specific principles which underlie approaches to teaching and learning processes in the secondary school, with emphasis upon problems arising from adolescent needs.

**465 Language Acquisition in Primary Education (3)**

Deals with the fundamental concepts and questions of language acquisition from ages birth to nine years; relates those concepts and questions to the primary classroom. Field experiences observing children and their language and interacting with children through language required.

**466 Diagnostic Teaching of Reading in the Primary/Elementary Classroom (3)**

Techniques of informal reading diagnosis, interpretation, and planning for individualized and small group instruction for the primary and elementary classroom. Prerequisite: EDU 322 or equivalent.

**467 Foundations of Reading Instruction (3)**

A more advanced survey of methods, techniques and materials for teaching reading K-12, including current strategies and trends.

**468 Reading in the Content Areas (3)**

Strategies for developing students' reading abilities in the content area subjects at the primary, elementary, middle, and secondary levels. Focus is on the instructional materials and methods for subject area teaching in vocabulary, comprehension, study strategies, and text learning experiences. Informal evaluation techniques to meet individual differences in reading abilities and interests. Course projects and field experiences in specific area at appropriate grade level or subject area.

**470 Introduction to Exceptional Children (3)**

Detection of physical, mental, and emotional exceptionalities in children and their educational provision.

**471 Psycho-Social Foundations in Primary Education (3)**

Improving understanding of the socialization process for children; conceptualizing and accepting responsibility for improving children's interpersonal relations; study and evaluation of the primary curriculum as it contributes to the development of social and emotional sensitivity.

**472 Primary Programs and Practices (3)**

Covers the foundations of the primary education curriculum; emphasizes building a basic curriculum related to perspectives of emotional, social, perceptual-cognitive, physical, and language development patterns. Addresses play, communication, integrating the arts, bilingualism, and multicultural issues. Observations at school sites required.

**478 The Learning Disabled Child (3)**

Causes of learning disabilities and how they affect children in their social, emotional, and intellectual development; practical experiences in the study of how children learn control of movement, language, and thought.

**481 Learning Strategies for Exceptional Student Education (3)**

Specific procedures and methods for implementing learning strategies for teaching ESE students; the strategies focus on teaching ESE students how to learn and how to perform academic tasks.

**483 Educational Assessment of the Exceptional Child (3)**

Laboratory course in methods of diagnosing and individualizing instruction in specific curricular areas of Exceptional Student Education; alternate methods of diagnosis and prescriptive learning.

**484 Reading Diagnosis (3)**

Methods of diagnosing reading problems, interpretation of tests, and identifying reading-learning needs K-12. Prerequisite: EDU 322, 467 or equivalent.

**490 Corrective Reading (3)**

Determining and implementing appropriate classroom teaching techniques, strategies, and materials to meet the learning needs of students with reading difficulties K-12. Prerequisite: EDU 322, 467 or equivalent.

**492 Workshop in Education (Variable)**

Special interest areas developed from student needs and community requests. Number of credits depends on individual workshop requirements.



**493 Child Study Skills for Primary Education (3)**

Includes guidelines and techniques to observe, record, diagnose, analyze and prescribe for the personal and social, motor language and perceptual-cognitive development of primary children in a variety of child care and educational settings. Includes working with families and parents. Field experiences required.

**499 Directed Student Teaching (9)**

Student teaching is coordinated with the supervision of a fully certified teacher and a University supervisor. Prerequisite: Senior status, 2.5 GPA, C or better in all required professional Education courses, participation in all the sections of the FTCE, and a satisfactory score on the CLAST.

**Course Descriptions — Computer Education Prefix: CED**

**205 Computer Programming for Educators**

An introductory programming course emphasizing prevalent languages. Languages such as Logo, Pilot and BASIC will be taught in a laboratory setting with extensive opportunity for hands-on experience. Emphasis is on educational applications.

**300 Special Topics (3)**

Content to be determined by the department to fill specified needs or interests.

**305 Teaching Computer Concepts and Skills**

An introduction to the special problems and strategies for teaching computer languages and literacy concepts and skills to individuals of various backgrounds. Varying curriculums, materials and teaching methods will be investigated for appropriate computer application.

**325 Creating and Implementing Courseware**

Covers various aspects of effective creation, modification and use of CAI courseware. Enables educators to function in a CAI environment within a specific school setting.

**336 Educational Software/Hardware Search and Evaluation**

Comprehensive study of a variety of microcomputer hardware and applications software. Special emphasis given to educational applications and effective evaluation instruments and techniques.

**350 Computers and School Management (3)**

Covers all aspects of electronic administrative management in an educational setting. Special emphasis will be given to the utilization of software which improves efficiency in areas such as scheduling, finances, and record keeping.

**355 Computers for Classroom Management (3)**

An introductory course emphasizing educational procedures for managing student instruction. Electronic record keeping, testing, prescription, and diagnosis will be investigated.

**360 Computer Applications for Instructional Disciplines (3)**

An introductory course which emphasizes the effective use of computers in various disciplines. The student will explore the role of the computer as a supplementary instructional tool in his or her own discipline.

**400 Computer Literacy for Teachers (3)**

Entry level course which provides a conceptual and descriptive introduction to the structure and function of computers. Applications of computers in education as well as other settings are illustrated and demonstrated.

**405 Introduction to Computer Education (3)**

Comprehensive introduction to the broad role of computers in education. The computer is examined both as a subject of instruction as well as a tool for the professional educator.

**410 Operating Microcomputers in the Classroom (3)**

Entry level course which prepares educators to use computers to implement utility software applications and selected software such as word processors, data base managers and courseware generators in the K-12 classroom.

**414 Computer Programming in Logo (3)**

Introductory course in programming in the Logo language taught in a laboratory setting with extensive opportunity for hands-on experience. Emphasis is on educational applications and preparation to teach Logo, particularly at the elementary school level.

**415 Microcomputing in the Curriculum (3)**

Strategies and methods for intergrating microcomputing within the elementary curriculum. This entry level course seeks to prepare teachers for dealing with microcomputers in the classroom. Extensive hands-on experience with powerful microcomputers, teachers will have opportunities to operate educational programs on the microcomputer to learn programming skills in the BASIC and PILOT languages and to explore the full range of microcomputer applications suitable for classroom use.

**420 Teaching Computer Literacy (3)**

Cognitive and functional computer literacy are being taught increasingly at all levels of schooling. This course includes an investigation of the major issues involved and prepares teachers to plan and carry out such computer education.

**421 Computer Programming in BASIC (3)**

Introductory course in programming in the BASIC language taught in a laboratory setting with extensive opportunity for hands-on experience. Emphasis is on educational applications and preparation to teach BASIC.

**445 Software Tools for Educators (3)**

A variety of software will be investigated with respect to their benefits in developing materials and methods for the presentation and management of instruction.

**450 Computer Applications for Instruction (3)**

An in-depth investigation into the applications and use of computer-assisted instruction and computer-managed instruction in the classroom.

**460 Teaching Software Applications in the Classroom (3)**

Relative benefits of various applications software will be investigated with respect to their pedagogical value. Participants will be introduced to special problems and methods of teaching and applying applications software in a variety of content areas.

**475 Training and Supervising Computer Users (3)**

This course covers the technical supervision that is required of a manager of an automated office, and the training and supervision of employees in the computerized office.



# School of Nursing

Judith A. Balcerski, Ph.D., R.N., Dean  
Victoria L. Schoolcraft, R.N., Ph.D., Director,  
Alternative Nursing Options

## Undergraduate—Bachelor of Science in Nursing

The purpose of the nursing program is to offer students a baccalaureate education which will prepare them for professional nursing practice. The program, within a basic Judeo-Christian humanistic framework, aims to lay a foundation for safe nursing practice, the progression to positions that require beginning administrative skills without additional education, beginning skills in research, continued personal and professional growth, and graduate study in nursing. The program is approved by the Florida Board of Nursing and is accredited by the National League for Nursing.

The curriculum in the School of Nursing is process based on and flows from the belief that the practice of nursing is predicated on seven significant processes. These processes evolve from beliefs about man and his environment; Virginia Henderson's definition of nursing as a profession; and from the intellectual disciplines of natural and social sciences, psychology, education, administration, and the humanities. The seven processes which comprise the practice of nursing and upon which the undergraduate and graduate curriculums are based include: the scientific nursing process; the change process; the communication process; the teaching/learning process; the administrative process; the research process; and the process of professionalization.

The baccalaureate degree in nursing may be earned in any one of five distinct options: the Basic Option, the Registered Nurse Option, the Accelerated Option, the Two-Year Transfer Option, and the L.P.N. to B.S.N. Option. The Basic Option is designed for students who are not registered nurses and who do not have a bachelor's degree in any other major. This option takes three to four years to complete. The Registered Nurse Option is for registered nurses who have either a diploma or an associate degree in nursing and takes

two or three years to complete. A registered nurse with a bachelor's degree out of the field may be able to complete the program more rapidly. Some registered nurses may be eligible to enroll in graduate level courses in lieu of part of the RN to BSN curriculum. The Accelerated Option is planned for the person who is not a registered nurse and who has earned at least a bachelor degree in any field, and may be completed in one to two years. A Two-Year Transfer Option is available for transfer students with 41 or more credits applicable to the nursing program requirements. This option takes two years including the intervening summer to complete. An LPN to BSN Option allows qualified LPNs to test out of 12 credits in the nursing program to avoid unnecessary duplication of content. Students in all options complete similar programs and attain the same terminal objectives.

In addition to the degree programs, the School of Nursing is approved by the Florida Board of Nursing to provide non-credit continuing education offerings for registered and licensed practical nurses. (Provider #27U0081)

## **BASIC OPTION**

### **Admission Requirements**

In addition to general university admission requirements, the following criteria must be met by applicants to the Basic Nursing Option:

- (1) completion of a high school level course in biology and chemistry (with laboratories) with a minimum grade of C in each,
- (2) completion of Algebra II, with a minimum grade of C, and
- (3) achievement of minimum total score of 850 on the SAT or 18 on ACT.
- (4) Transfer students to the Basic Option must present a 2.50 cumulative grade point average.

### **Progression to Clinical Courses**

Admission to the School of Nursing does not guarantee progression to clinical nursing courses. The faculty of the School of Nursing reserves the right of retaining and progressing those students who, in its judgement, satisfy the requirements of scholarship, health and personal suitability.

The following are the criteria for progression to the first clinical nursing course, NUR 225 which is taken in the sophomore year:

- (1) completion of Human Anatomy, Microbiology, and Biochemistry (with labs) with at least a C in each course;
- (2) attainment of a 2.00 (C) average in courses taken in the natural and behavioral science block;
- (3) attainment of a 2.00 (C) cumulative grade point average in all coursework taken at Barry;
- (4) completion of 30 credits of coursework applicable to nursing;
- (5) submission of evidence of health status acceptable for the practice of nursing and the yearly submission of a report of an examination indicating good mental and physical health; and
- (6) submission of a formal letter indicating compatibility of personal goals with the goals of the School and the University.



The following are policies regarding continued progression in nursing.

- (1) Physiology (BIO 240) must be taken prior to NUR 238, Nursing Concepts II. A student who receives a D or an F in physiology may repeat physiology while enrolled in Nursing Concepts II only with permission of the nursing faculty.
- (2) Pharmacology (NUR 215) must be taken concurrently with NUR 238, Nursing Concepts II. Introduction to Computers (CIS 180) is prerequisite to Pharmacology.
- (3) Nutrition in Clinical Care (DIN 271) and Developmental Psychology (PSY 382) must be taken prior to Parent/Newborn Nursing (NUR 327).
- (4) Any student withdrawing from or earning a grade lower than a C in any clinical nursing course or NUR 215 must have written permission from the Student Affairs Committee to retake the course. The individual student's academic and advisee records will be evaluated by the nursing faculty. Depending upon this evaluation, the student may be allowed to repeat the nursing course or be refused permission to continue.
- (5) Only one lab/clinical nursing course may be repeated and then only with the permission of the nursing faculty.

### **REGISTERED NURSE (R.N.) OPTION**

Graduates of state-approved diploma and associate degree programs in nursing are eligible to apply for admission to the baccalaureate program in the Registered Nurse Option. The program followed by the R.N. students will be designed to be as flexible and responsive to individual student needs as possible within the constraints of curriculum, university and accreditation requirements, and quality educational theory. The length of the program for the R.N. student is dependent upon the amount of acceptable transfer credit, success in completion of CLEP, proficiency and NLN examinations, and part-time or full-time status. In most instances a minimum of two years should be anticipated for completion.

#### **Admission to the Registered Nurse Option requires:**

- (1) a cumulative G.P.A. of 2.5;
- (2) a current active license from the State of Florida, and professional liability insurance coverage; and
- (3) three recommendations, and an information and planning interview with an academic advisor for R.N. students.

#### **Alternatives to Earn Credit**

Requirements of the program are met through CLEP, NLN Mobility and Achievement Examinations or their equivalents, proficiency examinations, transfer, correspondence courses, or by enrolling in courses at Barry University. The student may also earn credit through the School of Adult and Continuing Education where courses are taught in a manner and in time blocks appropriate for the adult working student.

## Proficiency Examinations

One way in which the R.N. student may receive credit for a course at Barry University is by the proficiency exam. For each specified course there is a study sheet available with course expectations. The student may obtain a study sheet from the School of Nursing (or appropriate office for non-nursing courses) and then sit for the exam. Proficiency exams are available for the following:

- BIO 152 — Biochemistry
- BIO 220 — Human Anatomy
- BIO 240 — Physiology
- BIO 253 — Microbiology
- NUR 483 — Health Assessment

The examinations are taken for "CREDIT/NO CREDIT" and if a student achieves an acceptable score, "CREDIT" for the course will be given. If an acceptable score is not achieved, "NO CREDIT" will be given. This "NO CREDIT" will not go on a permanent record and will not affect the overall grade average. It does mean that the student must enroll in, and pass, the course. Proficiency exams may not be repeated. A fee of \$20 per credit (in place of tuition) must be paid to cover administrative costs.

## NLN Mobility Profile II/Achievement Tests

R.N. students earn 32 nursing credits through examination by sitting for the NLN Mobility Profile II and the NLN Achievement Test. The testing series is designed to evaluate previous learning and experience. It includes five content areas in four test booklets. Credit by NLN exam is awarded as follows:

- NLN Book I: Care of the Adult Client (8 credits) in lieu of  
NUR 238 Nursing Concepts II
- NLN Book II: Care of the Client During Childbearing and Care of the Child (12 credits) in lieu of  
NUR 327 Parent/Newborn Nursing  
NUR 377 Child/Adolescent Nursing
- NLN Book III: Care of the Client with a Mental Disorder (6 credits) in lieu of  
NUR 388 Adult/Elderly Nursing: Psychiatric-Mental Health
- NLN Achievement Test: Nursing Care of Adults in Special Care Units (6 credits) in lieu of  
NUR 378 Adult/Elderly Nursing: Biophysical Crisis

The Profile and Achievement Tests are offered four times a year, and R.N. students may take them in any order they choose. It is advisable to begin testing as early in the program as possible. The tests may be repeated once; if a student fails any one of the NLN exams after the second sitting, he or she will be asked to enroll in all or part of the corresponding course.



### **Equivalent Credit Alternatives**

Qualified R.N. students may be eligible to receive some credit in place of taking related NLN tests. These alternatives include: ACT/PEP nursing exams; national certification in an area of clinical nursing practice; and portfolio credit. Details are available from the Director of Alternative Nursing Options.

### **Sequence for Entering Required Nursing Courses**

The following criteria must be met *before* an R.N. student is eligible to take the first nursing course:

- completion of all four sciences, with a minimum “C” grade in each, or proficiency in each with “Credit”;
- completion of a minimum of 6 semester hours at Barry University;
- successful completion of NLN Mobility Profile II and NLN Achievement test, or their equivalents.

### **R.N. Progression**

R.N. students in the R.N.-B.S.N. Option must maintain at least 2.0 GPA and must earn at least a “C” in each nursing course. In order to progress in the nursing courses, the student must repeat any nursing course in which less than a “C” was earned. The student may not enroll in other nursing courses until receiving a grade of “C” or better in the repeated course.

### **R.N. to M.S.N. Alternative**

R.N. students may take a maximum of 12 credits in graduate nursing courses in lieu of some of the R.N. to B.S.N. courses. To qualify, the student must meet all other criteria for admission to and progression through the R.N. to B.S.N. Option and must have a GPA of at least 3.0.

R.N. students in the R.N. to M.S.N. Alternative must maintain at least a 3.0 GPA and must earn at least a “B” in R.N.-B.S.N. and M.S.N. courses. If a student receives less than a “B” in a course, the student will no longer be eligible to proceed in the R.N. to M.S.N. Option. The above policy applying to R.N.-B.S.N. students’ progression will then apply.

### **ACCELERATED B.S.N. OPTION**

Admission to the Accelerated B.S.N. Option requires:

- (1) a bachelor degree from an accredited college or university,
- (2) a minimum cumulative G.P.A. of 2.50,
- (3) at least a C in the four required sciences,
- (4) a written statement of intent,
- (5) three recommendations, and
- (6) completion of 40 credits of prerequisite courses.
- (7) An interview may be required.

Prerequisite courses may be earned through CLEP, transfer, correspondence, or by challenging or enrolling in courses at Barry University. All nursing

courses are taken full time at Barry during three 15-week terms beginning in January and ending in December.

Since time in class or clinical approximates 40 hours per week, it is not usually possible to work during the year of enrollment in nursing courses. Preparation should be made ahead of time for financing that year. Some financial aid and loans are available and some Florida residents are eligible for a tuition reduction grant. The cost for tuition and fees for the 53 credits in nursing equals that for three full-time semesters. Books, uniforms, and other requirements will be additional.

### **TWO-YEAR TRANSFER OPTION**

Admission to the Transfer Option requires:

- (1) completion of anatomy, microbiology and bio-chemistry without repetitions or withdrawals;
- (2) completion of a minimum of 41 credits in coursework applicable to nursing program requirements; and
- (3) 3.00 cumulative college grade point average.

Progression into the summer portion of the option requires:

- (1) at least a B in NUR 215, 225, 231, & 238;
- (2) at least a C in each liberal arts course taken with the 200 level nursing courses; and
- (3) a 3.00 cumulative college grade point average.

For accurate advising students planning to enroll in the Two-Year Transfer Option should meet with the dean of the School of Nursing while taking the science and liberal arts requirements. Early advisement will prevent unnecessary delay in admission since this program does not require completion of the Associate degree.

### **LPN to BSN OPTION**

Admission to this option requires:

- (1) 2.5 or equivalent average in LPN and college courses;
- (2) current active Florida LPN license or proof of eligibility to sit for the NCLEX-PN; and
- (3) an interview with an academic advisor may be required.

This program is similar to the Basic and Two-Year Transfer Options but allows the qualified LPN to test out of nursing coursework. These courses include:

	Credits
NUR 215 Pharmacology	2
NUR 225 Basic Nursing Skills	3
NUR 231 Nursing Concepts I	4
DIN 271 Nutrition in Clinical Care	3
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All other coursework remains the same as the Basic Option with the addition of NUR 203 LPN Role Transition. The course sequence, part-time or full-time status, and method to earn credit for other courses will be decided between the student and his/her advisor.

### **GRADUATION**

The student must meet all university and nursing program requirements. In compliance with the university requirement for a senior comprehensive examination, the senior students in the Basic, Accelerated, Transfer, and L.P.N. Options will be required to pass the secured version of AssessTest, a major, comprehensive examination. Upon completion of all nursing program requirements, the graduate is eligible to write the National Council Licensure Examination (NCLEX-RN). As part of the licensure application process, arrest and court records of final adjudication for any offense other than a minor traffic violation must be submitted to the Board of Nursing for review. The application and records must be filed *at least 90 days before the examination date* since the student may be required to appear before the Board.

### **TRANSPORTATION**

Beginning in the sophomore year, students are responsible for providing their own transportation to and from all health agencies and other selected experiences such as home visits to patients, parents, and families. Car pooling is acceptable except during the senior community health experience.

### **NURSING PROGRAM REQUIREMENTS: ALL OPTIONS**

#### **Distribution and Corequisite Courses: Basic, Two-Year Transfer, and L.P.N. Options (68 cr.)**

ENG 111/112 English Composition & Research  
SPE 101 Fundamentals of Speech  
BIO 220 Introductory Human Anatomy (with lab)  
BIO 240 Introduction to Human Physiology (with lab)  
BIO 253 Introductory Microbiology (with lab)  
CHE 152 Introduction to Organic and Biological Chemistry (with lab)  
MAT 152 Elementary Probability & Statistics  
PSY 281 Introduction to Psychology  
PSY 382 Developmental Psychology  
SOC Any Sociology  
ANT Any Anthropology  
PHI 152 Methods of Reasoning  
PHI 353 Bio-Medical Ethics  
THE Any Theology course  
HIS/POS/ECO Any History, Political Science or Economics course  
HUM/ARTS Three courses (9 cr.)  
DIN 271 Nutrition in Clinical Care  
CIS 180 Introduction to Computer Science

**Prerequisite Courses: Accelerated Option (43 cr.)**

- BIO 220 Introductory Human Anatomy (with lab)
- BIO 240 Introduction to Human Physiology (with lab)
- BIO 253 Introductory Microbiology (with lab)
- CHE 152 Introduction to Organic and Biological Chemistry (with lab)
- MAT 152 Elementary Probability & Statistics
- PSY 281 Introduction to Psychology
- PSY 382 Developmental Psychology
- PSY/SOC/ANT Two courses in any of these areas
- DIN 271 Nutrition in Clinical Care
- PHI/THE Any Philosophy or Theology course
- NUR 215 Pharmacology
- PHI 353 Bio-Medical Ethics (may be taken before or during the 12 months of nursing coursework)

**Nursing Major: Basic, Two-Year Transfer, L.P.N., and Accelerated Options (55 cr.)**

- NUR 215 Pharmacology (Prerequisite for Accelerated)
- NUR 225 Basic Nursing Skills
- NUR 231 Nursing Concepts I
- NUR 238 Nursing Concepts II
- NUR 327 Parent/Newborn Nursing
- NUR 377 Child/Adolescent Nursing
- NUR 378 Adult/Elderly Nursing: Biophysical Crises
- NUR 388 Adult/Elderly Nursing: Psychiatric-Mental Health Nursing
- NUR 401 Research in Nursing
- NUR 481 Community Health Nursing
- NUR 496 Nursing Management

**Distribution & Prerequisite Courses: RN to BSN and RN to MSN Options (61 cr.)****Credit**

Alternatives	Descriptions
T-P	Human Anatomy + Lab
T-P	Microbiology + Lab
T-P	Biochemistry + Lab
T-P	Physiology + Lab
T-I	Statistics
T-C-I	English Composition (6 cr.)
T	Speech
T-C-I	Social/Behavioral Science electives (9 cr.)
T-C-I	Humanities/Arts electives (9 cr.)
T-I	Philosophy elective
T-I	Theology elective
T	Bio-Medical Ethics
T-I	Computer elective
T-C-I	Open Elective



P = Proficiency Exams  
C = CLEP Exams  
I = Independent Study by Correspondence  
T = Transfer Credit

**Nursing Major: RN to BSN Option (27 cr.)**

NUR 303 Professional Processes  
NUR 307 Processes of Interpersonal Communication  
NUR 401 Research in Nursing  
NUR 448 Group/Organizational Dynamics  
NUR 480 Professional Role Seminar  
NUR 481 Community Health Nursing  
NUR 483 Health Assessment  
NUR 496 Nursing Management

**Nursing Major: RN to MSN Option (29 cr.)**

NUR 448 Group/Organizational Dynamics  
NUR 481 Community Health Nursing  
NUR 483 Health Assessment  
NUR 496 Nursing Management  
NUR 600 Nursing Theory  
NUR 602 Research in Nursing  
NUR 606 Dynamics of Interpersonal Relationships  
NUR 608 Teaching/Learning Process  
or  
NUR 610 Administration/Management Process  
NUR 690 Role Preparation in Nursing

**Course Descriptions—Nursing Prefix: NUR**

**LEVEL II: DEVELOPMENTAL PROCESSES IN HEALTH AND ILLNESS**

**203 LPN Role Transition (2)**

Exploration of change in role from practical to professional nurse. Includes an introduction to the philosophy, concepts, and theories which form the conceptual framework.

**215 Pharmacology (2)**

A survey of the principles of drug therapy which includes an introduction to the classification and characteristics of drugs. Prerequisites NUR 231 and CIS 180.

**225 Basic Nursing Skills (3)**

Introduction to the nursing process and other integrating strands in the curriculum. Includes scientific principles and practices regarding basic nursing skills to be used throughout the curriculum. Focus is on the individual and incorporates a laboratory experience. Prerequisite: admission to clinical nursing courses. (\$47 fee)

**231 Nursing Concepts I (4)**

Introduction to the systematic use of the nursing process in selected clinical settings. Focus on the individual with major emphasis on alterations in fluid/electrolyte and acid/base status, blood dyscrasias, perioperative care, comfort/sleep needs, nutrition and elimination needs, mobility needs; and needs of the grieving, dying and elderly; includes applicable health assessment techniques. Practical laboratory experience is included; Clinical experience is in the hospital setting and extended care facilities. Prerequisite: NUR 225. (\$25 fee)

**238 Nursing Concepts II (8)**

Focus on the individual with psychosocial/pathophysiological alterations in sensory, genitourinary, musculoskeletal, peripheral vascular, digestive, neurological, metabolic, cardiovascular, respiratory and cellular functioning; includes applicable health assessment techniques. Practical laboratory experience is included. Clinical experience is in the hospital setting. Prerequisites: NUR 215, NUR 231, BIO 240. (\$45 fee)

**LEVEL III: NURSING CARE OF DEVELOPING MAN****300 Special Topics (1-3)**

Content to be determined each semester by the School as requested by faculty and/or students to fill specified needs or interest.

**303 Professional Processes (4) (RN to BSN only)**

Examination of the health care delivery system based on the 7 processes inherent within the curriculum: scientific nursing process, change process, communication process, teaching/learning process, administration process, research process, and the process of professionalism. Prerequisite: Degree seeking status. Corequisite: NUR 307.

**307 Processes of Interpersonal Communication (2) (RN to BSN only)**

Examination of psychological factors operating within self and others which influence communication effectiveness. Corequisite: NUR 303.

**327 Parent/Newborn Nursing (6)**

Family centered approach to the role of nursing during the maternity cycle and neonatal period. Focus is on health assessment, stress and adaptation; the application of growth and development concepts; and on psychological and cultural factors which affect behavior during child bearing years. Experiences are provided in ambulatory and acute care settings. Prerequisites: NUR 215, NUR 238, DIN 271. (\$15 fee)

**377 Child/Adolescent Nursing (6)**

Family centered approach to the role of nursing during infancy, childhood and adolescence. Focus is on health assessment, stress and adaptation during illness and for hospitalization; the application of growth and development concepts; and psychosocial and cultural factors which affect behavior during the pediatric years. Experiences are provided in ambulatory, community and acute care settings. Prerequisite: NUR 327, PSY 382. (\$15 fee)

**378 Adult/Elderly Nursing: Biophysical Crises (6)**

Extension and refocus of previously acquired knowledge of pathophysiological alterations applied to adult and elderly population. Emphasis on clients experiencing multi-system problems. Clinical experience is in critical care facilities and includes comprehensive health assessments. Prerequisite: NUR 377. (\$25 fee)

**388 Adult/Elderly Nursing: Psychiatric-Mental Health**

Extension and refocus of previously acquired information of behavioral and psychodynamic concepts applied to clinical settings in the hospital and community. Emphasis on use of self and communications as therapeutic tools in effecting nurse-client relationships. Psychopathology explored in theory and clinical practice, to identify stressors that influence prevention, treatment and rehabilitation of psychiatric-mental health clients and their families with emphasis on the adult and elderly client. Mental health assessment assists in identification process. Prerequisite: NUR 377. (\$10 fee)

**LEVEL IV: NURSING CARE OF MAN IN SOCIETY****401 Research in Nursing (2)**

Introduction to principles and process of nursing practice research; study of problem identification and definition, study design, data collection techniques, interpretation and critique of research reports, and the development of abilities as an intelligent consumer of nursing research. Prerequisite: MAT 152.

**448 Group/Organizational Dynamics (2) (RN to BSN only)**

Examination of group dynamics with focus on decision-making and conflict management from the organizational perspective. Prerequisites: NUR 303.

**459 Independent Study (1-3)**

Opportunity for an in-depth investigation in an area of nursing of special interest to the student. Student is prime course designer assisted by a faculty member in the School of Nursing. Prerequisites: Senior status and permission of Dean.



**480 Professional Role Seminar (2)** (RN to BSN only)

Examination of transition to professional role; introduction to role theory; exploration of career paths and strategies for professional development and personal growth. Prerequisites: NUR 303.

**481 Community Health Nursing (6)**

Purpose is health promotion and illness prevention. Focus is synthesis and application of nursing skills and theory while caring for individuals, families and aggregates as an integral part of the community. Students study public health principles, and experience an in-depth relationship with client(s) over extended period of time, in variety of community settings to become familiar with the many roles of the community health nurse. Prerequisite: NUR 378 for Basic and Accelerated Options; for RN Option, NUR 303, 307, 483 and completion of all NLN exams. (\$15 fee)

**483 Health Assessment (3)**

An introduction to the concepts and skills of health assessment with focus on well adults and children. Prerequisites: BIO 220, BIO 240, BIO 253, CHE 152. (\$20 fee)

**487 Seminar in Nursing (2).**

Group discussion of selected topics for integration and application of major knowledge fields in nursing and related areas. Prerequisite: Senior Status.

**496 Nursing Management (6)**

Principles of management and concepts of leadership, creativity, decision making and change as they pertain to nursing functions in the clinical setting. Emphasis on the development of leadership skills through use of nursing process. The study of current and projected trends in nursing will serve as a basis for exploring the legal and professional responsibilities of the nurse to self, profession and society. Prerequisite: NUR 377, for Basic and Accelerated Options; for RN Option, NUR 303, 307, 483.

**DIN 271 Nutrition in Clinical Care (3)**

Essentials of optimum nutrition of health and disease; macronutrients and energy metabolism; vitamins and minerals; nutrition and diet for the patient. Prerequisite: CHE 152.

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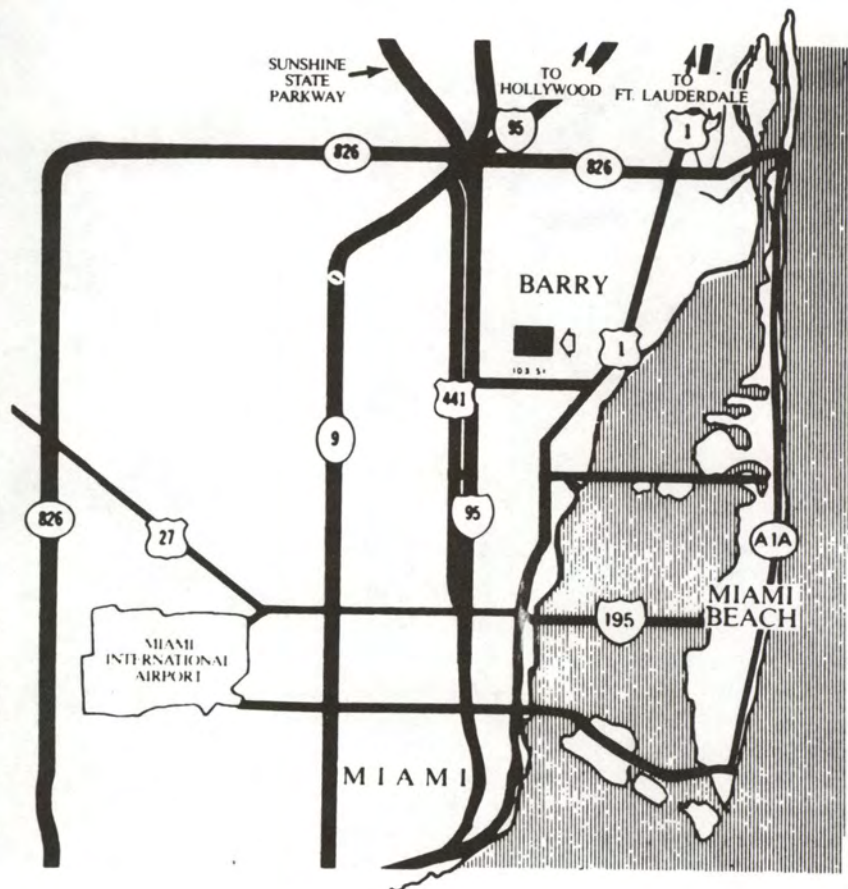
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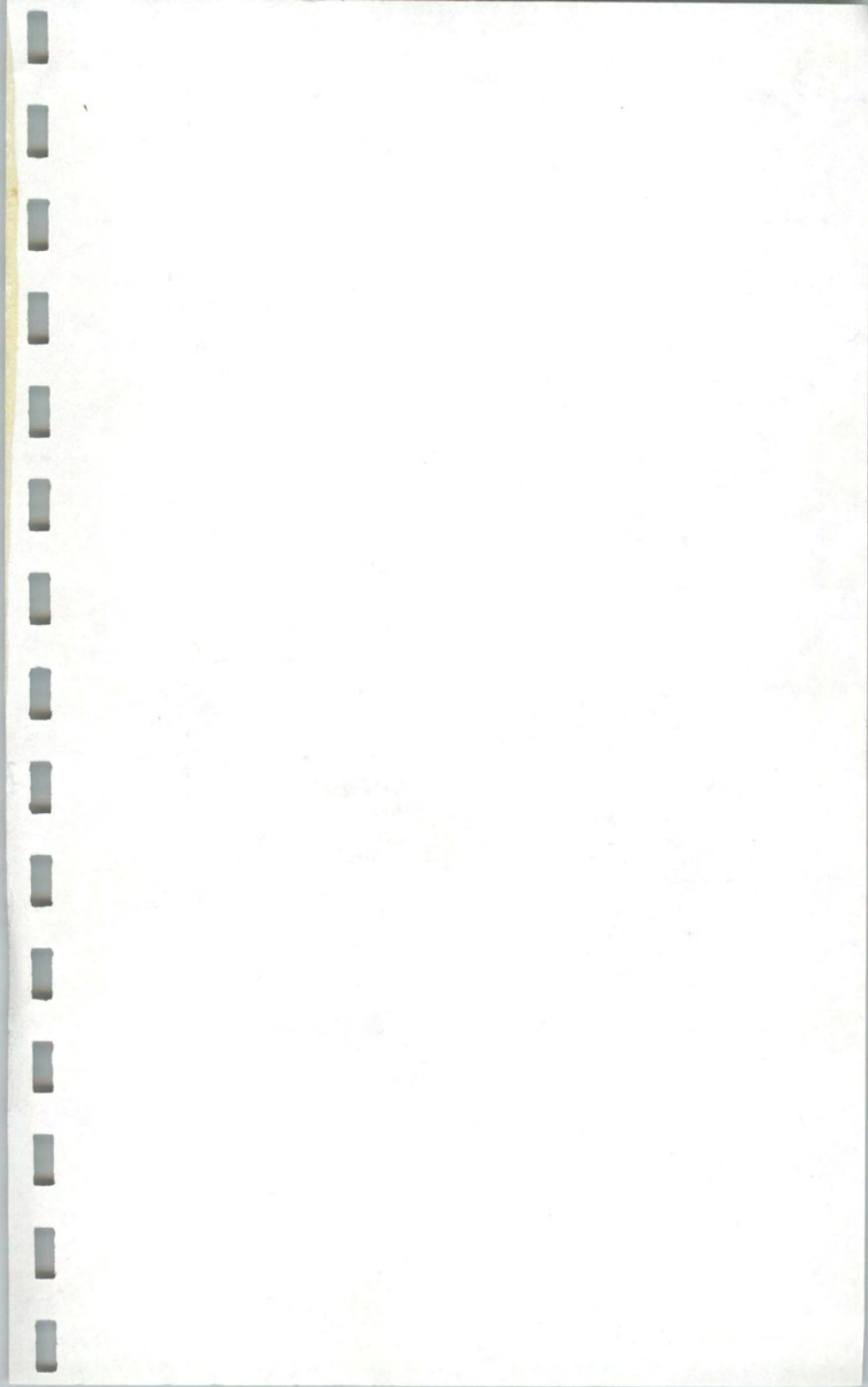
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