

LOYOLA COLLEGE IN MARYLAND
2002-2003

GRADUATE PROGRAMS



College of Arts and Sciences

The Joseph A. Sellinger, S.J.
School of Business and Management

4501 North Charles Street
Baltimore, Maryland 21210-2699
410-617-2000
<http://www.loyola.edu>

LOCATIONS

LOYOLA COLLEGE IN MARYLAND

BALTIMORE CAMPUS

4501 North Charles Street
Baltimore, MD 21210-2699
General: 410-617-2000; 800-221-9107
Admissions: 410-617-5020; 800-221-9107,x 5020

LOYOLA COLLEGE IN MARYLAND

THE GRADUATE CENTER – COLUMBIA CAMPUS

7135 Minstrel Way
Columbia, MD 21045-5245
General: 410-617-7600
Admissions: 410-617-5020; 800-221-9107, x5020

LOYOLA COLLEGE IN MARYLAND

THE GRADUATE CENTER – TIMONIUM CAMPUS

2034 Greenspring Drive
Timonium, MD 21093
General: 410-617-1500
Admissions: 410-617-5020; 800-221-9107, x5020
Business Programs: 410-617-5067
Montessori: 410-617-1650

ANNE ARUNDEL COUNTY

I-97 Business Park
1110 Benfield Boulevard, Suite F
Millersville, MD 21108-2540
General: 410-617-5095
Admissions: 410-617-5020; 800-221-9107, x5020

HARFORD COUNTY

John Carroll High School
703 Churchville Road
Bel Air, MD 21014-3499
General: 410-617-5095
Admissions: 410-617-5020; 800-221-9107, x5020

CECIL COUNTY

Booth Street Center
201 Booth Street
Elkton, MD 21921-5684
General: 410-617-5095
Admissions: 410-617-5020; 800-221-9107, x5020

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IMPORTANT

The provisions of this publication are not to be regarded as a contract between the student and Loyola College. The College reserves the right to change courses, schedules, calendars, and any other provisions or requirements when such action will serve the interest of the College or its students.

Students are responsible for acquainting themselves with the regulations pertinent to their status. The College reserves the right to modify its regulations in accordance with accepted academic standards and to require observance of the modifications.

Loyola College does not discriminate on the basis of race, sex, color, national and ethnic origin, age, religion, or disability in the administration of any of its educational programs and activities or with respect to admission and employment. The Designated Compliance Officer to ensure compliance with Title IX of the Education Amendment of 1972 is Toi Y. Carter, Assistant Vice-President for Human Resources, Jenkins Hall, Room 220, 410-617-2699. The Coordinator to ensure compliance with Section 504 of the Rehabilitation Act of 1973 (P.L. 93-112) as amended (P.L. 93-516) is Toi Y. Carter, Assistant Vice-President for Human Resources, Jenkins Hall, Room 220, 410-617-2699.

Loyola College is authorized under U.S. Federal Law to enroll nonimmigrant, alien students.

ACCREDITED BY:

AACSB International – The Association to Advance Collegiate Schools of Business
American Association of Pastoral Counselors
American Psychological Association
American Speech-Language-Hearing Association
Commission on Higher Education of the Middle States Association of Colleges and Schools, 3624 Market Street, Philadelphia, PA 19104; 215-662-5606
Council for Accreditation of Counseling and Related Educational Programs

APPROVED BY:

Association Montessori Internationale (AMI)
Council on Exceptional Children

The Regents of the University of the State of New York
The Maryland State Department of Education
Approved for Veteran's Education

MEMBER OF:

Adult Education Association of U.S.A.
AACSB International – The Association to Advance Collegiate Schools of Business
American Association of Colleges for Teacher Education
American Association for Higher Education
American Speech-Language-Hearing Association
Association for American Colleges
Association for Continuing Higher Education
Association of Graduate Liberal Studies Programs
Association of Jesuit Colleges and Universities
Baltimore County Chamber of Commerce
Council for Advancement and Support of Education
Council of Applied Master's Programs in Psychology
Council of Graduate Programs in Communication Sciences and Disorders
Greater Baltimore Committee
Howard County Chamber of Commerce
Independent College Fund of Maryland
Maryland Association for Higher Education
Maryland Chamber of Commerce
Maryland Independent College and University Association
Middle Atlantic Association of Colleges and Business Administration
Middle States Association of Colleges and Schools
National Association of Independent Colleges and Universities
National Catholic Education Association
National Collegiate Athletic Association
National Council of Schools and Programs of Professional Psychology
National University of Continuing Education Association

Documents granting accreditation or approval to Loyola College are available for review in the Records Office during regular business hours.

THE COLLEGE

HISTORY

Since its founding, Loyola College has challenged itself to remain grounded in a centuries-old tradition of Jesuit, liberal arts education, while continually seeking to adapt to changing circumstance. In this balance between values and the desire to serve the greater community, the College has managed to create itself anew, time and again.

Loyola College in Maryland rose from humble beginnings in 1852. The first college in the United States to bear the name of Saint Ignatius Loyola, the College was initially headquartered in a house on Holliday Street in downtown Baltimore—a site marked by a commemorative plaque in what is now Baltimore's War Memorial Plaza. Due to its increasing enrollment, the College moved in 1855 to a new facility at Calvert and Madison Streets—now the home of Center Stage, Baltimore's intimate theatre for professional drama groups and the St. Ignatius Loyola Academy, a Catholic high school. The College moved to its present home on the Baltimore Campus in 1921.

Today, Loyola College is a Catholic comprehensive university with approximately 6,200 undergraduate and graduate students representing two-thirds of the United States and numerous foreign countries. The graduate programs now comprise half of the student population at Loyola. The programs, most of which are practitioner-oriented and designed for professionals seeking a greater level of expertise and satisfaction in their careers, cross a broad spectrum.

Loyola's Joseph A. Sellinger, S.J., School of Business and Management offers the traditional Master of Business Administration (M.B.A.) and a Master of Science in Finance (M.S.F.), as well as the MBA Fellows and Executive MBA programs, tailored for professionals at different levels in their careers. The Sellinger School's 1988 accreditation by the AACSB International – The Association to Advance Collegiate Schools of Business reinforced its commitment to providing the best education to Baltimore's business leaders. The traditional MBA program began in 1967 and it, along with the Executive MBA program (established in 1973 and one of the first of its kind in the United States), has

been a means of providing business education to the Baltimore region for several decades.

The graduate program in Psychology was established in 1968 to help prepare students to complete doctoral training in Clinical or Counseling Psychology through a Master of Arts (M.A.) program. Three years later, the College added a Master of Science (M.S.) program, preparing students to work under the supervision of a licensed psychologist or to pursue doctoral training. The graduate Psychology program, which trains students in both theory and skill development and offers field experiences at numerous sites throughout Baltimore, was expanded in 1996 to include a Doctor of Psychology in Clinical Psychology (Psy.D.). The program earned accreditation from the American Psychological Association in 2000.

Loyola's other doctoral degree is offered in Pastoral Counseling, the only program of its kind in the United States that integrates religious philosophy with practical behavioral science. Pastoral Counseling was initially introduced in 1976 as a Master of Science within the Psychology Department. Due to the program's unique offerings and subsequent growth, an independent Pastoral Counseling Department was established in 1984. The program was expanded in 1990 to include a Doctor of Philosophy (Ph.D.) in Pastoral Counseling, and in 1997 a Master of Arts in Spiritual and Pastoral Care was introduced. Today, the various degree programs within the Pastoral Counseling Department attract students from across the country and around the world.

Since its inception in 1971, the Speech Pathology Department has provided practitioner-oriented classroom study and clinical practice to professionals throughout the country. Accredited by the Educational Standards Board of the American Speech-Language-Hearing Association, the two-year, full-time Speech Pathology program features clinical observation and practicum opportunities through the College's clinics on its Baltimore, Columbia, and Timonium Campuses and an extensive network of externship sites.

In 1977, Loyola recognized the need within the engineering community for advanced education and developed the graduate program for professionals already working in computer-related fields who need hands-on, rather than theory-based, experience for the rapidly changing technology industry. The degree program leading to a Master of Engineering Science (M.E.S.) in Computer Engineering, Computer Science, or Electrical Engineering is currently being reconfigured. The College is no longer accepting students into the computer engineering or electrical engineering tracks. Students currently enrolled in these tracks will be given the opportunity to complete their degrees. The computer science track is undergoing review and will emerge under a new degree name during this academic year. Students may elect to transfer to the new degree program when it becomes available.

The Engineering Science Department offers computer science courses at the Timonium Campus, and all three programs are taught at the Columbia Campus because of their convenience to a vast number of engineering and technological firms headquartered in those areas.

Where other graduate departments focus on the practitioner-oriented approach to learning, the Education Department's program blends theory with practice in its mission to train tomorrow's educators. The first of the graduate programs to be established at Loyola, it offers the Master of Education (M.Ed.) and the Master of Arts in Education (M.A.). Classes are offered at the Baltimore, Columbia, and Timonium Campuses as well as other sites throughout the state. The educating of teachers, specialists, counselors, and administrators continues to be the primary focus of graduate studies in education at Loyola College.

Loyola College adheres to its Jesuit, liberal arts tradition through its Modern Studies program. Designed for those who require greater expertise in their field or desire a greater breadth of knowledge, the program blends the traditional with the innovative. The usual graduate school emphasis on research is replaced with an emphasis on reading and study, with course topics ranging from business and urban planning to sociology, psychology, literature, and creative writing. In short, the Modern Studies program—which awards a Master of Modern Studies (M.M.S.)—exists for all

who believe that the mind constantly needs to be challenged and enriched.

A loyal alumni population, strong corporate and civic support, a diverse body of graduate programs, and the dedication and expertise of the faculty have all helped make Loyola the institution it is today and assure that the education received at the College will remain relevant in an ever-changing world.

DIVERSITY STATEMENT

Loyola College values the benefits in diversity and is committed to creating a community which recognizes the inherent value and dignity of each person. As a community, the College actively promotes an awareness of and sensitivity toward differences of race, gender, ethnicity, national origin, culture, sexual orientation, religion, age, and disabilities among students, faculty, administrators, and staff.

CAMPUSES AND BUILDINGS

BALTIMORE CAMPUS

Located in a residential section of northern Baltimore, the Baltimore Campus is noted for its mix of beautifully landscaped and generously wooded areas. Hospitable to students, faculty and staff, the Campus is a beautiful, welcome respite from the workaday world.

The **Alumni Memorial Chapel**, dedicated to Loyola alumni who served in World Wars I and II, was constructed in 1952 and renovated in 1993. The Chapel is the physical and spiritual center of the campus. Sixteen large stained-glass windows along the Chapel's nave depict major Jesuit saints, while Catholic history is illustrated in the stained-glass windows at the four terminals of the nave and the transept. Seven smaller windows depict historic shrines from around the world dedicated to Mary. Above the front facade of the Chapel is the statue of Our Lady of Evergreen, donated in 1952 by Fulton Oursler, Senior Editor of *Reader's Digest* and author of *The Greatest Story Ever Told*.

Located beneath the Chapel, **Cohn Hall** is characterized by stone, brick, and glass walls; bright colors; ceramic tile floors, and plenty of natural light. Cohn Hall houses Campus Ministry and the Center for Values and Service.

Until March 1992, the large Tudor-style mansion at the center of the quadrangle served as the home of Loyola's Jesuit community. Now called the **Francis Xavier Knott, S.J., Humanities Building**, the building underwent a major expansion and renovation in 1993 to fulfill the College's goal of centralizing academic and administrative offices. The Humanities Building houses offices for Admissions, Alumni Relations, Development, Financial Aid, Public Relations, and Publications; faculty offices for the Departments of Classics, Communication, English, History, Philosophy, and Theology; a high-technology Honors seminar room; lecture-style classrooms; conference rooms; and a dining area.

The mansion was initially built by the prominent Garrett family in 1895 as a wedding gift to their son, who died while on an extended trip to Europe before the building was completed. Later, the building served as a rehabilitation center for blind veterans of World War I before Loyola acquired it in 1921.

Beatty Hall, originally named the Jenkins Science Building, was completed in 1922 and renovated in 1974, 1980, and 1995. The structure, built with locally quarried stone, houses the Counseling Center as well as the Departments of Education, Political Science, Psychology, and Sociology. After its 1974 renovation, the building was renamed in honor of Rev. Vincent F. Beatty, S.J., who served as College president from 1955–1964.

Jenkins Hall opened just before Thanksgiving in 1929, and its highlight was the library on its top floor. Until its closure for renovation in January 2000, it served as the center for The Joseph A. Sellinger, S.J., School of Business and Management. The newly refurbished facility now houses administrative offices and The Study, a spacious student study area on the third floor. The Study is home to the Writing Center which features tutoring spaces, computer stations, and informal seating areas for quiet study.

Xavier Hall is located between Beatty and Jenkins Halls. Originally a small chapel in Mount Washington, the structure was donated by the pastor of the Shrine of the Sacred Heart. In the fall of 1924, the chapel was systematically disassembled, trucked to the Baltimore Campus, and reconstructed during the remainder of the year. It formally opened as St. Francis Xavier Chapel on February 2, 1925.

After the Alumni Memorial Chapel opened in 1952, Xavier Hall was converted into a student lounge until the 1970s when it was renovated into offices to accommodate the expanding needs of the business school. Now that the Sellinger School has a new home, Xavier Hall is being renovated to house the offices of Human Resources.

In 1965, Loyola expanded its classroom facilities with the addition of the five-story building, **Maryland Hall**. Named to acknowledge a 1962 grant from the state government, the structure initially served as an engineering and science building. Maryland Hall now houses the Center for Academic Services and Support, Department of Modern Languages and Literatures, Language Learning Center, Records Office, Student Administrative Services, classrooms, a distance learning classroom, and administrative offices. A major renovation, completed in 2002, increased academic space; added high-technology classrooms; created a new, state-of-the-art language resource center; and made the building fully compliant with the Americans with Disabilities Act.

The **Joseph A. Sellinger, S.J., School of Business and Management**, a 50,000 square-foot classroom and office building which opened in January 2000, is adjacent to Maryland Hall and anchors the College's academic quadrangle. The facility, which features a five-story atrium, houses ten classrooms, five seminar rooms, four conference rooms, faculty and the dean's offices, an information center, and a student lounge.

Donnelly Science Center was completed in 1978, and its contemporary architecture—two five-story wings joined by a glass-enclosed, diagonal centerpiece—serves as one formal entrance to the College. Its construction enabled the College to expand and upgrade its science facilities to include 25 laboratories, three workshops, and a number of faculty offices. The building also houses the Departments of Biology, Chemistry, Computer Science, Engineering Science, and their associated teaching/research labs. An expansion has added new state-of-the-art laboratories, classrooms, and faculty offices to the facility, reflecting the College's commitment to science instruction and research.

Knott Hall, completed in 1989, adjoins the Donnelly Science Center. It houses the Departments of Physics and Mathematical Sciences; Technology Services; lecture-style classrooms; two high-technology lecture halls; terminal rooms; the computer center; five high-technology classrooms; and three computer labs. The USF&G Pedestrian Bridge links the east (academic) side of the campus with the west (residential) section and provides an upper-level entrance to the building.

The **DeChiaro College Center** is a long, rectangular five-story building which opened in 1985. It houses the Julio Fine Arts Wing containing faculty offices for the Department of Fine Arts; a rehearsal room; music practice rooms; art gallery; a high-technology classroom as well as studio classrooms for drama, art, and music; and a fully-equipped photography center. The wing also contains the McManus Theater which has a seating capacity of 300.

The Center also houses the Career Development and Placement Center as well as Reitz Arena. The Arena contains a gymnasium with three basketball courts and a seating capacity of 3,000. The facilities also include a weight room, training rooms, locker rooms, a VIP lounge, and some Athletics offices.

The recently renovated **Andrew White Student Center** is named for the Rev. Andrew White, S.J., who was part of a small group of English Catholics who helped found the State of Maryland when the first expedition landed in 1634. Along with an expanded food court, dining, and lounge areas, the remodeled Center—a popular hub on the Baltimore Campus—features an expanded bookstore, a lobby, new office and program space, a reading room, a post office, and student mailboxes.

Ignatius House is home to the College's Jesuit community. Formerly Millbrook House, the three-story stone mansion was built in the 1920s and acquired by the College in 1957. Expanded, renovated, and renamed in 1991, it now contains a small chapel and Jesuit living quarters.

The **Loyola/Notre Dame Library**, located midway between Loyola and the College of Notre Dame of Maryland, opened in 1973. The library, a joint venture of the two institutions, is unique in being governed by a special corporation established by both but distinct from either college. The striking,

four-story building is situated at a point where both campuses meet, on the banks of a small stream which was dammed to form a reflecting pool.

The library has a shelf capacity of over 300,000 books and boasts a rare collection that includes the first editions of the works of Henry James, Gerard Manly Hopkins, and the bound, revised proofs of Evelyn Waugh's *Brideshead Revisited*. In addition, the library's automated information system, "Oracle," is part of the nationwide CARL system which provides a link to other university libraries within the United States and the British Lending Library. CARL also provides access to UnCover, a comprehensive guide to the table of contents of over 12,000 journals. The Oracle online catalogue is available via terminals within the library, the campus network (www.loyola.edu/library), or any computer with a modem (dial-in access, 410-433-6744). Internet connection is also available, providing additional access to on-line databases and public access catalogues. (Also see Library section under Student Life and Services.)

The **Service Building**, located on the east side of campus, houses the Physical Plant and Campus Police. The **John Early House**, situated opposite, houses the Military Science Department.

In Spring 1998, Loyola acquired a 3.79-acre parcel and building at **5104 York Road**, a half-mile from the College's Baltimore Campus. The property provides additional parking facilities and houses a variety of administrative offices such as printing services, the post office sorting room, the motor pool, shuttle bus operations, and administrative offices for the Department of Public Safety.

Two years ago, Loyola acquired a building at **5000 York Road** to house a variety of administrative offices. Today, human resources, accounts payable, administrative systems development, administration and process design, financial services, word processing, and the College's archives are all located here.

The **Fitness and Aquatic Center** opened on Loyola's North Campus in Fall 2000. The 115,000 square-foot facility features basketball, volleyball, and squash courts; a pool; running tracks; an indoor climbing wall; a 6,000 square-foot fitness center; and smaller activity rooms and offices.

Cardinal John Henry Newman Towers houses faculty offices for the Department of Speech-Language Pathology/Audiology; the Margaret A. McManus-Moag Speech, Language, and Hearing Clinic; administrative offices; and residence halls. Newman Towers also boasts Primo's, an innovative, market-style dining facility that provides students with an upscale food court, deli, bakery, and convenience store all in one location.

THE GRADUATE CENTER – COLUMBIA CAMPUS

Located in Howard County and convenient to Route 32 and I-95, the Columbia Campus is home to full-time graduate programs in pastoral counseling and speech-language pathology/audiology. Evening programs include a full range of graduate courses in business and engineering science as well as offerings in education and modern studies. In addition, the Columbia Speech and Language Center offers clinical services to the community while providing supervised practicum for graduate students in the speech-language pathology/audiology program.

The Campus offers modern classrooms with executive-style seating for 30 to 40 students, six technology classrooms, a distance learning facility, and an engineering science wing with a computer classroom and electronics lab. Student services include a networked computer lab with after hours access; an engineering science project room; two student lounges, kitchen facilities, and vending machines; and a bookstore annex which is open during the first several weeks of each semester.

THE GRADUATE CENTER – TIMONIUM CAMPUS

Located just off I-83, the Timonium Campus provides classroom facilities and administrative office space for graduate programs in business, computer science, education, Montessori, and speech-language pathology/audiology. The Campus is also home to the Timonium Speech and Language Literacy Center.

This state-of-the-art facility offers spacious, high-technology classrooms with executive-style seating for 36 to 50 students; a computer science classroom; a distance learning facility; conference and

small group rooms; Montessori practice rooms; a counseling lab; a hands-on science classroom; and speech-language clinic facilities. Student services also include a large student lounge, kitchen facilities, and vending area; a computer lab with after hours access; and a bookstore annex, open during the first several weeks of each semester.

ANNE ARUNDEL CENTER

Located in Millersville, just off I-97 on Benfield Boulevard, the Anne Arundel Center provides two large technology classrooms to support graduate education courses. Each classroom includes comfortable seating for 30 students, and one classroom is equipped to support hands-on science instruction. A student lounge and vending machines are available.

SERVICES

ALANA SERVICES

The Department of ALANA Services offers services to enhance the educational experience for African-, Latino-/a-, Asian-, and Native-American students, as well as helping women and international students to have a successful experience at Loyola. The Department works with Admissions, academic departments, and Human Resources to assist in the recruitment of students, faculty, administrators, and staff who are African-, Asian-, Hispanic-, and Native-American. In addition, the Department sponsors research to evaluate the progress made in achieving an increasingly diverse student body.

CAREER DEVELOPMENT AND PLACEMENT CENTER

The services of the Center are available to all Loyola students, graduates, and alumni/ae. The staff maintains a resource library, a schedule of career and job related workshops, and a regular program of on-campus interviews with employers. A web-based database system called eRecruiting is now available to coordinate the job search process via resume development, on-campus interviews, and a job referral system. A computer assisted career guidance and information system, DISCOVER, is also available. The alumni career networking system provides knowledgeable career advice from

a network of college alumni/ae who have volunteered to assist the Center. Students are welcome to meet by appointment with a career adviser to explore the resources of the Placement Center located in the DeChiaro College Center, West Wing, First Floor; 410-617-2232; e-mail: cdpc@loyola.edu; website: <http://www.loyola.edu/dept/career-dev/>. Evening hours are available, please call for times.

COLLEGE STORE

The College Store is located on the Baltimore Campus on the second floor of the Andrew White Student Center. In addition to new and used textbooks, the store has a wide selection of general reading books, school supplies, Loyola clothing and gifts, greeting cards, snacks. Textbooks and supplies required for courses taught at the Baltimore, Columbia, and Timonium Campuses may be purchased by mail. Call the College Store at 410-617-2291 or visit, <http://www.lcb.bkstr.com/>, and allow at least five days for order processing and UPS delivery. Visa, MasterCard, American Express, DISCOVER, and personal checks are accepted.

COMPUTER FACILITIES

Loyola College has extensive computer facilities for use in research and course work. There is no charge for computer time and students are encouraged to become familiar with computer operations. Instruction in the use of the computer is an integral part of the College's quantitative courses.

The campus network consists of a VAX 6630; an IBM RS 6000; UNIX workstations; IBM PCs and Macintoshes; and Novell file servers networked via a campus-wide Ethernet. Internet access is provided by the College. Each residence hall room is wired to the campus backbone with 10MB service. General purpose computer labs are located on the Baltimore Campus in various academic buildings and residence halls, as well as the Columbia and Timonium Campuses. Most labs are accessible 24-hours a day via Evergreen Card (issued by Public Safety). Labs contain IBM PCs, Macintoshes, UNIX workstations, and laser printers.

Documentation for software supported by the College is available from Instructional Services, 410-617-5305. WordPerfect, Word, Excel, and PowerPoint are just a few of the software packages currently

supported by the College. Any questions concerning the use of computer facilities should be directed to the Technology Service Center, 410-617-5555.

DISABILITY SUPPORT SERVICES (DSS)

DSS provides services for students with disabilities to ensure physical, programmatic, and electronic access to College programs. DSS arranges accommodations, adjustments, and adaptive equipment for students with disabilities.

Based upon a student's disability, documentation, and needs, services may include: advocacy; alternative arrangements for tests; assistance physically getting around campus; priority registration; counseling; study skills help; note takers; readers/recorded books; referral to appropriate services (on and off campus); sign language interpreters; adaptive equipment; taped lectures; and other accommodations as needed.

A student must register with the DSS Office in order for services to be provided. Documentation of disability from a certified professional is required. All information regarding a student's disability is confidential and kept in the DSS Office.

The DSS Office is located in 4502A Seton Court. To schedule an appointment or for more information, students should contact DSS at 410-617-2062, (TDD) 410-617-2141, or mwiedefeld@loyola.edu.

HEALTH INSURANCE

All graduate students enrolled in a degree seeking program and taking a minimum of six credits are eligible to enroll on a voluntary basis in the College's student health plan provided through the Chickering Benefit Planning Agency, Inc. For more information, contact the Chickering Group, 800-232-5481 or the Loyola Insurance Manager, 410-617-5055. Brochures may be obtained from Graduate Admissions, the Student Health Center, or the Columbia and Timonium Campuses.

HOUSING

The Office of Student Life provides assistance to graduate students in obtaining off-campus housing. A list of off-campus housing options may be reviewed at the Office of Student Life, Seton Court, Room 08B. The Office of Graduate Admission provides off-campus housing information to prospective students. This information may be obtained by calling, 410-617-5020 or e-mailing, graduate@loyola.edu.

LOYOLA/NOTRE DAME LIBRARY

Students are encouraged to make extensive use of the library, which contains approximately 410,000 book and bound periodical volumes, 30,000 media items (many of which are videos and CDs), and 2,100 current periodicals.

The library's homepage (www.loyola.edu/library) serves as a gateway to the Internet; students have Web access to numerous databases, including ERIC, PsycINFO, EIU, ViewsWire (international business, Religion Index, Lexis-Nexis Academic Universe, Maryland Digital Library, Cambridge Scientific Abstracts, and General BusinessFile. Many journals are available on-line through electronic archives such as JSTOR and Project Muse. There is also easy access to the library's catalog, as well as to the catalogs of other libraries. Students can connect with these resources from any computer on Loyola's campus network, including library workstations. Many of the databases can be accessed from off-campus computers by current students who are registered library users.

Librarians in the Reference Department assist students in selecting and using various information sources. Books and articles not owned by the library can usually be acquired through interlibrary loan. Circulation Department staff are available to assist with reserve materials and photocopying facilities.

Students at the Columbia and Timonium Campuses can request books and (for a fee) photocopies of articles from periodicals the library owns to be sent to those campuses for pickup. By arrangement with Loyola, the Howard County Library purchases books and periodicals of particular relevance to Loyola graduate courses.

Hours during Fall and Spring Semesters are:

Monday – Thursday	8:00 a.m. – 2:00 a.m.
Friday	8:00 a.m. – 6:30 p.m.
Saturday	8:00 a.m. – 8:00 p.m.
Sunday	10:00 a.m. – 2:00 a.m.

Summer and intersession hours are printed in the course schedule booklets, and all hours of operation are posted on the library's website.

PARKING

All students are required to register their vehicles with the College, and the vehicle registration must be presented with the application.

Baltimore Campus

Parking permits are available from Student Administrative Services at a cost of \$10 per year. Students may park on the Cathedral and York Road lots or Butler lot; however, length of stay on the Butler lot is restricted from 6:00 a.m. to 4:00 p.m. on weekdays. Free shuttle service is available to all areas of the campus. The Baltimore parking permit is also valid at the Columbia and Timonium Campuses.

Columbia/Timonium Campuses

Parking permits are available free of charge at the Reception Desk of either campus, however, neither permit is valid on the Baltimore Campus. Students attending classes at Baltimore **and** Columbia or Baltimore **and** Timonium are expected to register their vehicles at the Baltimore Campus.

POST OFFICE

The Post Office provides services which include the sale of stamps and money orders; reception and posting of parcels; and special services for handling registered, certified, insured or express mail and return receipts. The Post Office also provides UPS service. Hours during the Fall and Spring Semesters are Monday through Friday, 8:30 a.m. to 4:30 p.m. For more information, call 410-617-2258.

RECORDS OFFICE

The Records Office provides services during the following hours:

Monday – Thursday	7:00 a.m. – 7:30 p.m.
Friday	7:00 a.m. – 4:30 p.m.

For on-line information regarding registration, graduation, student services, course schedules, forms, calendars, and other helpful links, visit <http://www.catalogue.loyola.edu/records/>.

STUDENT ADMINISTRATIVE SERVICES

Student Administrative Services (first floor, Maryland Hall) provides services during the following hours:

Monday – Thursday	7:00 a.m. – 7:30 p.m.
Friday	7:00 a.m. – 4:30 p.m.
On-Line	http://www.loyola.edu/sas/

STUDENT HEALTH AND EDUCATION SERVICES

The medical clinic provides outpatient care during the academic year. The fee is \$10 per visit. It is located at 4502-A Seton Court; hours are 8:30 a.m. to 5:00 p.m., weekdays. After-hours medical care is provided by Sinai Hospital, 410-583-9396.

The Center also promotes many wellness programs. For information, please call the medical clinic or Health Education Services, 410-617-5055 or visit, <http://www.loyola.edu/healthctr/>.

ACADEMIC REGULATIONS AND POLICIES

ACADEMIC INTEGRITY

Loyola College is dedicated not only to learning and the advancement of knowledge but also to the development of ethically sensitive, socially responsible persons. The College seeks to accomplish these goals through a sound educational program and encourages maturity, independence, and appropriate conduct among its students and faculty within the College community. It is the responsibility of faculty and students alike to maintain the academic integrity of Loyola College in all respects.

The faculty is responsible for presenting a syllabus indicating all work in a course, the conduct of examinations, and the security of tests, papers, and laboratories in connection with courses and programs of the College. Faculty remind students at the first meeting of each class of the standards of behavior and conduct to which they are expected to adhere.

The College expects every student to behave with integrity in matters relating to both the academic and social aspects of the College community. Refer below and to the **departmental student handbook** for particulars.

INTELLECTUAL HONESTY

Students assume a duty to conduct themselves in a manner appropriate to the College's mission as an institution of higher learning. Their first obligation is to conscientiously pursue the academic objectives which they have set. This means that students will do their own work and avoid any possibility of misrepresenting anyone else's work as their own. "The act of appropriating the literary composition of another, or parts, or passages of his writing, of the ideas, or the language of the same, and passing them off as the product of one's own mind" (*Black's Law Dictionary*, Fifth Edition) constitutes "plagiarism." Avoiding plagiarism involves careful use of quotation marks, notes, and citations, which the student must provide on all written work.

The student's second obligation is not to engage in acts of cheating. "Cheating" is using unauthorized assistance or material, or giving unauthorized assistance or material for the use of another in

such a way that work or knowledge which is not the student's own is represented as being so. Avoiding cheating involves refusing to give or receive assistance from other students, books, or notes (unless specifically permitted by the instructor) on tests, papers, laboratory reports, or computer programs.

Whenever evidence of a possible violation of academic honesty on the part of a student is found, the course instructor shall review the evidence and the facts of the case promptly with the student. The instructor shall determine the appropriate sanction to be imposed. If the student does not accept the decision of the instructor, the student can request that the instructor communicate promptly a written charge setting forth the essential facts of the case to the chair of the instructor's department. The chair's decision is final.

STANDARDS OF CONDUCT

It is expected that students will conform to all policies and regulations of the College and classes in which they are registered, including those concerning procedure and conduct in the Loyola-Notre Dame Library. Students must also abide by all federal, state, and local laws. Susan Donovan, Vice-President for Student Development and Dean of Students, Jenkins Hall, Room 110, 410-617-2842, is responsible for administering such regulations.

Violations are brought to the attention of the Dean of Students who shall then hear the case or refer it to the College Board on Discipline. The decision of the Dean or the Board is final. Warnings, restrictions on social and other activities, fines, suspensions and dismissals are used in cases involving violations of College regulations and standards of personal conduct. Suspension and dismissal are normally the only actions which are recorded on the student's permanent record. Particulars concerning the kinds of violations, due process, and sanctions that may be imposed, can be found in the **departmental handbook**.

BUCKLEY AMENDMENT

Loyola College has a commitment to protect the confidentiality of student records. The College makes every effort to release information only to those individuals who have established a legitimate need for the information. Documents submitted to the College by the student or other authorized person or agency for the purpose of admission to the College become the property of Loyola College and cannot be released (originals or copies) to another party by request.

In accordance with Public Law 93–380, Family Educational Rights and Privacy Act (FERPA) students have the right to:

- Review and inspect their education records.
- Request correction to their record that the student believes is inaccurate or misleading.
- Consent to disclosure of personally identifiable information contained within the student's folder to a third party (including parent's), except for information the College identifies as Directory Information and to the extent that FERPA authorizes disclosure without consent.
- File a complaint with the U.S. Department of Education concerning alleged failures by Loyola College to comply with the requirements of FERPA.

The parent(s) of a dependent student, as defined in Title 26 U.S.C.S. 152 Internal Revenue Code, also has the right to inspect records which are maintained by the College on behalf of the student. Proof of dependency must be on record with the College or provided to the office responsible for maintaining records prior to reviewing the records.

Loyola College considers the following information to be directory information which can be released without the written consent of the student. Name, photo, home, dorm, local, and e-mail address; home, dorm, local phone number; voice mailbox; class year; and enrollment status. Every student has the right to file a written request with the College (Records Office) to restrict the listing of directory information in the printed and electronic address directory.

CLASSIFICATION OF STUDENTS**DEGREE STUDENTS**

Applicants who meet the entrance standards of the program for which they are applying are usually admitted as degree candidates; however, students with provisional or probationary status have certain administrative conditions attached to their acceptances. All specified requirements must be met before final acceptance as a degree candidate is granted. Students with provisional or probationary status who do not comply with the conditions of their acceptance will not be permitted to register for subsequent terms.

NON-DEGREE STUDENTS**Visiting Students**

Graduate students who take courses at Loyola which count toward a graduate degree at another institution are visiting students. These students must submit an authorization letter from the Dean at the degree-granting institution indicating that the student is in good academic standing and outlining the specific courses to be taken at Loyola. Visiting students are ineligible for financial aid or a degree from Loyola College.

Visiting students should submit an application along with the authorization letter. The usual tuition, special course fees, and a \$25 registration fee are charged each semester.

Visiting students in the Sellinger School of Business and Management must meet the same admission and prerequisite requirements as degree-seeking students.

Special Students

Special students are those who have a baccalaureate degree and are not pursuing a graduate degree at Loyola. They must meet the same admission and prerequisite requirements as degree-seeking students. Special students must submit an application, application fee, and the college transcript which verifies receipt of the college degree.

Special students admitted with conditions may be required by the department to reapply to the pro-

gram if they successfully meet the conditions and decide to pursue a degree. Special students may not enroll in graduate courses in psychology, speech-language pathology/audiology or the Sellinger School of Business and Management.

Teacher Certification Students

Teacher certification students are those who have a bachelor's degree and are satisfying elementary or secondary teaching certification requirements only. Candidates seeking certification as part of a master's degree program are classified as degree students.

Students must send an application form, fee, and required official transcripts for all colleges attended to the Graduate Admissions Office. Students must meet the same admissions requirements as degree students. No in-service course credits count toward completion of teacher certification requirements.

Post-Master's Students

Students with a master's degree may be admitted to the College of Arts and Sciences for the Certificate of Advanced Study (C.A.S.), a thirty-credit minimum program beyond a master's degree in the area or related areas in which the master's was received. C.A.S. programs are offered in education (including Montessori), pastoral counseling, psychology, and speech-language pathology/audiology.

Students with a master's degree in business from Loyola or an AACSB accredited school may take individual courses under the Master's Plus Program, which does not lead to a degree.

STUDENT STATUS

A full-time student registers for at least nine credits during the Fall Semester, nine credits during the Spring Semester, and six credits during the Summer Sessions. Since instructors' assignments presume an average of eighteen hours of study per course week in fall and spring and twenty-four in the summer, full-time students should normally not be employed for more than sixteen hours a week.

Half-time students register for six credits during the Fall Semester, six credits during the Spring Semester, and three credits during the Summer Sessions.

INTERNATIONAL STUDENTS

An international student on a Student Visa (F-1) or Exchange Visitor Visa (J-1) may be admitted to Loyola subject to the following requirements:

1. International students seeking admission to academic programs with fixed-date application processes must complete an application for admission by stated program deadlines (see Application Deadlines under Admissions for specific departmental requirements). Programs which use rolling admission require international students to complete applications by **May 15** for the Fall Semester, **August 15** for the Spring Semester, and **January 15** for the Summer Sessions.
2. Students for whom English is a non-native language must submit the results of the Test of English as a Foreign Language (TOEFL). A score of 213 or higher is required if the TOEFL is administered through Computer Adaptive Testing. Students taking the paper-based version of the TOEFL must score a 550 or higher. Speech-Language Pathology and Pastoral Counseling programs require demonstration of verbal proficiency. Official TOEFL score reports cannot be more than two years old. A bulletin explaining TOEFL is available from the Educational Testing Service, Box 966, Princeton, NJ 08540. The Internet web site address is <http://www.toefl.org/>.
3. International applicants who have pursued college or university studies outside the United States are required to submit their official transcripts to the World Education Services (www.wes.org) for translation of grades and credits. An additional fee is typically required for this service.
4. An international student already attending a school in the United States who wishes to transfer to Loyola must comply with Immigration procedures regarding transfers.
5. Must apply for, and maintain, legal status in the United States. The International Student Adviser in the Records Office will help international applicants by issuing the I-20 or IAP-66 form. Students must supply written proof of

sufficient financial resources to pay all educational, living, personal, and medical expenses during their stay in the United States.

6. Upon notification of formal acceptance into a graduate program, an international student will be required to pay in advance tuition and fees for one semester/module prior to the issuance of the I-20 or IAP-66 forms.
7. Matriculating international students with a current J-1, J-2, F-1, or F-2 Student Visa enrolled at the College are required to purchase the Loyola College Student Health Insurance Plan. The Plan is mandatory and nonwaivable. The insurance premium payment check is made payable to The Chickering Insurance Company and enclosed with the tuition payment made payable to Loyola College.
8. Must submit proof of immunity to communicable diseases. A tuberculin skin test is required within six months of admission. Additional requirements may vary by program. Health History and Immunization forms will be sent with the admissions package. Students may also contact the Loyola College Health Services, 410-617-5055; fax: 410-617-2173.
9. Must apply as a full-time student. In order to maintain F-1 or J-1 nonimmigrant student status, accepted applicants must take and successfully maintain nine or more semester hours of graduate work during the Fall Semester and nine or more semesters hours of graduate work in the Spring Semester.
10. Must complete the courses with a grade of *B* (3.000) or better in order to remain in good standing at Loyola College, which is necessary to maintain the F-1 or J-1 nonimmigrant student status.

An International Student Supplement Form can be obtained by contacting the Office of Graduate Admission at 410-617-5020 or graduate@loyola.edu. The form can also be obtained by visiting, <http://www.loyola.edu/graduate/>.

GRADES

A student's performance in a course will be reported by the instructor in accordance with the following grading system:

- A *Excellent*. Denotes high achievement and indicates intellectual initiative beyond the objectives of the course.
- B *Good*. Denotes work which meets course objectives and the intellectual command expected of a graduate student.
- C *Unsatisfactory*. Denotes work of inferior quality compared to the objectives of the course. It is the lowest passing grade (see Academic Dismissal).
- F *Failure*. (see Academic Dismissal)
- W *Withdrawal*. Denotes authorized departure from course without completion. It does not enter into grade point average calculation.
- I *Incomplete*. (see Incompletes)
- AW Denotes lack of attendance or completion of course requirements for students registered as a listener (audit).
- L *Listener*. (See Audit Policy)
- NG *No Grade*. Denotes grade to be submitted later or a course for which no credit or grade is given.
- GL *Grade Later*. Denotes the first semester is completed in a two semester course for which a full-year grade is issued.
- P *Pass*. Denotes satisfactory work, a *B* (3.000) or better, in an ungraded course.

Additional suffixes of (+) and (-) may be attached to passing grades to more sharply define the academic achievement of a student. In calculating a student's quality point average (QPA) on a per credit basis, *A* = 4.000; *A-* = 3.670; *B+* = 3.330; *B* = 3.000; *B-* = 2.670; *C+* = 2.330; *C* = 2.000; and *F* = 0.000. The QPA is computed by multiplying the grade points for each course times the num-

ber of credits for that course, summing these points and dividing by total credits taken. **Under no circumstances will a student be permitted to graduate unless the QPA is 3.000 or higher.** Honors are not awarded in graduate programs.

Courses considered in calculating the QPA are those taken at Loyola College after admission into the program. Courses for which advanced standing or waivers were given are not included. Students may not retake courses for credit. Some departments have additional grade restrictions listed under the Degree Requirements section of each department.

GRADE REPORTS

The Records Office mails official grades to the students. Students can access their grades via the Web through the College's administrative intranet system, WebAdviser. Students must have a User Name and Password. No grades are given in person or over the telephone.

Grade information is not available via the Web nor will grade reports be released for students with outstanding financial obligations to the College or those who have borrowed and not returned equipment and supplies such as library books or athletic equipment.

INCOMPLETES

At the discretion of the course instructor, a temporary grade of *I* (Incomplete) may be given to a student who is passing a course but for reasons beyond the student's control (illness, injury, or other nonacademic circumstance), is unable to complete the required coursework during the semester. A grade of *I* should not be issued to allow the student additional time to complete academic requirements of the course (except as noted above), repeat the course, complete extra work, or because of excessive absenteeism or the student's unexcused absence from the final exam.

Arrangements for the grade of *I* must be made prior to the final examination, or if the course has no final examination, prior to the last class meeting. The responsibility for completing all coursework within the agreed upon time rests with the student.

If the completion date is more than two weeks after the end of the semester, the appropriate dean's signature will be required. The grade of *I* may remain on the record no longer than the time period agreed to by the instructor and the student and may not exceed one semester. If the *I* is not resolved satisfactorily within the agreed upon time period, a grade of *F* (0.000) will be recorded by the Records Office as the final grade. Students may not graduate with a grade of *I* in any course on their record.

APPEAL OF A GRADE

Any student who has reason to question the accuracy of a grade should request a consultation with the instructor. If a satisfactory solution is not reached, the student should request, in writing, a formal review of the grade with the instructor. This request must be received by the college no later than four months after the grade was issued. The instructor then reports to the student, in writing, the result of the grade review. If the student is still not satisfied, the student should make a request, in writing, within thirty days of receipt of the instructor's resolution for a conference with the department chair. After conferring with the student and the instructor, the chair then sends a written recommendation to the instructor and the student.

If the instructor does not accept the recommendation of the department chair, then the chair will appeal to a two-member panel to resolve the issue. The panel will consult all parties concerned with the case and then vote either for or against the recommendation of the department chair. The decision of the panel is final. If the vote of the panel is split, the original grade stands.

If a dismissal involves a grade appeal, then both the dismissal and the grade appeal must be filed within thirty days of the close of the semester. Students who have been academically dismissed and who are in the process of an appeal may not register for future semesters until the appeal is resolved.

AUDIT POLICY

Audit status indicates that a student has registered as a listener for the course. An auditing student must meet the same prerequisites and pay the same tuition and fees as a credit student, but attendance and completion of the course assignments are at the option of the student unless otherwise specified by the instructor. Students not completing the requirements stipulated by the instructor will be issued a grade of *AW*. Enrollment for audit in those courses in which auditing is permitted is on a space-available basis.

A student may change from audit to credit and from credit to audit until the third class of the semester, with permission of the instructor. After that date, change from audit to credit is not permitted. Once a student has audited a course, that course cannot be retaken for credit.

WITHDRAWALS

A student may withdraw from a course no later than the date reflected in the academic calendar and receive a grade of *W*. Following this date, the student may be permitted to withdraw with a grade of *W* only for serious reasons. Danger of failing the course or the effect of a low or failing grade on QPA, probationary status, scholarship aid, etc., are not sufficient reasons to withdraw. During the final two weeks prior to the semester examination period, withdrawal from a course is not permitted for any reason. Failure to comply with the official withdrawal procedure will result in a permanent grade of *F* (0.000).

To withdraw, a student must submit a Change of Registration Form to the Records Office or to the appropriate department office. A withdrawal from a graduate course is not official until the form has been properly approved and has the appropriate signatures. The student's permanent record will show a grade of *W* for a withdrawal. The record of any student who has received two or more *W* grades will be reviewed prior to the student's continuance in the program.

ACADEMIC STANDING AND DISMISSAL

It is the student's responsibility to make certain that the minimum QPA requirement of 3.000 is maintained. Students who fall below this level of achievement will be placed on probation for one semester. Failure to raise the cumulative QPA to 3.000 in the following semester may result in dismissal from the program. A *B-* (2.677) grade is not a high enough grade to raise the QPA to the required 3.000. The accumulation of more than two *C/C+* (2.000/2.330) grades or the receipt of one *F* (0.000) will result in dismissal. Dismissal may also result from excessive withdrawals, academic dishonesty, or other unethical or unprofessional conduct reflecting upon a student's ability to enter into the academic or professional field in which the degree is being offered.

A student has the right to appeal an academic dismissal. A written request for appeal must be made to the chair of the department's Committee on Academic Standards within 30 days after notice of dismissal. Each department has appeal procedures which are available to all students.

Note: This policy may vary among departments; refer to the specific department's section in this catalogue and the departmental handbook for any possible variation in the dismissal policy.

TIME LIMIT

Continuous registration is not a requirement of the graduate program. **However, if a student fails to register for a course for three successive terms including at least one summer, the student will be withdrawn from the program and must reapply for admission and pay a readmission fee.** Readmission is not automatic; readmitted students are subject to any changes made in admission and degree requirements since the date of their first admission.

In the College of Arts and Sciences, a time limit of five years from the semester in which graduate courses are begun is normally allowed for the completion of course work. Normally prerequisite courses do not count against the five-year limit. One additional year is permitted for completion of the thesis in areas where a thesis is a requirement. It is expected that a student will complete the thesis within two regular semesters after

the one in which presentation is made in Thesis Seminar. Refer to the department for information regarding registration for Thesis Seminar or Thesis Guidance.

The Psychology Department allows students in the Master of Science program (45 credits) six years to complete all degree requirements. The department allows students seven years to complete all of the requirements for the Psy.D. program, including the dissertation.

The Speech-Language Pathology program has an integrated, two-year schedule.

The Executive MBA has a fixed, two-year schedule, and the MBA Fellows Program has a fixed, two and a half year schedule. The MBA and MSF evening programs require students to complete their degrees within five years of first enrollment in an upper-level (700) course and within seven years of first enrollment in the program. Students are expected to have completed sixty-percent of their program within the first four years.

LEAVE OF ABSENCE

A student requiring a leave of absence must make a request in writing to the department chair and receive written permission for the leave of absence for a specified period of time. The terms under which the student returns are stated in the letter from the department chair or appropriate administrator.

In the Psychology Department, master's students should make this request in writing to the director of the master's program, and doctoral students should write to the director of clinical training. Students are allowed only one leave of absence during the course of their studies. If a student wants an additional leave of absence, that student must go through an appeals committee.

TEST MATERIALS

All examinations, tests, and quizzes assigned as a part of a course are the property of Loyola College. Students may review their graded examination, test, or quiz but may not retain possession unless permitted to do so by the instructor.

ADVANCED STANDING

Advanced standing toward a degree or certificate program may be granted for graduate courses which have been taken in other accredited graduate schools within five years of the date of admission to graduate study at Loyola. The maximum number of credits normally allowed for advanced standing is six (6), and the student must have a grade of at least a *B* (3.000) in each course under consideration. A written request for advanced standing and an official transcript must be submitted to the department chair or appropriate administrator as delegated. Advanced standing in the Sellinger School applies to upper-level courses.

TRANSFER CREDIT

Loyola graduate students wishing to take courses at another accredited graduate school must obtain prior written approval from the chair of the department or the appropriate administrator. No more than six (6) credits from advanced standing and/or transfer will be accepted toward the degree. A grade of at least a *B* (3.000) must be received for each course transferred to Loyola. Under exceptional circumstances, courses may be transferred after beginning degree work at Loyola College.

TRANSCRIPTS

Students' academic records are maintained in the Records Office. Grades are available via the Web, and grade reports are issued at the end of each semester as long as the student has no outstanding financial or other obligations with the College. Academic records are available for student inspection, by appointment during office hours.

The transcript is a facsimile of the student's permanent academic record at Loyola. Only unofficial transcripts are given to the student; these transcripts do not receive the College seal or the signature of the Director of Records. Transcripts officially transmitted directly to another college or university or other official institution or agency receive the seal of the College and are signed by the Director of Records. Transcripts will be issued only upon the written request of the student concerned. Telephone and fax requests to issue transcripts are not accepted. There is no charge for transcripts.

Transcripts should be requested well in advance of the date desired to allow for processing time and possible mail delay. The College will not assume responsibility for transcripts that are delayed because they have not been requested in time or the student has an outstanding debt with the College. Transcripts will not be faxed, nor will they be issued during the last week of registration or the first week of classes.

Transcripts of work at other institutions or test scores submitted for admission or evaluation of credit cannot be copied or reissued by Loyola College. If that information is needed, the student must go directly to the issuing institution or agency.

GRADUATION

All academic and clinical requirements, comprehensive exams, thesis (if required), and any additional requirements unique to the department must be satisfactorily completed. Under no circumstances will a student be permitted to graduate if the cumulative QPA is not exactly 3.000 or higher. Students whose QPA falls below 3.000 in the last semester will be placed on probation. These students will be given one semester to raise the QPA to the required 3.000 by taking an additional course(s) above the listed requirements.

All students are required to file an application for graduation accompanied by the fee with the Records Office. Students must submit applications by the first day of class of the fall semester for January graduation, the first day of class of the spring semester for May graduation, and the first day of class of the first summer session for September graduation. Failure to comply with the graduation application deadline will delay graduation until the next semester. Refer to the course schedules or the Records Office web site for specific dates. Students who file an application for a specific semester and do not complete the graduation requirements must submit a new application, however, no additional fee is required.

Formal commencement exercises are held each year in May. Only students who have completed all degree requirements are invited to participate. All graduates are required to pay the graduation fee. Students who complete degree requirements in September and January may obtain their diplo-

mas at that time from the Records Office. They may also participate in the formal Commencement ceremonies the following May.

FEES

Loyola College understands that the costs associated with high quality education are of concern to students and their families. Accordingly, the College has been diligent in managing its resources and flexible in its approach so that a Jesuit education in the Loyola tradition is available to all who want to pursue it. This section outlines the costs for graduate students, including tuition and fees.

TUITION

COLLEGE OF ARTS AND SCIENCES

Education

M.A./M.Ed./C.A.S.E. (per credit) \$275.00

Contact the program director regarding per credit tuition information for the M.Ed. in Montessori Education with affiliated off-site AMI Institutes.

Montessori Education

M.Ed. \$12,495.00

C.A.S.E. \$9,470.00

(Full-Time Academic Year; WMI at LCM, Timonium Campus only; inclusive, excluding prerequisite course fee)

Four-Summer Format: M.Ed. \$13,500.00

Four-Summer Format: C.A.S.E. \$9,470.00

(2003–2006, WMI at LCM, Timonium Campus; inclusive, excluding prerequisite course fee)

Engineering Science (per credit) \$435.00

Modern Studies (per credit) \$254.00

Pastoral Counseling (per credit)

M.A./M.S./C.A.S. \$295.00

Ph.D. \$295.00/\$395.00

(dependent upon course level)

Psychology

M.A./M.S./C.A.S. (per credit) \$312.00

Psy.D., Class of '07 \$14,566.00

Psy.D., Class of '06 \$17,891.00

Psy.D., Class of '05 \$17,540.00

Psy.D., Class of '04 \$17,200.00

Speech-Language Pathology

Part-Time CAGS (per credit) \$317.00

Full-Time, Class of '04 \$16,000.00

Full-Time, Class of '03 \$15,500.00

SCHOOL OF BUSINESS AND MANAGEMENT

MBA/MSF (per credit) \$435.00

Executive MBA (Class of '04, all inclusive) \$42,900.00

MBA Fellows (Class of '05, all inclusive) \$40,900.00

FEES (NON-REFUNDABLE)

GENERAL

Application Fee \$50.00

Certificates (30 credits) \$80.00

Declined Credit Card Fee \$25.00

Graduation Fee

Attending \$105.00

Not Attending \$80.00

ID Cards (replacement) \$15.00

International Student Orientation Fee \$100.00

Late Registration Fee \$25.00

Parking Fee (Baltimore Campus) \$10.00

Readmission Fee \$50.00

Registration Fee (part-time, per semester) \$25.00

Returned Check Fee \$25.00

(insufficient funds)

Special Testing Fee \$15.00

DEPARTMENTAL

Education

Montessori Prerequisite Course \$1,675.00

(see Education Chapter)

Laboratory Fee \$60.00

Field Experience \$100–200.00

Pastoral Counseling

Doctoral Dissertation Fee \$1,400.00

(per semester of clinical placement)

Clinical Training Fee

M.S., Full-/Part-Time \$1,100.00

(per clinical course; four courses)

C.A.S. (per semester; two semesters) \$1,100.00

Advanced Individual Supervisory Fee \$250.00

(per semester for PC 805/PC 806)

Psychology

Laboratory Fee \$75.00

Field Experience (M.A./M.S./C.A.S.) \$300.00

Thesis Guidance Fee

PY 761–764 (dist. over four semesters) \$1,200.00

PY 757/PY 765/PY 907 (per semester) \$300.00

Comp. Exam Guidance Fee (PY 758)	\$100.00
Registration Fee (PY 950/PY 951)	\$25.00

REFUND POLICY (TUITION ONLY)

When official withdrawal is granted and has been properly approved, a refund of tuition will be made according to the schedules below. The date that determines the amount of refund is the date on which a written petition for official withdrawal from a course or courses is received by the department chair or appropriate administrator.

PER CREDIT

For students enrolled in programs where tuition is paid on a per credit basis:

Fall and Spring Semesters (excluding Montessori)

prior to the first class meeting	100%
prior to second class meeting	80%
prior to third class meeting	60%
prior to fourth class meeting	40%
prior to fifth class meeting	20%

Summer Sessions/Montessori Multi-Summer Format

prior to the first class meeting	100%
during first week of class	60%
during second week of class	20%

Subsequently, no refund is made.

FLAT RATE

For students enrolled in programs with a flat rate tuition and all Montessori students in full-time academic year programs:

Fall and Spring Semesters

prior to the first class meeting	100%
prior to second week of classes	80%
prior to third week of classes	60%
prior to fourth week of classes	40%
prior to fifth week of classes	20%

Subsequently, no refund is made.

PAYMENT OPTIONS

WALK-IN/MAIL-IN REGISTRATION

Payment in full for tuition and all fees is required at the time of registration. Payment may be made by cash, personal check, money order, MasterCard, Visa, or DISCOVER.

All registrations requiring third party billing, including tuition remission, must be accompanied by an immediately executable authorization (on official organization letterhead) or purchase order.

WEB REGISTRATION

Students electing the Web registration option may pay by cash, personal check, money order, Visa, MasterCard, or DISCOVER. Third party billing, employee tuition remission benefits, and graduate assistantships, scholarships, and approved financial aid are also acceptable methods of payment.

All payments or required payment authorization documents must be received by the College no later than ten days after the registration request information is submitted via the Web. Failure to meet the ten-day due date will result in cancellation of the requested registration information.

There will be no exceptions to this policy.

All application materials for a Federal Direct Stafford Loan must be completed and received by the Financial Aid Office at least four weeks prior to the beginning of the semester to insure that loan proceeds are available for payment of College charges. Late applicants must pay all College charges when registering for classes.

DEPARTMENTAL ASSISTANCE

The Education Department offers a special financial program to education students seeking a master's degree. Students make monthly payments over a specified period, and the tuition rate remains constant for the entire program. A promissory note **must** be signed prior to registering for classes. For more information, contact the department at 410-617-5095.

FINANCIAL AID

GRADUATE ASSISTANTSHIPS

Loyola College offers a limited number of graduate assistantships to students enrolled in the College of Arts and Sciences. Students are considered for assistantships based on academic performance, previous experience, and other criteria established by the department chair or program director. Approved functions of graduate assistants include but are not limited to: academic, bibliographic, and library research projects; workshop preparation; in-service programs; seminars; special academic events; laboratory assistance; exam proctoring; and assistance in departmental preparation for accreditation and evaluation.

Compensation for graduate assistantships varies depending on the program, responsibilities, and duties assigned to the position. Applications for assistantships may be obtained from the department chair or program director.

RESIDENT ASSISTANTSHIPS

The Student Life Office has a number of graduate resident coordinator positions on its staff specifically for graduate students. For an application and/or further information, contact the Office of Student Life, 410-617-5081.

DEPARTMENTAL PROGRAMS

Individual departments may have direct-hire employment opportunities, tuition payment plans, or departmental grant assistance which is directly administered by the graduate program director. For more information on these programs, contact the department's graduate program director or coordinator.

WILLIAM D. FORD FEDERAL DIRECT LOAN PROGRAM

FEDERAL DIRECT STAFFORD LOAN PROGRAM (SUBSIDIZED)

This program allows students who demonstrate federal financial aid eligibility and are enrolled at least half-time to borrow up to \$8,500 per year for a maximum of four years. The cumulative amount a

student may borrow through this program is \$65,500, including loans made at the undergraduate level. The interest rate is variable, adjusted annually not to exceed 8.25 percent. Interest does not accrue nor does payment begin on subsidized Direct Stafford Loans until termination of enrollment on at least a half-time basis. Subsidized Direct Stafford Loans carry a 3.0 percent federal origination fee which will be deducted from each disbursement. New borrowers must complete an electronic Federal Direct Stafford Loan promissory note to borrow funds through this program. (See Student Status section under Academic Regulations and Policies for a definition of half-time enrollment.)

FEDERAL DIRECT STAFFORD LOAN PROGRAM (UNSUBSIDIZED)

This program allows all students, regardless of financial aid eligibility and who are enrolled at least half-time, to borrow up to \$18,500 per year, less the amount of any subsidized Direct Stafford Loan received by the student. The interest rate and origination fee are the same as specified above, however, interest accrual begins immediately during in-school and deferment periods. Interest accruing during those periods may be paid or capitalized.

APPLICATION PROCEDURES

Applicants for Federal Direct Stafford Loans must complete the Free Application for Federal Student Aid (FAFSA) and submit the Loyola College Federal Direct Stafford Loan Information Sheet, the Federal Verification Worksheet, and a signed copy of the student's (and spouse's) Federal Tax Return.

All application materials for a Direct Stafford Loan must be completed and received by the Financial Aid Office four weeks prior to the period of enrollment to ensure the loan proceeds are available for payment of College charges. **Late applicants must pay all College charges in advance and will be reimbursed by the College upon receipt of the loan proceeds.**

STATE PROGRAMS

Maryland State Senatorial and Delegate Scholarships: These scholarships are awarded by Maryland State Senators and Delegates to residents of their legislative districts. Contact your legislative representatives for the preferred application procedure.

Maryland HOPE Teacher Scholarship: This program includes \$3,000 a year for Maryland residents pursuing teacher certification at a four-year college or university in the state. It is available to students with a cumulative 3.000 grade point average and requires recipients to agree to teach in a Maryland public school one year for each year the scholarship is received.

Maryland Sharon Christa McAuliffe Memorial Teacher Education Award: These awards assist students who would like to teach school in Maryland in a subject area of critical need.

Maryland Loan Assistance Repayment Program (LARP): This program assists Maryland residents who work for state or local government or non-profit agencies in paying back student loans.

STUDENT STATUS CHANGES

Recipients of any type of federal, state, institutional, or private sources of financial aid must notify the Financial Aid Office, in writing, of any changes in their enrollment status including:

- failure to maintain half-time enrollment;
- withdrawal;
- transfer to another college or university;
- change in anticipated graduation/completion date.

Federal law also requires Federal Stafford Loan (subsidized or unsubsidized) recipients to notify their lenders (or any subsequent holder of their loans) in writing if any of the following events occur before a loan is repaid:

- change of address;
- name change (eg., maiden to married);

- failure to enroll at least half-time for the loan period certified, or at the school that certified the loan application;
- withdrawal from school or attendance on less than a half-time basis;
- transfer to another college or university;
- change of employer or address of an employer;
- any other changes in status that would affect the status of a loan.

NATIONAL STUDENT CLEARINGHOUSE (NSC)

Loyola College uses the services of the NSC to process enrollment verification requests received from lenders, guaranty agencies, servicers, and the U.S. Department of Education. The U.S. Department of Education has ruled that a school's release of personally identifiable information from student education records to the Clearinghouse is in compliance with the Family Educational Rights and Privacy Act (FERPA).

The NSC also provides a service to students which allows them to keep track of their loan providers. The "LoanLocator" section of the Clearinghouse website (www.studentclearinghouse.org) allows students to easily compile lists of their loan providers by entering their social security number, date of birth, and zip code. The information includes the loan providers' names, customer service telephone numbers, and Web hyperlinks. Students are then able to access their loan providers' websites for more detailed information about their accounts.

NATIONAL STUDENT LOAN DATA SYSTEM (NSLDS)

The U.S. Department of Education provides a website which gives students Internet access to information about any Federal Title IV financial aid they have received. The website (www.nsls.ed.gov) is part of the NSLDS. The NSLDS maintains records on Federal Family Education Loan Programs, Federal Direct Loans, Perkins Loans, Pell Grants, and loan or grant overpayments. Using this website, students can obtain complete information on the federal loans and grants they have received.

ADMISSIONS

APPLICATION PROCEDURES

Application materials may be obtained on-line or by contacting the Office of Graduate Admission. Prospective students applying to Loyola's graduate programs should refer to the admission section under each department for specific application requirements. All required materials should be sent directly to:

Office of Graduate Admission
Loyola College in Maryland
4501 North Charles Street, HU 215
Baltimore, MD 21210-2699

Telephone: 410-617-5020; 800-221-9107, x5020
Fax: 410-617-2002
On-Line: <http://www.loyola.edu/graduate/>
E-Mail: graduate@loyola.edu

The following documents are required by **all** programs:

- Completed/signed application form;
- Nonrefundable \$50 application fee;
- Personal statement;
- Official transcripts from **all** post-secondary institutions that have awarded the applicant a bachelor's, master's, or doctoral degree or advanced certificate. International applicants must submit transcripts, along with an English translation, and equivalency assessments from all colleges attended (see International Students under Academic Regulations and Policies);
- Official standardized test score reports (required/recommended tests vary by program);
- Letters of recommendation (number required varies by program);
- Resume or vitae;

- TOFEL Score Report: Required only if English is not the applicant's native language. Official scores must be sent directly from testing agency; unofficial scores may be sent with application. Loyola's institution code is 5370.
- Transcripts from studies not conducted in English must be submitted with a certified English translation and equivalency from an evaluation agency such as World Education Services (www.wes.org).

It is the policy of department admission committees to give promising applicants the opportunity to undertake graduate work. A careful examination of all of an applicant's qualifications precedes every admission decision. The committees look for previous academic achievement by considering an applicant's undergraduate and graduate records. The number of acceptable candidates may exceed the number of spaces available, and the decision of the Admission Committee is final.

Students accepted for graduate work will be advised in writing. Students will also be informed of any undergraduate courses or prerequisites requiring completion before commencing graduate work. A faculty adviser who assists in planning a program of study will be assigned, and students are responsible for discussing any special needs they may have with their adviser.

Details on the criteria for admission in each department can be found in the departmental chapters which follow.

APPLICATION DEADLINES

Students will not be allowed to register for courses unless officially admitted to a program. Priority will be given to applications received by stated deadlines. Applications received after deadlines may be reviewed on a space-available basis or deferred by an admission committee for review the next available semester.

FALL SEMESTER**College of Arts and Sciences**

Education (excluding Montessori) June 1

Montessori Education
Academic Year Programs May 1
Affiliated AMI Institutes October 1
Multi-Summer Format Summer entry only

Engineering Science September 1

Modern Studies September 1

Pastoral Counseling
Ph.D. February 1
M.A./M.S./C.A.S. April 1

Psychology*
Psy.D. January 1
M.A. March 15
M.S. April 15
C.A.S./Master's Plus July 15

Speech-Language Pathology
M.S. February 1
C.A.G.S. August 1

Sellinger School of Business and Management

MBA/MSF August 20
Executive MBA August 20
MBA Fellows August 20

SPRING SEMESTER**College of Arts and Sciences**

Education (excluding Montessori) October 1

Montessori Education Fall/Summer entry only

Engineering Science January 1

Modern Studies January 1

Pastoral Counseling
Ph.D. Fall entry only
M.A./M.S./C.A.S. November 1

Psychology*
Psy.D. Fall entry only
M.A. Fall entry only
M.S./C.A.S./Master's Plus November 15

Speech-Language Pathology
M.S. Fall entry only
C.A.G.S. December 1

Sellinger School of Business and Management

MBA/MSF December 20
Executive MBA Fall entry only
MBA Fellows Fall entry only

SUMMER SESSIONS**College of Arts and Sciences**

Education (excluding Montessori) March 1

Montessori Education
Academic Year Programs Fall entry only
Affiliated AMI Institutes Fall entry only
Multi-Summer Format May 1

Engineering Science May 15

Modern Studies May 15

Pastoral Counseling
Ph.D. Fall entry only
M.A./M.S./C.A.S. April 15

Psychology*	
Psy.D.	Fall entry only
M.A.	Fall entry only
M.S./C.A.S.	April 15

Speech Language Pathology	
M.S.	Fall entry only
C.A.G.S.	May 1

Sellinger School of Business and Management

MBA/MSF	May 20
Executive MBA	Fall entry only
MBA Fellows	Fall entry only

* After these dates, other applicants may be considered on a space-available basis.

APPLICATION MATERIALS

The application materials required for specific graduate programs are listed below:

Graduate Programs in Education (excluding Montessori)

- Completed/signed application form;
- Nonrefundable \$50 application fee;
- Official transcripts from each college or university attended;
- Essay responding to questions on application form;
- PRAXIS I scores sent directly from Educational Testing Service. Loyola's Institutional Code is RA5370 (required only for teacher certification students);
- International student supplemental documents (required only if a student visa is needed);
- Professional Reference (optional for all programs, except School Counseling which requires submission of reference form).

Graduate Programs in Montessori Education

- Completed/signed application form;
- Nonrefundable \$50 application fee;
- Official transcripts from each college or university attended;
- Resume or vitae;
- Three recommendations (professional only);
- Essay responding to questions on application form;
- International student supplemental documents (required only if a student visa is needed).

Graduate Program in Engineering Science

- Completed/signed application form;
- Nonrefundable \$50 application fee;
- MES Introductory Course Waiver Request Form (required to waive four introductory courses);
- Official transcripts from each college or university attended;
- Two recommendations (professional references only);
- Essay responding to questions on application form;
- International student supplemental documents (required only if a student visa is needed).

Graduate Program in Modern Studies

- Completed/signed application form;
- Nonrefundable \$50 application fee;
- Official transcripts from each college or university attended;
- Essay responding to questions on application form;

- Personal, professional, or academic recommendation;
- International student supplemental documents (required only if a student visa is needed).
- An interview is ordinarily required of applicants.

Doctoral Program in Pastoral Counseling

- Completed/signed application form;
- Nonrefundable \$50 application fee;
- Official transcripts from each college or university attended;
- Resume and/or full curriculum vitae detailing personal competency and leadership potential;
- Six recommendations (professional/academic references only);
- Four essays responding to questions on application form;
- Clinical Summary Form (obtained from department);
- GRE scores sent directly from the Educational Testing Center. Loyola's C.E.E.B. code is 5370;
- International student supplemental documents (required only if a student visa is needed).

Ph.D. candidates applying for advanced standing must also submit the following:

- All graduate course syllabi from counseling courses;
- Clinical write-up of a current client and audio or video tape of same client. To ensure patient/clinician confidentiality, materials submitted must not divulge information that would reveal the identity of the individual;
- All clinical evaluations from practica, internships, etc.

Master's and Certificate Programs in Pastoral Counseling

- Completed/signed application form;
- Nonrefundable \$50 application fee;
- Official transcripts from each college or university attended;
- Resume and/or full curriculum vitae detailing personal competency and leadership potential;
- Three completed recommendation forms;
- Personal essay responding to question on application form;
- International student supplemental documents and TOEFL scores (required only if a student visa is needed).

Master's and Doctoral Programs in Psychology

- Completed/signed application form;
- Nonrefundable \$50 application fee;
- GRE scores sent directly from Educational Testing Service (General Test required; Subject Test optional). Loyola's C.E.E.B. code is 5370;
- Official transcripts from each college or university attended;
- Resume or vitae;
- Three recommendations (professional/academic references only);
- Essay responding to questions on application form;
- International student supplemental documents (required only if a student visa is needed).

Certificate of Advanced Study/ Master's Plus in Psychology

- Completed/signed application form;
- Nonrefundable \$50 application fee;
- Official transcripts from each college or university attended;
- Resume or vitae;
- One recommendation (professional/academic references only);
- Essay responding to questions on application form;
- International student supplemental documents (required only if a student visa is needed).

Master's Program in Speech-Language Pathology/Audiology

- Completed/signed application form;
- Nonrefundable \$50 application fee;
- GRE scores sent directly from the Educational Testing Center. Loyola's C.E.E.B. code is 5370;
- Official transcripts from each college or university attended;
- Resume or vitae (if currently employed);
- Three recommendations (professional/academic references only);
- Essay responding to questions on application form;
- International Student Supplemental Form (required only if a student visa is needed).

Certificate of Advanced Graduate Study in Speech-Language Pathology/Audiology

- Completed/signed application form;
- Nonrefundable \$50 application fee;
- Official transcripts from each college or university attended;
- Resume or vitae (if currently employed);
- One recommendation (professional/academic references only);
- Essay responding to questions on application form;
- International student supplemental documents (required only if a student visa is needed).

Graduate and Executive Business Programs

- Completed/signed application form;
- Nonrefundable \$50 application fee;
- GMAT scores sent directly from the Educational Testing Center. Individuals with outstanding grade point averages plus sufficient work experience and/or an advanced degree may be eligible for a GMAT waiver. Loyola's C.E.E.B. code is 5370;
- Official transcripts from each college or university attended;
- Resume or vitae;
- Essay responding to questions on application form;
- Letters of recommendation (three required for Executive Programs);
- Interview with program director (required for Executive Programs only);
- International student supplemental documents (required only if a student visa is needed).

COLLEGE OF ARTS AND SCIENCES EDUCATION

OFFICE: Beatty Hall, Room 104

TELEPHONE: 410-617-5094/5095

CHAIR: Victor R. Delclos, Professor

GRADUATE PROGRAM COORDINATORS

Administration and Supervision: Donald J. Reitz

Curriculum and Instruction: Michael O'Neal

Educational Technology: David Marcovitz

Reading: Robert Peters

School Counseling: Lee J. Richmond

Science Education Program: Mary B. Hyman

Special Education: Elana Rock

Teacher Education Programs: Victor R. Delclos

MONTESSORI GRADUATE PROGRAM

Director: Sharon L. Dubble

Washington Montessori Institute at Loyola College:

Director of Training (Elementary Level): Kay Baker

Director of Training (Primary Level):

Janet McDonell

INTERNSHIP COORDINATORS

Field Experience: Jack Woodward

Professional Development Schools: Robert Chapman III; Peggy Golden; Kathleen Sears; Vickie Swanson

School Counseling: Thelma Daley

Special Education: Diane C. Fadely

PROFESSORS: Victor R. Delclos; Donald B. Hoffer (emeritus); Donald J. Reitz; Lee J. Richmond; Beatrice E. Sarlos (emerita)

ASSOCIATE PROFESSORS: Joseph Mary Donohue, S.N.D.deN. (emerita); Bradley T. Erford; L. Mickey Fenzel; Joseph Procaccini; Sharyn Simpson Rhodes; Elana E. Rock

ASSISTANT PROFESSORS: Marie Celeste (visiting); Debby I. Deal; David Marcovitz; Cheryl Moore-Thomas; Michael L. O'Neal; Lisa C. Schonberger; H. Lovell Smith; John J. Vacca

INSTRUCTOR: Catherine Castellan

ADJUNCT FACULTY: Joyce Agness; Kathleen P. Bands; Maureen Beck; Lisa Boarman; JoAnn Bowsbey; Nancy C. Briganti; E. Niel Carey; Wayne Carmean; Gwendolyn Clark; Thomas A. Custer; Susan Edwards; Morton M. Esterson; Robert Gabrys; Susan A. Gallagher; Judith Glass; Cynthia Hardie; William R. Harrington; Debra R. Henninger; Katherine Johnson; Bernard J.

Keene; Edward Kerns; Clare Krufft; Lynn Linde; Peter McCallum; Martin Mullaney; Lynne Muller; David R. Myers; Eileen M. Oickle; Patricia R. Ourand; Robert Peters; Mary Petrovick; Christy A. Pierce; Roger Plunkett; Sam Polack; Maryanne Ralls; Ronald Redmond; Christine Regner; Louis M. Reitz, S.S.; Kristine Scarry; Jacob Schuchman; James F. Skarbek; Celeste A. Smith; James Snow; Christopher Sny; Joseph Stevens; Gail Stone; Martin Tillett; Ellen Tracy; Phyllis Utterback; William Wentworth; Leslie Wilson; Jack Woodward

The Reverend Peter-Hans Kolvenbach, S.J., Superior General of the Society of Jesus, has described the goal of Jesuit Education with the following words: "We aim to form...men and women of competence, conscience and compassionate commitment." In recognition of our connection to the Jesuit mission of the Loyola College community, the Education Department has adopted the three words, Competence, Conscience, Compassion as its motto.

MISSION

Within the Jesuit traditions of intellectual excellence, social justice, ethical responsibility, and *cura personalis*, the Education Department promotes leadership and scholarship in the development of teachers, counselors, administrators, and other educators.

The Education Department offers programs leading to a Master of Arts (M.A.), Master of Education (M.Ed.), the Certificate of Advanced Study in School Management (C.S.M.), and the Certificate of Advanced Study in Education (CASE). These programs are designed to advance the study of education as an academic discipline and to further the professional development of teachers, administrators, and other educational personnel in public and independent schools. The department seeks to:

- Encourage initiative, reflection, and the development of sound critical judgement;
- Expose students to research-oriented experiences that will increase their competence in the use of source materials and the examination of evidence in the contemporary study of education;

- Provide supervised internship experiences; and
- Provide professional assistance to schools and school districts.

ADMISSION CRITERIA

The Education Department seeks graduates from accredited institutions of higher learning who demonstrate significant academic ability. A minimum QPA of 3.000 in undergraduate work or a master's degree from an accredited institution is required for full acceptance. Provisional acceptance may be granted for students with a QPA between 2.750 and 3.000. Letters of recommendation, standardized tests, or a personal interview may be required. Applicants for teacher certification are required to submit evidence of a passing score (based on the Maryland cutoff level) on the PRAXIS I examination.

Detailed admission information (application procedures, required documents, etc.) may be found in the Admission Chapter of this catalogue.

APPLICATION DEADLINES

M.Ed./M.A./CASE (excluding Montessori)

Fall Semester	June 1
Spring Semester	October 1
Summer Sessions	March 1

Applications may be submitted at any time and are reviewed on a rolling basis throughout the year. While students may be accepted after a deadline has passed, course availability cannot be guaranteed.

M.Ed./CASE Montessori Education

Full-Time Academic Year Programs	May 1
Multi-Summer Format Programs	May 1
Affiliated AMI Institutes	October 1

See Montessori Education section for admissions requirements in addition to those listed here.

CREDITS REQUIRED

Specific requirements for each degree and program are listed below. In-service course credits will not be counted toward completion of a master's degree, certificate of advanced study, or teacher certification requirements.

ACADEMIC PROBATION/DISMISSAL

It is the student's responsibility to make certain that the minimum QPA requirement of 3.000 is maintained. Students who fall below this level of achievement will be placed on probation for one semester. Failure to raise the QPA above 3.000 in the following semester may result in dismissal from the program. The accumulation of two C/C+ (2.000/2.330) grades or the receipt of one F (0.000) will result in dismissal. Dismissal may also result from excessive withdrawals, academic dishonesty, or other unethical or unprofessional conduct reflecting upon a student's ability to enter into the academic or professional field in which the degree is being offered.

A student has the right to appeal an academic dismissal. A written request for appeal must be made to the department chair within 30 days after notice of dismissal. The appeal should include any information deemed appropriate to the case. Students have the right to appear in person before a review panel to present their cases.

If a dismissal involves a grade appeal, both the dismissal and the grade appeal must be filed within 30 days of the close of the semester. Students who have been academically dismissed and who are in the process of an appeal may not register for future terms until the appeal is resolved.

MASTER OF ARTS

This option is designed for individuals who wish to undertake a significant scholarly project as part of their degree program. This option is especially appropriate for those who plan to pursue an advanced degree beyond the master's level. Students complete a six-credit thesis project under the guidance of an adviser in place of six general elective credits. Guidelines for the development and completion of the proposal and thesis are available from departmental advisers.

WAIVERS

Any specific course requirement may be waived by a student's adviser based upon prior completion of graduate coursework in the same content area. The student must request a waiver in writing. The adviser's written approval will be sent to the

student and the Records Office. In the event a course requirement is waived, an elective course must be substituted in its place. No more than three courses may be waived in any graduate program.

GRADUATE STUDIES COURSES

Within a degree, teacher certification, or certificate (CASE) program, students may include two courses (GS/PW) offered through the Graduate Studies program, provided written permission is granted by the student's adviser **prior** to taking the course. In-service credits may not be included in a degree program leading to a Master of Arts (M.A.) or Master of Education (M.Ed.).

ADMINISTRATION AND SUPERVISION

Provides opportunities for the development of a sound theoretical basis as well as effective management techniques and tools for practicing and future educational leaders. Programs are built on the fundamental assumption that administrators and supervisors function in complex organizations which must be sensitive to people and changing environments.

Every course will be based on research, and students will be expected to read and analyze current research; blend theory and practice as it relates to the course; emphasize personal dimensions by focusing on leader behaviors, interpersonal skills, and the demands and rights of a multicultural society; and include a problem-solving orientation to encourage thinking, involvement, and relevance to education. A course or courses taken as a special (non-matriculating) student will not be counted later as part of a matriculated degree or certificate program.

Programs:

Master of Arts (M.A.) – 45 credits (includes 6 thesis credits)

Master of Education (M.Ed.) – 42 credits

Certification in Administration and Supervision – 18 credits in addition to an existing master's degree

Certificate of Advanced Study in School Management (C.S.M.) – 30 credits beyond master's degree

Certificate of Advanced Study in Education (CASE) – 30 credits beyond master's degree

Upon completion of the program, students are eligible for certification as Administrator I (Assistant in Administration, Supervisor in Central Administration, Supervisor in Instruction). To be certified as Administrator II (School Principal), students must successfully complete the School Leadership Licensure Assessment which will be administered three times a year at testing centers throughout the State. Copies of Registration Bulletin can be obtained from Loyola's Career Development and Placement Center located in DeChiaro College Center, West Wing, First Floor, or by calling the Educational Testing Service at (609) 771-7395.

MASTER OF EDUCATION (M.ED.)

Thirty-six credits of required coursework must be completed:

- AD 662 Supervision and Staff Development
- AD 668 The Law, the Courts, and the School
- AD 674 Human Relations in School Management
- AD 680 Leadership Seminar (2 credits)*
- AD 681 Organization Development
- AD 682 Technology for School Administrators
- AD 683 Leadership: Theories and Practices (4 credits)*
- AD 684 Resource Management
- AD 776 Theory and Research on Teaching
- ED 600 Foundations of Research in Education**
- ED 601 Philosophy and Education*
- ED 650 Curriculum Theories and Practices

After all of the above courses have been taken, the following two courses must be taken to complete the degree requirements:

- AD 686 School Assessment: Issues and Skills
- AD 687 Internship in Administration and Supervision

* Should be taken **early** in the program

** ED 600 is a prerequisite for all remaining courses and must be taken first.

Private School Management

To provide educational opportunities of special interest to private school administrators, faculty members, board members, and other personnel, Loyola College established the Institute of Private

Education. Graduate students may elect to take a program in private school management. In addition to the selection of courses described for the master's degree concentration in administration and supervision, the following four courses focusing upon private school issues may be taken as alternatives with the consent of an adviser:

AD 670 The Law, the Courts, and Private Schools

AD 676 Fiscal Planning and Budgeting in the Private School

AD 677 Organization and Administration of Private Schools

ED 660 Curriculum Development in the Private School

CERTIFICATION IN ADMINISTRATION AND SUPERVISION

A person with a master's degree from an accredited institution and 27 months of satisfactory teaching performance or satisfactory performance as a specialist may complete certification requirements by earning 18 semester hours of graduate coursework, a sample of which follows:

School Administration

AD 677 Organization and Administration of Private Schools

AD 681 Organizational Development

AD 683 Leadership: Theories and Practices (3–4 credits)

Clinical and/or Instructional Supervision

AD 662 Supervision and Staff Development

Curriculum Design

ED 650 Curriculum Theories and Practices

ED 660 Curriculum Development in the Private School

Group Dynamics

AD 674 Human Relations in School Management

School Law

AD 668 The Law, the Courts, and the School

AD 669 Constitutional Law and the Schools

AD 670 The Law, the Courts, and Private Schools

Practicum/Internship

AD 687 Internship in Administration and Supervision (*Prerequisite: 15 credits of completed coursework.*)

Students should apply and meet with their adviser to develop their programs.

CERTIFICATE OF ADVANCED STUDY IN EDUCATION (CASE)

Advanced graduate work beyond the master's degree may be pursued in specific program areas. The 30-credit program leads to a Certificate of Advanced Study in Education (CASE). Requirements are:

- 18 hours of coursework in a specific area of concentration;
- 12 hours of coursework in other areas.

Students must meet with an adviser prior to beginning the CASE.

CERTIFICATE OF ADVANCED STUDY IN SCHOOL MANAGEMENT (C.S.M.)

Provides advanced academic preparation and training in the field of administration and supervision. The advanced certificate prepares graduate students to assume middle and high level administrative, supervisory, and staff positions in public and private schools, school systems, and institutions of higher education. The program consists of 30 hours of graduate study beyond the master's degree. Upon successful completion of the program, the student is awarded the Certificate of Advanced Study in School Management. Flexibility in individual student program development is anticipated, but it is expected that students build their program in the following areas:

- Courses in Leadership: Instructional, Management, and Organizational (24–27 credits)
- Internship (3–6 credits)

Students design their individual programs in collaboration with their advisers. In addition to the learning experiences listed above, students may include appropriate courses offered by other grad-

uate programs within the field of education (e.g., guidance, special education) or in other disciplines (e.g., psychology, business administration).

The master's program in administration and supervision has been approved by the Maryland State Department of Education using recognized state or national standards.

CURRICULUM AND INSTRUCTION

Programs:

Master of Arts (M.A.) – 39 credits (includes 6 thesis credits in place of general electives)

Master of Education (M.Ed.) – 39 credits

Certificate of Advanced Study in Education (CASE) – 30 credits beyond master's degree

Students may also focus in the areas of Science Education or Educational Technology.

MASTER OF EDUCATION (M.ED.)

The emphasis of this program is on the planning, implementation, and evaluation of teaching and learning. Graduate study consists of courses, field studies, internships, seminars, and workshops blending theory and practice.

Program courses consist of a departmental core, a program core, and general electives. Electives provide flexibility for individualizing each student's program toward effective and meaningful study.

Individuals seeking certification in teaching may do so within the framework of this program in close consultation with an adviser. A personalized advising system allows students continuous access to consultation at all stages of their program (see Teacher Education section).

Departmental Core (6 credits)

ED 600 Foundations of Research in Education
ED 601 Philosophy and Education

Curriculum and Instruction Core (18 credits)

ED 621 Learning Theory
ED 650 Curriculum Theories and Practices

ED 651 Evaluation and Assessment of Curriculum and Instruction

ED 658 Seminar in Curriculum and Instruction

ED 676 Theory and Research on Teaching

ET 605 Introduction to Educational Technology

General Electives (15 credits)

Electives are selected from offerings in specific content areas or other departmental programs and used to customize the program of study to the student's particular needs and interests.

Science Education Focus (39 credits)

Graduate study in curriculum and instruction with a focus on science content is a 39 credit master's program designed for elementary and middle school teachers. Teachers will earn the degree of Master of Education (M.Ed.) in Curriculum and Instruction. Six courses in this program will be science content courses with emphasis on process skills and hands-on activities. The remaining seven required courses are designed specifically for those enrolled in the program and incorporate science content topics and issues.

Departmental Core (6 credits)

ED 600 Foundations of Research in Education
ED 601 Philosophy and Education

Curriculum and Instruction Core (15 credits)

ED 621 Learning Theory
ED 650 Curriculum Theories and Practices
ED 651 Evaluation and Assessment of Curriculum and Instruction
ED 658 Seminar in Curriculum and Instruction
ET 605 Introduction to Educational Technology

Science Content (18 credits)

Elementary/Middle Level (select from the following):

ED 700 Earth Science I
ED 702 Earth Science II
ED 703 Life Science
ED 704 Physical Science I

ED 705 Physical Science II
 ED 706 Environmental Field Study
 ED 712 Science Teaching for 2061

Educational Technology Focus (39 credits)

The Master of Education (M.Ed.) in Curriculum and Instruction with a focus on educational technology prepares individuals to take leadership roles on school and district levels in the use of technology to enhance traditional instruction and to find ways that technology can enable school change. It blends a hands-on approach to technology with educational foundations in curriculum, learning theory, and educational research.

Departmental Core (6 credits)

ED 600 Foundations of Research in Education
 ED 601 Philosophy and Education

Curriculum and Instruction Core (15 credits)

ED 621 Learning Theory
 ED 650 Curriculum Theories and Practices
 ED 651 Evaluation and Assessment of Curriculum and Instruction
 ED 658 Seminar in Curriculum and Instruction
 ED 676 Theory and Research on Teaching

Technology Core (18 credits)

Choose six of the following:

ET 605 Introduction to Educational Technology
 ET 610 Curricular Applications of Technology
 ET 620 Multimedia Design in the Classroom
 ET 630 Telecommunications in the Classroom
 ET 631 Distance Education
 ET 640 Adaptive/Assistive Technology for Education
 ET 680 The Role of the Technology Specialist
 ET 681 Technology and School Change
 ET 690 Educational Technology Seminar

Curriculum Studies (9 credits)

ED 650 Curriculum Theories and Practices
 ED 651 Evaluation and Assessment of Curriculum and Instruction

One of the following: (3 credits)

ED 647 Curriculum Policy Studies
 ED 648 Field Study in Curriculum
 ED 652 Curriculum Networking
 ED 658 Seminar in Curriculum and Instruction
 ED 659 Curriculum Internship
 ED 676 Theory and Research on Teaching

CERTIFICATE OF ADVANCED STUDY IN EDUCATION (CASE)

Advanced graduate work beyond the master's degree may be pursued in specific program areas. The 30-credit program leads to a Certificate of Advanced Study in Education (CASE). Requirements are:

- 18 hours of coursework in a specific area of concentration;
- 12 hours of coursework in other areas.

Students must meet with an adviser prior to beginning the CASE.

EDUCATIONAL TECHNOLOGY

Programs:

Master of Arts (M.A.) – 39 credits
 (includes 6 thesis credits)

Master of Education (M.Ed.) – 36 credits

Technology is playing an increasing role in our schools. Schools and districts are spending millions of dollars on technology, and leadership is needed to ensure that this investment is used to benefit education. Technology leaders must be masters of the change process as well as experts in the technology. The program integrates hands-on applications of educational technology with practical and theoretical perspectives of change, school reform, staff development, and ethical considerations of technology in the schools. Methods of infusing technology into the teaching and learning process will be modeled throughout the program.

This program is geared toward those wishing to become technology specialists or technology leaders on the school, district, and national levels.

MASTER OF EDUCATION (M.ED.)

Departmental Core (9 credits)

ED 600 Foundations of Research in Education
 ED 608 Educational Innovations
 AD 662 Supervision and Staff Development

Technology Core (24 credits)

Choose eight of the following:

ET 605 Introduction to Educational Technology
 ET 610 Curricular Applications of Technology
 ET 620 Multimedia Design in the Classroom
 ET 630 Telecommunications in the Classroom
 ET 631 Distance Education
 ET 640 Adaptive/Assistive Technology for Education
 ET 680 The Role of the Technology Specialist
 ET 681 Technology and School Change
 ET 690 Educational Technology Seminar

Required Internship (3 credits)

ET 691 Educational Technology Internship

MASTER OF ARTS (M.A.)

Departmental Core (9 credits)
 Technology Core (24 credits)
 ET 699 Thesis Seminar (6 credits)

COMPUTER STUDIES

Computer studies is nine credits in coursework that may be earned in conjunction with a nontechnology degree or as a nonmatriculating student. It is designed to help individuals make use of computer technology in the educational process. Students earn a certificate of completion by taking three technology classes from the technology core (see master's programs above). Students receive the Computer Studies Certificate upon completion of the coursework and submission of an application for the certificate to the Education Department.

SCHOOL COUNSELING**Programs:**

Master of Arts (M.A.) – 48 credits
 Master of Education (M.Ed.) – 48 credits
 Certificate of Advanced Study in Education (CASE) – 30 credits beyond master's degree

Prepares students for careers as professional counselors who work in elementary and/or secondary school settings. Throughout the course of study, students have the opportunity to develop a sound theoretical foundation and acquire effective techniques for counseling school-aged youth. Upon successful completion of the program, students are eligible for state certification as a school counselor. In addition to schools, various public and private agencies outside of the educational field are interested in obtaining the services of counselors.

The course of instruction involves the successful completion of 48 credits of study on the graduate level, including a practicum of 100 hours and an internship of 600 hours. Students must take a minimum of nine credits in counseling, and all electives must be approved by the adviser.

The 600-hour internship may be completed in one semester (GC 728), two semesters (GC 722, GC 723) or in four semesters (GC 730, GC 731). Students who wish to complete the 600 hours in one semester must obtain approval from their practicum instructor and the director of the school counseling program.

ED 600 Foundations of Research in Education
 ED 606 Educational Testing and Measurement
 GC 700 Introduction to School Counseling
 GC 701 Techniques of Educational Counseling
 GC 703 Lifestyle and Career Development and Decision-Making
 GC 704 Theories of Counseling
 GC 706 Group Counseling in Schools
 GC 708 Cross Cultural Counseling
 GC 712 Human Development through the Life Span
 GC 791 School Counseling Practicum
 GC 792 Professional Issues and Ethics in Counseling
 Internship (600 hours)
 Electives (9 credits)

Students seeking the Master of Arts in School Counseling must substitute six of the elective credits for thesis credits.

This program has been approved by the Maryland State Department of Education using recognized state or national standards. The program is fully accredited by the Council for the Accreditation of Counseling and Related Educational Programs (CACREP).

CERTIFICATE OF ADVANCED STUDY IN EDUCATION (CASE)

Provides advanced graduate work beyond the master's degree in an organized, 30-credit program leading to a Certificate of Advanced Study in Education. Requirements are:

- A minimum of twelve hours of coursework in counseling (general).
- Twelve hours of coursework in specialized areas such as career counseling, counseling supervision, transcultural counseling, family counseling, substances, and psychoeducational assessment.
- Six hours of elective coursework in any area. Internships may be suggested.

Special arrangement for course selection will be made in conjunction with a student's adviser.

MONTESSORI EDUCATION

Programs:

Master of Education (M.Ed.) – 36 credits
 Certificate of Advanced Study in Education (CASE) – 30 credits beyond master's degree

PURPOSE AND SCOPE

The goal of the graduate program in Montessori education is to guide adults as they prepare for the work and the responsibility of helping each child to develop the fullness of his or her potential. The program provides students with opportunities to develop an understanding of a child's stages of development and the different conditions and strategies necessary to support development at each stage.

The Washington Montessori Institute (WMI) at Loyola College in Maryland offers students the choice of specialized graduate study in Montessori Education at either the primary level (ages 3–6) or elementary level (ages 6–12). Graduates receive both the internationally recognized Association Montessori Internationale (AMI) diploma and the Master of Education (M.Ed.). The program is offered in a full-time academic year or multi-summer format (over three or four consecutive summers).

Students may qualify for Maryland state teacher's certification in early childhood or elementary education. Requirements include coursework in content areas (based on analysis of undergraduate transcript); additional hours of student teaching/practicum; and satisfactory scores on the Praxis Exams. Interested students should contact a departmental adviser regarding the certification option.

A master's degree in Montessori education does not lead directly to state certification. Students must submit official transcripts and course descriptions directly to their respective State Departments of Education to determine if courses satisfy specific certification requirements.

ADMISSION

Students seeking admission to the degree program in Montessori education must meet departmental admission criteria. In addition, demonstrated professional competence and/or academic ability as evidenced by letters of recommendation is required. A personal interview may also be requested. The program admits full-time students only. Priority consideration is given to applications received before **May 1**.

PREREQUISITE COURSE

Candidates for the Montessori elementary program must either have an AMI primary diploma or must successfully complete the prerequisite course. The prerequisite course (MO 599) is not part of the credit hour requirements of the M.Ed. and requires an additional fee.

Refund Policy

prior to first class meeting	100%
during first week of classes	50%

Subsequently, no refund is made.

COURSE OF STUDY

The M.Ed. in Montessori Education consists of 36 graduate credits plus oral comprehensive examinations. The coursework is divided into two parts. The Montessori courses comprise the requirements for the AMI diploma. These courses total 27 credit hours and are listed in the catalogue with the course key MO. The education core courses are designed to broaden the student's knowledge of research and trends in the field of education. These courses total nine credit hours and are listed with the ED or RS course key.

Montessori Course (AMI)

During the first two semesters, students are fully engaged in Montessori study, as they complete all AMI requirements. Although the Montessori courses are listed as discrete courses for purposes of registration, the actual program during these two semesters is presented as an integrated program of child development, methodology, practice, observation, and practice teaching.

At the end of these two semesters, if the AMI written examinations are passed and all requirements to date have been completed, grades for 27 graduate credits (MO designation) are posted on the student's Loyola transcript. In addition, if oral comprehensive examinations are successfully completed, the AMI diploma is awarded.

Education Core Courses

The three core courses are offered in a special intensive summer session and students must complete two independent study papers as part of Advanced Study in Education (ED 625). Students have the option of taking the three education core courses in any combination during the regular course schedule. All core courses must be completed within four semesters following completion of the Montessori courses.

M.Ed., Montessori Infant Education (Birth–Age 3) (available only with off-site AMI Institute)

- ED 600 Foundations of Educational Research
- ED 625 Advanced Study in Education
- MO 637 Psychology and Philosophy of the Montessori Method
- MO 638 Child Growth and Development I
- MO 639 Child Growth and Development II
- MO 640 Creating Healthy, Safe Environments for Infants
- MO 641 Creating Healthy, Safe Environments for Toddlers
- MO 642 Developmentally Appropriate Practices for Infants
- MO 643 Developmentally Appropriate Practices for Toddlers
- MO 644 Working with Parents and Families of Young Children
- MO 645 Montessori Observation and Practicum
- RS 769 Teaching Students with Special Needs

Note: This program is **not** approved for V.A. benefits.

M.Ed., Montessori Primary Education (Ages 3–6)

- ED 600 Foundations of Research in Education
- ED 625 Advanced Study in Education
- MO 628 Practicum
- MO 630 Human Relations and Self Awareness among Young Children
- MO 631 Language Arts/Reading Curriculum and Instruction
- MO 632 Mathematics and Science Curriculum and Instruction
- MO 633 Creative Activities (Music, Art, Movement, and Drama)
- MO 634 Foundations of the Montessori Method
- MO 635 Perceptual-Motor Development
- MO 636 Teaching Strategies and Social Development
- RS 769 Teaching Students with Special Needs (Focus: Grades K–8)

M.Ed., Montessori Elementary Education (Ages 6–12)

- ED 600 Foundations of Research in Education
- ED 625 Advanced Study in Education
- MO 646 Foundations of the Montessori Method
- MO 647 Montessori Classroom Methods
- MO 648 Laboratory: Using Montessori Materials

- MO 649 Language Curriculum and Instruction for the Elementary Years
- MO 650 Art Curriculum and Instruction for the Elementary Years
- MO 651 Mathematics Curriculum and Instruction for the Elementary Years
- MO 652 Physical and Biological Science Curriculum and Instruction for the Elementary Years
- MO 653 Social Studies Curriculum and Instruction for the Elementary Years
- MO 654 Music/Movement Curriculum and Instruction for the Elementary Years
- MO 655 Practicum
- RS 769 Teaching Students with Special Needs (Focus: Grades K–8)

CERTIFICATE OF ADVANCED STUDY IN EDUCATION (CASE)

Advanced graduate work beyond the master's degree may be pursued in either Montessori primary or elementary education. The 30-credit program leads to a Certificate of Advanced Study in Education (CASE). Requirements are:

- 27 credit hours of coursework in the Montessori concentration;
- 3 credit hours developing an independent research project; and
- Comprehensive examinations.

READING

Programs:

- Master of Education in Reading, Reading Teacher Development (M.Ed.) – 33 credits
- Master of Education in Reading, Reading Specialist (M.Ed.) – 39 credits
- Certificate of Advanced Study in Education (CASE) – 30 credits beyond master's degree

Provides students with a keen understanding of reading and specific strategies directly applicable to the classroom and/or clinic situation. The program is broad-based, both developmental and clinical in its orientation. Students become familiar with teaching and assessment strategies suitable for students ranging from the highly able to

the severely disabled. Students can enroll in courses related to reading programs at the elementary or secondary levels.

Individuals seeking certification in elementary or secondary level teaching may do so within the framework of this program in close consultation with an adviser. A personalized advising system allows students continuous access to consultation at all stages of their program (see Teacher Education section).

M.ED., READING TEACHER DEVELOPMENT (33 CREDITS)

Designed for the certified teacher who wishes to become more proficient in developmental reading instruction at the elementary or secondary levels. Typical programs are as follows:

Elementary Focus

Departmental Core (3 credits)

ED 600 Foundations of Research in Education

Program Requirements (24 credits)

- RS 510 Foundations of Reading Instruction
- RS 722 The Use of Literature in the Language Arts Program
- RS 723 Language Development
- RS 731 Classroom Techniques in Reading
- RS 736 Classroom Techniques in Written Expression
- RS 737 Assessment and Diagnosis of Reading Disorders for Students with Special Needs
- RS 738 Remedial Reading and Writing Techniques for Students with Special Needs
- RS 759 Current Issues in Reading and Language Arts

General Electives (6 credits)

This program includes all Maryland approved reading courses required for recertification in elementary education.

Secondary Focus*Departmental Core (3 credits)*

ED 600 Foundations of Research in Education

Program Requirements (24 credits)

RS 510 Foundations of Reading Instruction

RS 731 Classroom Techniques in Reading

RS 733 Introduction to Teaching Reading in the Content Area

RS 736 Classroom Techniques in Written Expression

RS 737 Assessment and Diagnosis of Reading Disorders for Students with Special Needs

RS 738 Remedial Reading and Writing Techniques for Students with Special Needs

RS 744 Reading, Writing, and Study Skills in the Content Area

RS 759 Current Issues in Reading and Language Arts

General Electives (6 credits)

This program includes all Maryland approved reading courses required for recertification in secondary education.

M.ED., READING SPECIALIST (39 CREDITS)

Designed for the certified teacher who wishes to concentrate in the area of reading remediation. The student completing this program satisfies course requirements for state certification as a reading specialist. A typical program is as follows:

Departmental Core (3 credits)

ED 600 Foundations of Research in Education

Elementary/Secondary (K–12) (33 credits)

RS 510 Foundations of Reading Instruction

RS 720 Human Growth and Development *or*

RS 723 Language Development

RS 731 Classroom Techniques in Reading

RS 737 Assessment and Diagnosis of Reading Disorders for Students with Special Needs

RS 738 Remedial Reading and Writing Techniques for Students with Special Needs

RS 739 Advanced Assessment and Diagnosis of Reading and Learning Disorders for Students with Special Needs

RS 740 Role of the Reading Specialist

RS 744 Reading, Writing, and Study Skills in the Content Area

RS 758 Practicum in Reading (Focus: Grades K–12)

RS 759 Current Issues in Reading and Language Arts

Reading, Speech, or Special Education Elective

This program has been approved by the Maryland State Department of Education using recognized state or national standards.

CERTIFICATE OF ADVANCED STUDY IN EDUCATION (CASE)

Advanced graduate work beyond the master's degree may be pursued in specific program areas. The 30-credit program leads to a Certificate of Advanced Study in Education (CASE). Requirements are:

- 18 hours of coursework in a specific area of concentration;
- 12 hours of coursework in other areas.

Students must meet with an adviser prior to beginning the CASE.

SPECIAL EDUCATION**Programs:**

Master of Education in Special Education (M.Ed.), Early Childhood Special Education (Birth to Age 5) – 36 credits and prerequisites (as needed)

Master of Education in Special Education (M.Ed.), Elementary/Middle (Grades 1–8) – 39 credits and prerequisites (as needed)

Master of Education in Special Education (M.Ed.), Secondary (Grades 6–12) – 39 credits and prerequisites (as needed)

Certificate of Advanced Study in Education (CASE) – 30 credits beyond master's degree

The M.Ed. in Special Education can be used to meet requirements for initial certification in special education at the elementary or secondary levels and is also appropriate for teachers seeking advanced professional development. The Early Childhood program is being prepared for review as a Maryland approved program. These special education graduate programs prepare both beginning and advanced professionals with full qualifications to provide effective services to students with disabilities and to take leadership roles in the field of special education. The programs emphasize legal issues, service delivery, classroom techniques, and advanced professional skills necessary to promote the provision of quality services to students with special needs.

Students from a variety of academic backgrounds and careers are eligible to apply to the graduate programs in special education. Students do not need to complete the prerequisite requirements before applying and being accepted into the master's programs. Once accepted, each student will meet with an academic adviser to develop an individualized program plan of prerequisite and program courses and experiences.

Students may demonstrate completion of prerequisite coursework at the undergraduate or graduate level. In addition, students may complete school-based experiences or demonstrate evidence of these experiences through teaching, volunteering, or serving in other capacities in regular and special education school programs. Students must demonstrate appropriate computer skills including word processing, Internet usage, and database searching. These skills may be assessed through personal interview, hands-on demonstration, or product illustration.

Students who have not completed the required coursework or mastered all of the prerequisite skills may be accepted into the program but will need to take the appropriate courses (or complete the appropriate experiences) before beginning program coursework. A noncredit computer workshop on uses of the Internet and database searching may be provided for students.

M.ED., EARLY CHILDHOOD SPECIAL EDUCATION

At the early childhood level, the program focuses on infants, toddlers, and young children from birth to age five.

Prerequisite courses are intended to provide key foundational coursework and early childhood experiences for all students, particularly those who are not currently certified in an area of education. If needed, prerequisite courses may be taken at the graduate or undergraduate level. Observation and participation, if required, may be completed through a variety of school-based, daycare, and early intervention experiences. These courses **do not count** as credits completed toward the degree requirements.

ED 636 Preprimary and Primary Curriculum
 RS 720 Human Growth and Development
 RS 782 Processes and Acquisition of Reading
 Observation and Participation in Early
 Childhood Special Education
 Observation and Participation in General
 Preschool Education
 Technology Usage for Research and Writing

Program Courses

ED 600 Foundations of Research in Education
 RS 751 Orientation to Early Childhood
 Special Education
 RS 752 Curriculum for Young Children with
 Special Needs at the Infant-Preschool Level
 RS 753 Assessment of Young Children with
 Special Needs at the Infant-Preschool Level
 RS 754 Parent-Professional Partnerships
 (Focus: Birth to Age 5)
 RS 780 Practicum for Students with
 Special Needs (Infant/Toddler)*
 RS 781 Practicum for Students with
 Special Needs (Preschool)*
 RS 823 Strategies for Communication
 Development (Focus: Birth to Age 5)
 RS 906 Developmental, Remedial, and
 Corrective Reading
 RS 911 Assessment, Diagnosis, and Evaluation
 of Learning and Behavior Problems
 RS 912 Instructional Planning, Adaptations,
 and Learning Strategies for Students
 with Special Needs
 RS 922 Neurodevelopmental Aspects of
 Early Childhood Disabilities

The Early Childhood program is being prepared for review as an approved program by the State of Maryland. Pending the outcome of the review process, course requirements may be changed in order to meet certification requirements.

* Practicum placements involve intensive experiences and teaching in schools or other programs serving young children. These placements require extended daytime availability.

M.ED., ELEMENTARY/MIDDLE (GRADES 1–8)

M.ED., SECONDARY (GRADES 6–12)

At the elementary/middle and secondary levels, the program focuses on students with high incidence disabilities including language or learning disabilities, emotional/behavioral disorders, and mild mental retardation. Differentiation of content area courses, age-specific course projects, and grade-appropriate practicum placements allow for specialization at the appropriate age/grade level.

Prerequisite Courses are intended to provide key foundational coursework and school experiences for all students, particularly those who are not currently certified in an area of education. Prerequisite courses may be taken at the graduate or undergraduate level. Observation and participation may be met through a variety of classroom experiences. These courses **do not count** as credits completed toward the degree requirements.

RS 720 Human Growth and Development

RS 733 Introduction to Teaching Reading in the Content Area (for Special Education Grades 6–12) *or*

RS 782 Processes and Acquisition of Reading (for Special Education Grades 1–8)

RS 761 Introduction to Special Education

Observation and Participation in Special Education

Observation and Participation in General Education

Technology Usage for Research and Writing

Program Courses

The following are required program courses to be completed in three phases.

Phase I

ED 600 Foundations of Research in Education

RS 905 Characteristics of Learners with Mild and Moderate Disabilities

RS 906 Developmental, Remedial, and Corrective Reading

RS 907 Developmental, Remedial, and Corrective Mathematics

RS 908 Comprehensive Language Development: Methods and Resources for Teaching Students with Special Needs

RS 909 Science and Social Studies: Content, Methods, and Modifications for Students with Mild and Moderate Disabilities *or*

RS 917 Instruction in Secondary Content Areas for Students with Mild and Moderate Disabilities

Phase II

RS 911 Assessment, Diagnosis, and Evaluation of Learning and Behavior Problems

RS 912 Instructional Planning, Adaptations, and Learning Strategies for Students with Special Needs

RS 913 Comprehensive Classroom Management for Teachers of Students with Special Needs

RS 914 Communication, Collaboration, and Consultation with Parents and Professionals Serving Students with Disabilities

RS 915 Diagnosis and Intervention in Reading Disorders *or*

RS 916 Promoting Successful Transitions to Postsecondary Settings for Students with Mild and Moderate Disabilities

Phase III

RS 918 Practicum I: Teaching Students with Special Needs*/**

RS 919 Practicum II: Teaching Students with Special Needs*/**

The elementary/middle and secondary programs have been approved by the Council on Exceptional Children (CEC) and by the Maryland State Department of Education using recognized state or national standards and include the Maryland

approved reading courses. This program leads to eligibility for Maryland certification in special education from the Maryland Approved Licensure Program using recognized state or national standards. Certification may be obtained to teach students grades 1–8 (elementary/middle) or grades 6–12 (secondary).

* Persons already certified in special education at the appropriate age/grade level may substitute elective courses for the two practicum experiences.

** Practicum placements involve intensive experiences and teaching in schools or other programs serving young children. These placements require extended daytime availability.

CERTIFICATE OF ADVANCED STUDY IN EDUCATION (CASE)

Advanced graduate work beyond the master's degree may be pursued in specific program areas. The 30-credit program leads to a Certificate of Advanced Study in Education (CASE). Requirements are:

- 18 hours of coursework in a specific area of concentration;
- 12 hours of coursework in other areas.

Students must meet with an adviser prior to beginning the CASE.

TEACHER EDUCATION

Programs:

Certification in Elementary Education
 Certification in Secondary Education

Provides professional coursework and experience required for initial teacher certification in Maryland for individuals who have completed a baccalaureate degree. Many credits earned in this program may be applied to a Master of Education (M.Ed.) in Curriculum and Instruction or Reading.

Students must meet with an adviser to have their transcripts reviewed, determine coursework for certification in either elementary education (grades

1–8) or secondary education (grades 7–12), and plan additional courses if the M.Ed. is desired.

Coursework in specific content areas and methods differs according to the area of certification. An internship consisting of field experience and student teaching concludes the certification coursework. Internships are completed in a professional development school and include performance-based portfolio assessment.

Elementary Education Certification

ED 621 Learning Theory
 ED 631 Classroom Techniques of Arithmetic
 ED 662 Assessment for the Classroom: Models, Techniques, and Procedures
 RS 720 Human Growth and Development
 RS 737 Assessment and Diagnosis of Reading Disorders for Student with Special Needs
 RS 761 Introduction to Special Education
 RS 782 Processes and Acquisition of Reading
 RS 783 Instruction of Reading
 RS 784 Materials of Reading
 Internship

Note: Undergraduate content requirements must be met in English, math, science, and social studies.

Secondary Education Certification

ED 612 Secondary Methods of Teaching
 ED 621 Learning Theory
 ED 662 Assessment for the Classroom: Models, Techniques, and Procedures
 RS 720 Human Growth and Development
 RS 733 Introduction to Teaching Reading in the Content Area
 RS 744 Reading, Writing, and Study Skills in the Content Area
 RS 761 Introduction to Special Education
 Methods of the Specific Content Area
 Internship

Note: Undergraduate content requirements vary depending on area of certification. Generally, a bachelor's degree or 27–30 credits are required in the area of certification.

Internship

An internship consisting of two phases concludes the certification coursework and is completed in a professional development school.

Phase I 50 hours of Field Experience

Phase I Seminar

Phase II Student Teaching

Phase II Seminar

Students wishing to complete a master's degree in curriculum and instruction or reading should see their adviser for specific course requirements.

These teacher certification programs have been approved by the Maryland State Department of Education using recognized state and national standards and include the Maryland approved reading courses.

COURSE DESCRIPTIONS

ADMINISTRATION AND SUPERVISION

AD 662 Supervision and Staff Development (3.00 cr.)

Examines the impact of the school reform movement on the principles and practices of supervision and staff development. Special attention paid to the role of the contemporary supervisor and principal, as well as the study of supervision as a process to stimulate professional growth/development.

AD 668 The Law, the Courts, and the School (3.00 cr.)

Reviews statutory requirements and case decisions to determine the legal responsibilities of teachers, counselors, and administrators in day-to-day school management. Special attention given to nondiscriminatory hiring procedures; dismissal for cause; tort liability in the classroom, special teaching situations, and on field trips. Considers the confidentiality of school records, freedom of speech for students/teachers, and malpractice in education.

AD 669 Constitutional Law and the Schools (3.00 cr.)

Explores a variety of U.S. Supreme Court decisions to determine their impact on the management of public schools and school districts. Topics include such pivotal constitutional issues as: freedom of speech; freedom of religious expression; sex, race, and age discrimination; curriculum issues; governmental control of education; and school discipline.

AD 670 The Law, the Courts, and

Private Schools

(3.00 cr.)

Introduces teachers, administrators, counselors, and other professional personnel to the impact of court decisions and statutory requirements upon the operation of the private school. Examines issues such as the legal status of the independent schools, hiring and dismissal procedures, due process, negligence, and the handling of records.

AD 674 Human Relations in

School Management

(3.00 cr.)

Grounded in recent research and development of sound relationships in an organizational setting. Examines human relations from philosophical, psychological, and sociological perspectives. Includes communication, uncovering and resolving conflicts, parent involvement, group dynamics, and balancing stress in personal and organizational life. Thoroughly examines and discusses the issues of racism, sexism, and classism.

AD 676 Fiscal Planning and Budgeting

in the Private School

(3.00 cr.)

Meets the needs of administrators, fiscal officers, school managers, and board members of independent and private schools. Focuses on management and planning techniques in relation to contemporary procedures for developing, allocating, and projecting fiscal resources. Basic budgeting and accounting procedures are reviewed and clarified.

AD 677 Organization and Administration

of Private Schools

(3.00 cr.)

Acquaints private school administrators with fundamental concepts of policy making, basic models of organization, trusteeship and boards of control, delegation of authority, leadership styles, and personnel management. A special attempt is made to meet the needs of students involved in a wide spectrum of organizational situations.

AD 679 Administering the Special Education

Program

(3.00 cr.)

An overview of the administrative requirements under the federal and state laws governing special education. Specific emphasis placed on the role of the individual principal.

AD 680 Leadership Seminar

(2-3.00 cr.)

An introduction to the administration and supervision program. Identifies strengths and weaknesses of the student as related to the thinking and research of academics and the state of the art practiced by admin-

istrators and supervisors. A relationship between concepts presented in the seminar course and concepts presented in the internship program will be reviewed.

AD 681 Organization Development (3.00 cr.)

A critical examination of contemporary models for designing, developing, and managing complex social organizations. Particular attention placed on organization structure, interaction with the environment of the organization, organizational climate, intra- and inter-organization dynamics, organizational life-cycle patterns. Discusses implications for school-based management.

AD 682 Technology for School Administrators (3.00 cr.)

Examines effective curricular and administrative uses of technology, planning for technology, and major issues surrounding technology in the K–12 environment. This laboratory-based course provides hands-on computer experience in class and requires extensive computer work outside of class.

AD 683 Leadership: Theories and Practices (3–4.00 cr.)

Examines leadership within an historical and conceptual framework. Focuses on the implications of leadership research and theory for school administration. Presents theories such as social systems, formal organizations, bureaucracy, compliance, game, and general systems. Discusses concepts like role, power, iteration, synergy, homeostasis, and heuristic. Students analyze and solve problems in case studies by applying leadership theories learned.

AD 684 Resource Management (1–3.00 cr.)

Major issues involved in managing school resources including budget and finance, school facilities, fund accounting, school-based management, guidance programs, and community resources. Considers federal, state, and local funding and governance aspects related to these resources. Other topics based on student needs.

AD 686 School Assessment: Issues and Skills (3.00 cr.)

Emphasizes examination of the assessment process and its contribution to school improvement and student achievement. Studies/discusses Criterion Reference Testing, Norm-Reference Tests, the Maryland School Performance Program, and alternative assessment practices. Encourages students to analyze and evaluate various assessment instruments/procedures and their impact on student success. Includes the role of the school leader in program implementation.

AD 687 Internship in Administration and Supervision (3–6.00 cr.)

Prerequisite: M.Ed. students must have 36 credits completed. Certification students must have 15 credits completed. The purpose of internships is twofold: (1) to provide an opportunity for students to apply and to develop their conceptual knowledge of educational administration/supervision in the field under the guidance of an experienced administrator/supervisor, and (2) to provide an opportunity to assess and evaluate the performance of graduate students in a real administrative/supervisory situation. In addition to hands-on leadership experience, interns will be asked to reflect on the total picture or gestalt of administrative behavior. Furthermore, interns will be assisted in learning how to make a systematic appraisal of how the building-level (or central office) administrator functions in leading an organization. A portfolio of achievement is developed.

AD 690 Field Study in School Management (3.00 cr.)

Under the guidance of a Department of Education staff member, students examine, analyze, and assess administrative behavior patterns in a real situation. Students use knowledge and skills resulting from coursework and simulation experiences as criteria for evaluating administrative performances.

AD 691 Field Study in School Supervision (3.00 cr.)

Under the guidance of a departmental staff member, students examine, analyze, and assess a problem relating to the supervision of instruction. Observes and evaluates supervisory behavior in a real situation. Students use knowledge/skills resulting from coursework and simulation experiences as criteria for evaluating supervisory performances.

AD 775 Seminars on Catholic School Education (3.00 cr.)

Provides participants with an opportunity to identify and examine problems and issues related to Catholic Schools and leadership through readings, discussions, case studies, and presentations.

AD 776 Theory and Research on Teaching (3.00 cr.)

Introduces students to recent developments in the field of research on teaching. Students become familiar with the prevailing paradigms and modes of research, as well as areas and topics of contemporary and historical concern relative to theory, research, and practice as they pertain to teaching and learning. Assignments include papers, exams, in-class discussions, and a significant amount of outside reading.

EDUCATION

ED 600 Foundations of Research in Education (3.00 cr.)

Examines various approaches to research in education, including historical/experimental methods, the survey, case study, and philosophical inquiry. Focuses on quantitative and qualitative methodology. Encourages students to develop a basis for evaluating and understanding research in the field and to familiarize themselves with the literature in their chosen areas of concentration. Acquisition of state-of-the-art information searching and accessing strategies is an integral part of the course objectives.

ED 601 Philosophy and Education (3.00 cr.)

Philosophy of education for educators at all levels, with special emphasis on the ethical dimensions of educational practice with regard to school governance, teaching, counseling, curriculum decisions, and matters of discipline. Participants engage in discussion of fundamental problems as they apply to their specific areas of professional activity in the field of education. Readings from current ethical and broader philosophical discourse are selected for analysis and oral/written discussion.

ED 602 Methods of Teaching Science (Secondary Level) (3.00 cr.)

Prerequisite: Written permission of the adviser is required. *Corequisite:* ED 612. Presents the general theory of education as applied to the teaching of science. Consideration is given to the selection and organization of content, as well as the methods and techniques associated with national and state standards for science instruction. *One of the six content methods courses is required by the State Department of Education for secondary school teachers.*

ED 603 Methods of Teaching English (Secondary Level) (3.00 cr.)

Prerequisite: Written permission of the adviser is required. *Corequisite:* ED 612. Presents the general theory of education as applied to the teaching of English. Consideration is given to the selection and organization of content, as well as the methods and techniques associated with national and state standards for English instruction. *One of the six content methods courses is required by the State Department of Education for secondary school teachers.*

ED 604 Methods of Teaching Foreign Language (Secondary Level) (3.00 cr.)

Prerequisite: Written permission of the adviser is required. *Corequisite:* ED 612. Presents the general theory of education as applied to the teaching of modern foreign

language. Consideration is given to the selection and organization of content and the methods, as well as the techniques associated with national and state standards for foreign language instruction. *One of the six content methods courses is required by the State Department of Education for secondary school teachers.*

ED 605 Methods of Teaching Social Studies (Secondary Level) (3.00 cr.)

Prerequisite: Written permission of the adviser is required. *Corequisite:* ED 612. Presents the general theory of education as applied to the teaching of social studies. Consideration is given to the selection and organization of content, as well as the methods and the techniques associated with national and state standards for social studies instruction. *One of the six content methods courses is required by the State Department of Education for secondary school teachers.*

ED 606 Educational Testing and Measurement (3.00 cr.)

Surveys and discusses the major concepts involved in educational testing and measurement. Exposes students to a variety of educational and psychological tests. Emphasis on those aspects important to the educator as a consumer of testing information.

ED 607 Methods of Teaching Mathematics (Secondary Level) (3.00 cr.)

Prerequisite: Written permission of the adviser is required. *Corequisite:* ED 612. Presents the general theory of education as applied to the teaching of mathematics. Consideration is given to the selection and organization of content, as well as the methods and the techniques associated with national and state standards for mathematics instruction. *One of the six content methods courses is required by the State Department of Education for secondary school teachers.*

ED 608 Educational Innovations (3.00 cr.)

Prerequisite: ED 600 or written permission of instructor is required. Examines innovation in schools, including the philosophical and psychological assumptions that underline departures from traditional schooling. Provides an historical perspective to understand how current and future innovations can impact the educational process.

ED 612 Secondary Methods of Teaching (3.00 cr.)

Introduces students to the general concepts required for teaching at the secondary level. Includes objectives of secondary education, unit and lesson planning, varied instructional techniques, dealing with individual differences, classroom management, and assessment. *This course is a pre- or corequisite for content methods in specific subjects.*

ED 613 Methods of Teaching Business
(Secondary Level)

(3.00 cr.)

Prerequisite: Written permission of the adviser is required.
Corequisite: ED 612. Presents the general theory of education as applied to the teaching of business. Consideration is given to the selection and organization of content and the methods, as well as the techniques associated with national and state standards for mathematics instruction. *One of the six content methods courses is required by the State Department of Education for secondary school teachers.*

ED 619 Thesis Seminar

(6.00 cr.)

Students planning to propose a thesis topic enroll with their adviser's consent. Informal meetings, scheduled at the convenience of participants and advisers, provide an opportunity for critical discussion of planned research. *Participants receive credit upon successful completion of their thesis. Required for M.A. only.*

ED 620 Principles of Early Childhood
Education

(3.00 cr.)

An introduction to early childhood education involving the study of the needs and development of young children. A study of the history of early childhood education, the curriculum and environment, current trends, atypical children, behavioral problems, adult roles and relationships, and home-school-community relations.

ED 621 Learning Theory

(3.00 cr.)

An examination of the various interpretations of the learning process. Includes historical perspectives but focuses on current research and developments in the field. Emphasis on assisting educators in deciding on instructional strategies.

ED 622 Excellence in Science Education

(3.00 cr.)

Offers participants an opportunity to integrate science content with research methodology and teaching strategies. Students engage in research within groups. Relevant scientific theory is studied. Research topics vary from semester to semester and are taken from current developments in relevant disciplines.

ED 623 Independent Study in Education

(3.00 cr.)

Prerequisite: Written permission of the adviser and chair is required. Individual projects geared to specific needs or interests of students. Specific requirements related to each independent study will be approved on an individual basis.

ED 624 Historical Perspectives on

Private Education in America

(3.00 cr.)

A study of the historical origins of private education, various beliefs and aims underlying private schooling, contemporary practices, and issues with a view of future developments.

ED 625 Advanced Study in Education

(3.00 cr.)

Prerequisite: Written permission of the adviser or chair is required. Individual projects geared to specific needs or interests of students. Specific requirements related to each independent study will be approved on an individual basis.

ED 628 Seminar in Adult Education

(3.00 cr.)

Provides participants with an opportunity to identify and examine problems in adult education and to develop to pursue an interest in a specific problem or problems in the teaching of adults or the administration/supervision of programs in the field of adult education.

ED 629 Social Studies: Passing on the Culture

(3.00 cr.)

Designed to help students realize the excitement and responsibility of passing on a diverse culture to children through the teaching of social studies. Practical ideas for teaching the various components of social studies: history, geography, anthropology, economics, sociology, and psychology. Includes demonstrations on teaching content and critical thinking while maintaining high student interest.

ED 631 Classroom Techniques in Arithmetic

(3.00 cr.)

Teaching and assessment strategies in numeration, computational skills, measurement, geometry, and problem solving. Discusses teacher constructed and commercially prepared materials.

ED 632 Diagnosis of Arithmetic Disabilities

(3.00 cr.)

Emphasizes educational diagnosis and assessment in arithmetic, as well as the use and construction of informal diagnostic arithmetic tests. The use of standardized measures as supplementary procedures is provided.

ED 633 Improving Group Interaction
in Schools

(3.00 cr.)

Assists school personnel at all levels to gain a better understanding of group interactions in educational settings. Emphasis on helping individuals understand how their daily observations about groups relate to group theory. Topics covered and competencies acquired include recognizing and responding to leadership styles, increasing decision-making skills, improving classroom/school climate, facilitating group communication, con-

ducting meetings more effectively. Offers an opportunity for small group interactions through which self-knowledge can be increased, interpersonal interactions can be explored, personal/professional experiences can be shared, and relevant research can be critically evaluated.

ED 635 Classroom Management Techniques (3.00 cr.)

An introduction to a variety of management techniques. Topics include time management, physical management, and the role of the parent and principal in classroom management. Presents behavior management techniques of instruction, reward, modeling, punishment, and contracting. Requires student participation and stresses application of the techniques discussed.

ED 636 Preprimary and Primary Curriculum (3.00 cr.)

Examines the many factors considered in the preparation of curriculum for young children. Explores current research on children's physical, intellectual and psychological development, and integration of content areas. Develops practical writing guides, skill sheets, and activities.

ED 637 Instructional Strategies for the Gifted (3.00 cr.)

Prerequisite: Written permission of the adviser is required. A review of basic research, theories of learning, and instructional models related to gifted education. Students have the opportunity to develop and evaluate various models suitable for implementation within the classroom.

ED 638 Basic Counseling Skills for Teachers (3.00 cr.)

Emphasizes the helping relationship, with focus on both process and content. Content includes self concept, developmental concerns, and personality needs. Process involves communication skills that facilitate understanding, clarification and action. Values clarification, conflict resolution, and stress management are considered in terms of personal development, interpersonal relationships, and decision-making. Teachers acquire facilitative communication skills for working with students, parents, and peers in group or one-on-one situations.

ED 640 Supervising Teacher: Helping the Student Teacher (3.00 cr.)

Orientation and management of the student teacher in the classroom environment. Presents competencies of preparing for the student teacher arrival, determining roles and relationships, and developing a positive interpersonal relationship. Discusses basic concepts in observation, conferencing, and evaluation.

ED 642 Computer Literacy for Educators (3.00 cr.)

An introduction to the world of the computer for teachers and administrators. In addition to learning about different computers, students review computer hardware and software along with their applications for classroom use.

ED 643 Field Experience in Education (Secondary/Middle Level) (1.00 cr.)

Phase I of a two semester internship in a specified area of certification. Interns observe, reflect, and begin to gain teaching experience in both a middle and a high school placement. They become acquainted with support systems, school climate, and resources in both placements and participate in the preparation of learning materials and in classroom instruction. Techniques of teaching adolescents and managing secondary classrooms are experienced in realistic professional development school settings. (*Pass/Fail*)

ED 645 Advanced Seminar in Education: Educational Innovations in the Twentieth-Century (3.00 cr.)

A study of philosophical and psychological assumptions that underline such departures from traditional schooling as "The School Without Walls," "Open Education," and "The Free School"; Performance-Based Teaching; etc.

ED 646 Curriculum Planning for Private Education (3.00 cr.)

A combination of theory and practice designed to develop and enhance techniques for educators who are involved in designing, implementing, and evaluating programs of study within the private school setting. Includes examination of strategies for integration of school philosophies and values, determining learning modes and teaching methods toward maximizing human potential, performing needs assessments, determining appropriate curriculum design, and conducting formative and summative evaluation. Emphasis on current efforts to improve student achievement in such critical areas as literacy in communications media in a new era of high technology, science, mathematics, and foreign language acquisition within the framework of individual schools.

ED 647 Curriculum Policy Studies (3.00 cr.)

Examines how curriculum policy is generated, implemented, and its impact evaluated. Participants analyze the content of selected local, national, and international curriculum policies influencing educational practice. Detailed study of policy documents in the various areas of instruction.

ED 648 Field Study in Curriculum (3.00 cr.)

Participants design, analyze, examine, or assess some aspect of the curriculum process. Field study participants develop specific projects in consultation with the instructor. *Offered on an individual basis or in groups under guidance of an instructor in the Education Department.*

ED 649 Field Study in Classroom Teaching (3.00 cr.)

Under the guidance of a Department of Education staff member, students conduct an independent project designed to facilitate a meaningful integration of the components of the graduate program. Serves as the culminating experience in the curriculum and instruction program.

ED 650 Curriculum Theories and Practices (3.00 cr.)

Focuses on methodologies and approaches for determining the validity and usefulness of curriculum aims, the effectiveness of the curriculum decision-making process, successful curriculum implementation, and other significant aspects of the curriculum. Special attention paid to evaluation of various types of learning goals such as behavioral objectives, performance-based curriculum outlines, and learner affectivity. Fundamentals of curriculum placing needs, assessment, design, and evaluation receive attention. Studies the development of programs for special needs students. Theoretical foundations and practical projects for application in the field receive balanced treatment.

ED 651 Evaluation and Assessment of Curriculum and Instruction (3.00 cr.)

Specialized study focusing on methodologies and approaches for determining the validity and utility of curriculum aims, the effectiveness of the curriculum decision-making process, successful implementation (e.g., instructional methodology and deployment of personnel and material resources), and other significant aspects of the curriculum. In addition, this course emphasizes the instructional assessment process and its contribution to school improvement and to student achievement. Assessment topics include Criterion-Referenced Testing, Norm-Referenced Tests, the Maryland School Performance Assessment Program, and alternative assessment practices. Emphasizes both theory and practice.

ED 652 Curriculum Networking (3.00 cr.)

Centered around helping teachers and curriculum workers acquire information and skills which help identify local, national, and international support systems available to professionals in education. Individual

and group activities are designed to create curriculum "networks" in the specific content areas of the curriculum, making use of reports of presidential commissions, council reports, association meetings and proceedings, periodic literature, and other materials dealing with improving curriculum.

ED 653 Student Teaching (Secondary Level):**Mathematics (6.00 cr.)**

An opportunity for students to translate academic theory into practice. Students practice-teach for a minimum of six weeks under the supervision of a college supervisor and experienced classroom teacher.

ED 654 Student Teaching (Secondary Level):**Science (8.00 cr.)**

Phase II of the internship where interns continue to translate academic theory into practice. This phase lasts the entire semester and is split between a middle and a high school placement. Interns teach under the supervision of college coordinators and experienced mentor teachers.

ED 655 Student Teaching (Secondary Level):**English (8.00 cr.)**

Phase II of the internship where interns continue to translate academic theory into practice. This phase lasts the entire semester and is split between a middle and a high school placement. Interns teach under the supervision of college coordinators and experienced mentor teachers.

ED 656 Student Teaching (Secondary Level):**Foreign Language (8.00 cr.)**

Phase II of the internship where interns continue to translate academic theory into practice in both a middle school and a high school placement. This phase lasts the entire semester and is split between a middle and a high school placement. Interns teach under the supervision of college coordinators and experienced mentor teachers.

ED 657 Student Teaching (Secondary Level):**Social Studies (8.00 cr.)**

Phase II of the internship where interns continue to translate academic theory into practice in both a middle school and a high school placement. This phase lasts the entire semester and is split between a middle and a high school placement. Interns teach under the supervision of college coordinators and experienced mentor teachers.

ED 658 Seminar in Curriculum and**Instruction (3.00 cr.)**

An in-depth introduction to a topic significant to contemporary teaching and learning/curriculum and instruction. It is aimed toward advanced students with at least some experience in educational research, theory, philosophy, and/or practice. Currently, it is required of all graduate students majoring in curriculum and instruction. Assignments generally include independent and group readings, class discussions, original papers, in-class presentations, and/or examinations. *Topics vary by semester and instructor.*

ED 659 Curriculum Internship (3–6.00 cr.)

Prerequisite: Written permission of the adviser is required. Offered on an individual basis or in groups. Participants may earn graduate credit for experience on curriculum workshops conducted by various school systems, at the discretion of the College. At meetings with the department coordinator, assigned readings in specific areas of curriculum are discussed to provide some theory for the curriculum practice in which individual participants engage. Students interested in obtaining internship credit may contact the adviser at any time.

ED 660 Curriculum Development in the Private School (3.00 cr.)

Examines special adaptations, theories, and practices involving curriculum development in the private school sector. Guides students toward the professional assessment and continuing evaluation of their own curriculum development strategies in a variety of private school situations.

ED 661 Teaching Thinking Across the Curriculum (3.00 cr.)

Designed for classroom teachers, administrators, and supervisors. Emphasizes practical strategies for the development of thinking skills (K–12) through direct instruction. Participants have on-going opportunities to develop and apply these strategies to their specific curriculum.

ED 662 Assessment for the Classroom: Models, Techniques, and Procedures (3.00 cr.)

Explores effective models, techniques, and procedures for comprehensive classroom assessment. Participants develop an understanding of interactive processes as ways for students to construct meaning, be involved in problem solving approaches, and apply higher level thought processes. In designing instructional tasks for classroom learning, participants examine the use of

student developed criteria and student constructed projects as a focus for developing self-directed learners.

ED 663 Curriculum Direction for the Nineties (3.00 cr.)

An assessment of curriculum responses to emerging social forces during the next decade. Emphasizes such aspects as family patterns, technological life styles, urban environmental problems, scientific discoveries, and patterns of schooling and curriculum design.

ED 664 Methods of Teaching Art (Elementary Level) (2–4.00 cr.)

Prerequisite: Written permission of the adviser is required. Presents the general theory of education as applied to specific subject area. Introduces current research and teaching methods related to the respective discipline.

ED 666 Language Development (3.00 cr.)

Surveys language development from infancy through high school. Emphasizes developmental theory, language skills required for school success, and patterns of delayed or deviant development. *Same course as RS 723.*

ED 667 Ethical Issues in Teaching (3.00 cr.)

Examines the sensitive questions involved in teaching moral roles in public elementary and secondary schools from the prospective of both philosophy and law. Legal perimeters are clearly defined in terms of recent court decisions, and fundamental concepts of morality are analyzed from an existential prospective. Classroom discussion by experienced teachers and administrators is encouraged.

ED 668 The Law, the Courts, and the School (3.00 cr.)

Statutory requirements and case decisions reviewed to determine the legal responsibilities of teachers, counselors and administrators in day-to-day school management. Special attention given to nondiscriminatory hiring procedures; dismissal for cause; tort liability in the classroom, special teaching situations, and on field trips. Considers the confidentiality of school records, freedom of speech for students/teachers, and malpractice in education.

ED 672 Education in the Urban Community (3.00 cr.)

Examines the impact of and demands made upon the urban school by ethnic minority students. Participants examine the background of American ethnics and relate the historical and cultural experiences of these groups to their accomplishments in the American educational program.

ED 673 Multicultural Relations in the Urban School

(3.00 cr.)

Focuses on strategies for developing and maintaining a multicultural environment within the classroom and the school. Explores the historical and current impact of stereotypes and prejudices on the development and success of minority children. Major emphasis on developing an appreciation for and an understanding of human differences.

ED 674 Education of the Minority Child

(3.00 cr.)

Focuses on the crucial significance of culture in the education of minority children with specific emphasis on African Americans and Hispanics. Participants examine learning styles of the minority children then suggest curricular reforms and/or approaches that would allow these minorities to realize their strengths and succeed in school and the workplace.

ED 675 Current Research on Teaching and Learning: Special Education

(3.00 cr.)

An introduction to recent theoretical and research advances in the field of teaching, specifically as they relate to contemporary movements in special education. Topics include: paradigms; the theory of multiple intelligences; multicultural education; and the ARD process; as well as the historical, philosophical, and legal foundations of special education as a field.

ED 676 Theory and Research on Teaching

(3.00 cr.)

Introduces students to recent developments in the field of research on teaching. Students become familiar with the prevailing paradigms and modes of research, as well as areas and topics of contemporary historical concern relative to theory, research, and practice as they pertain to teaching and learning. Assignments include papers, exams, in-class discussions, and a significant amount of outside reading.

ED 680 Student Teaching

(Elementary Level)

(10–15.00 cr.)

An opportunity for students to translate academic theory into practice. Students practice-teach for a minimum of ten weeks under the supervision of a college supervisor and experienced classroom teacher.

ED 700 Earth Science I

(Elementary/Middle)

(3–4.00 cr.)

An introduction to rocks, minerals, and the forces that shape the earth. Studies the relationship of the earth and moon to the solar system. Laboratory activities, internet investigations, and field excursions empha-

size hands-on exercises for use in elementary and middle school situations. *Weekend field trips required.*

ED 702 Earth Science II

(Elementary/Middle)

(3.00 cr.)

Concentrates on the relationship between the lithosphere, atmosphere, hydrosphere, and biosphere in which life has evolved. Topics include the geologic history of eastern North America as interpreted from the rock and fossil record of Maryland, as well as an examination of tectonic and climatic influences on the evolution of life. Natural and human influences on global climate changes are also addressed. *Saturday field trips required.*

ED 703 Life Science (Elementary/Middle)

(3.00 cr.)

The exploration of basic concepts of the life sciences such as living versus nonliving systems, sources of energy for life, and the relationship of organisms to their surroundings. Cell structure and function, ecology, and classification systems are stressed through hands-on activities suitable for elementary and middle school classrooms. *Weekend field trips required.*

ED 704 Physical Science I

(Elementary/Middle)

(3.00 cr.)

Explores basic concepts in physics such as motion, mechanical advantage, simple machines, light, sound, electricity, and magnetism. Applications to common, everyday life experiences are stressed through hands-on, student-centered, inquiry-based elementary and middle school laboratory exercises.

ED 705 Physical Science II

(Elementary/Middle)

(3.00 cr.)

Explores matter, gases, liquids, and solids; their properties and interactions; and physical and chemical changes. Uses an understanding of atomic structure and bonding to explain matter behavior. Hands-on elementary and middle school level investigative activities explore basic physical laws, solutions, acids and bases, and the application of chemical concepts to everyday experiences.

ED 706 Environmental Field Study

(3.00 cr.)

A capstone course which synthesizes and integrates scientific and educational principles addressed in the graduate program. Uses field-based, cooperative group projects to integrate earth, life, and physical science principles and techniques into environmental studies and assessments. Water quality studies, land use assessments, and current-practice analyses are conducted during field excursions. *Field trips required.*

ED 711 Teacher-Counselor Partnerships (3.00 cr.)

Focuses on how teachers and guidance counselors can work together to help students solve their problems. Topics include: making and keeping friends; improving self-image and enhancing self esteem; dealing with divorce; and saying “no” to drugs and alcohol. Additional topics include the subject of abuse and how school personnel should respond; dealing with disruptive children; how to form peer groups; conflict resolution; childhood depression and suicide; and when a teacher should refer a child to the guidance department. Students prepare case studies, read journal articles, participate in group discussion, and complete a final exam.

ED 712 Teaching Science for 2061 (3.00 cr.)

Concentrates on analysis of a national and a state reform effort, Project 2061: Science for All Americans and the Maryland Science Outcomes Model. Participants apply the tenets of these documents to curriculum, instruction, and assessment decision. Emphasizes experiential learning, micro-teaching, classroom application.

ED 713 Geology and Geoarchaeology of Baltimore Area Cathedrals (3.00 cr.)

An introduction to the earth and human history contained in the building stone of Catholic churches and cathedrals in the Baltimore area. Classroom lectures, discussions, hands-on laboratory activities, and on-site field excursions focus on basic principles of geology, geoarchaeology, and global climate change as well as local, regional, and global earth history.

ED 714 Physical Earth Science (3.00 cr.)

An introduction to the dynamic processes affecting the surface and interior of the planet. Uses inquiry-based investigations of minerals, rocks, volcanism, seismic activity, and evidence of crustal deformation to understand the surface of the earth in a plate tectonic setting. Surficial modification processes are explored through hands-on exercises in weathering, erosion, and sediment transport and deposition in a variety of geomorphic and climatic environments. *Weekend field trips required.*

ED 715 Historical Earth Science (3.00 cr.)

Students explore the assembly of eastern North America during the last one and a half billion years from stratigraphic and structural evidence in the rock record of Maryland. Field excursions emphasize the factors which influence the development and continued modification of life, climate, landforms, and their resultant environments throughout geologic time. *Weekend field trips required.*

ED 716 Environmental Applications in Earth Science (3.00 cr.)

Uses field-based, cooperative group projects to integrate earth science principles and techniques into environmental studies and assessments. Water quality studies, land use assessments, hydrologic investigations, and soil surveys are conducted during on-site analyses. *Field trips required.*

ED 717 Global Climate Change (3.00 cr.)

Students examine the timing, extent, and possible causes of global climate fluctuations during the last two million years from evidence contained in terrestrial, marine, polar ice, and atmospheric records. Attention is given to the dynamic interrelated lithospheric-hydrospheric-atmospheric systems and associated geochemical cycles and feedback mechanisms. Geochronologic methods used in dating global climate change records are investigated. *Weekend field trips required.*

ED 718 Earth Science Field Methods (3.00 cr.)

Practical experiences in field study techniques appropriate for teachers of high school earth science classes. Traditional methods include thematic and geologic mapping, field relationships of rock structures, and subsurface sampling and sediment processing using hand augers and vibracores. Technological field methods include experiences in topographic and site mapping using a laser theodolite system, computer mapping and geographic information system programs, and geophysical surveys using a ground penetrating radar system. *Weekend field trips required. No previous field experience required.*

ED 720 Assessment and Evaluation in Mathematics Instruction (3.00 cr.)

Examines current thinking in the assessment and evaluation of mathematics instruction. The Assessment Standards of the National Council of Teachers of Mathematics provide a framework for the course. Both the MSPAP and Maryland State High School Assessment programs are discussed in detail. Practical opportunities for the development of assessment instruments are included.

ED 721 Mechanics I (3.00 cr.)

Instruction in the concepts of kinematics, dynamics, and energy with emphasis on problem solving techniques. Coursework is enhanced with appropriate laboratory activities using graphical analysis programs, graphing calculators, and a calculator-based laboratory program to collect and analyze data. Simulations using interactive physics are used to reinforce instruction.

ED 722 Mechanics II (3.00 cr.)

Instruction in the concepts of momentum, rotational motion, and simple harmonic motion with emphasis on problem solving techniques. Coursework is enhanced with appropriate laboratory activities using graphical analysis programs, graphing calculators, and a calculator-based laboratory program to collect and analyze data. Simulations using interactive physics are used to reinforce instruction.

ED 723 Electricity and Magnetism (3.00 cr.)

Instruction in consists of electrostatics, electric potential, electric fields, capacitance, and DC circuits. Magnetism consists of magnetic fields and their interaction with charged particles and electric fields. There are practical discussions of the operation of numerous electrical devices including fuses, transformers, and electric motors. Coursework is enhanced with appropriate laboratory activities using multimeters, circuit boards, the calculator-based laboratory program, and interactive physics simulations.

ED 724 Waves, Sound, and Light (3.00 cr.)

Instruction in wave theory and its applications to light and sound. Also includes optics and historical perspective of the wave/particle theory of light. Coursework is enhanced with appropriate laboratory activities including the oscilloscope, optical bench, and laser technology.

ED 725 Thermodynamics and Modern Physics (3.00 cr.)

Instruction in thermodynamics consisting of the thermal properties of matter and the first and second laws of thermodynamics. Modern physics covers relativistic mechanics, photons, electrons, and atoms and nuclear physics.

ED 727 Earth in Space (3.00 cr.)

Examines the role of the earth as a planet, in space and time. Uses in-class and long-term observational, inquiry-based activities and exercises to explore relationships in the earth-moon-sun system, solar system, and visible objects within the galaxy. Concepts of cosmology, stellar evolution, planetary formation, and space exploration are covered through class discussions, independent research projects, and classroom-appropriate activities. *Evening field trips required.*

ED 736 Classroom Techniques in Written Expression (3.00 cr.)

Provides an overview of the writing process; integrates research and theory about reading/writing connections and writing across the curriculum. Emphasis given to the process of writing and the quality of compositions.

Includes practical strategies for teaching written expression. Discusses eight writing forms: journal, descriptive, letter, biographical, expository, narrative, poetry, and persuasive. Also addresses the assessment of written expression. *Same course as RS 736.*

ED 750 Thesis Seminar I (3.00 cr.)

Prerequisite: Written permission of the adviser is required. Restricted to M.A. students. Students register for this course as they begin the thesis process. Meetings scheduled at the convenience of the participants and advisers provide an opportunity for critical discussion of planned research. Participants receive credit upon successful completion of the thesis. *Topic must be approved by the adviser prior to enrollment.*

ED 751 Thesis Seminar II (3.00 cr.)

Prerequisite: ED 750. Written permission of the adviser is required. Restricted to M.A. students. The culmination of work begun in ED 750. Students register for this course during the last semester of thesis work. Participants receive credit upon successful completion of the thesis.

ED 780 Methods of Teaching Art (Focus: Grades Pre-K-12) (2-5.00 cr.)

Prerequisite: Written permission of the adviser is required. Presents the general theory of education as applied to the specific subject area. Introduces current research and teaching methods related to the respective discipline.

ED 794 Diagnosis and Remediation of Arithmetic Disabilities (3.00 cr.)

Principles of diagnosis and remediation; experience with formal and informal tests used to diagnose learning problems in arithmetic; evaluation of techniques and materials.

ED 795 Language Arts Methods for Early Childhood (3.00 cr.)

Presents the language arts components of speaking, listening, reading, and writing. Examines curriculum materials and instructional strategies to creatively teach language arts to the average, gifted, and talented.

ED 796 Language Arts Methods for Elementary School (3.00 cr.)

Presents the language arts components of speaking, listening, reading, and writing. Examines curriculum materials and instructional strategies to teach language arts creatively to the average, gifted, and talented.

EDUCATIONAL TECHNOLOGY

ET 605 Introduction to Educational Technology (3.00 cr.)

Examines applications of traditional and emerging technology to the curriculum with an emphasis on the use of technology an instructional tool to enhance the quality of classroom instruction and facilitate the work of the teacher. Includes hands-on experience with a variety of technology as well as discussions of the place of technology in school reform. This laboratory-based course provides hands-on computer experience in class and requires extensive computer work outside of class.

ET 610 Curricular Applications of Technology (3.00 cr.)

Prerequisite: ET 605 or written permission of the instructor is required. Studies applications of technology to the curriculum in a variety of disciplines. Reviews software and technology projects to enhance science, mathematics, social studies, and language arts. Criteria for evaluating software and technology projects are discussed, and technological resources in each curricular area are presented.

ET 620 Multimedia Design in the Classroom (3.00 cr.)

Prerequisite: ET 605 or written permission of the instructor is required. An introduction to design, development, and evaluation of multimedia projects with an emphasis on multimedia production in the K–12 classroom. Students use multimedia authoring tools to produce courseware for classroom use and learn how to incorporate multimedia design projects into their curricula. Emphasis is on the use of multimedia design to teach K–12 students to be critical consumers of information. This laboratory-based course provides hands-on computer experience in class and requires extensive computer work outside of class.

ET 630 Telecommunications in the Classroom (3.00 cr.)

Prerequisite: ET 605 or written permission of the instructor is required. Examines the technical and curricular aspects of telecommunications in schools. Introduces telecommunications software and hardware such as World Wide Web browsers and servers, electronic mail systems, networks, and modems. Explores curricular implications of telecommunications and internetworking such as networked projects with students and adults outside the school walls; research on the Internet; authentic publishing on the World Wide Web; and critical information literacy.

ET 631 Distance Education (3.00 cr.)

Prerequisite: ET 605 or written permission of the instructor is required. An introduction to the different methods of delivering instruction at a distance, including asynchronous learning networks and two-way interactive video. Discusses the pedagogical obstacles that distance imposes and why educators might or might not choose to teach at a distance. Provides hands-on practical experience with designing instruction for use over the Internet and in Loyola's state-of-the-art distance learning classroom.

ET 640 Adaptive/Assistive Technology for Education (3.00 cr.)

Prerequisite: ET 605 or written permission of the instructor is required. Examines adaptive/assistive technologies for helping special needs students in the classroom.

ET 680 The Role of the Technology Specialist (3.00 cr.)

Prerequisite: ET 605 or written permission of the instructor is required. Analyzes the role of the technology specialist in the school, including practical issues for managing the school's technology infrastructure, balancing a teaching load with technology specialist responsibilities, and the technology specialist as a catalyst for change.

ET 681 Technology and School Change (3.00 cr.)

Explores issues and ethics of technology as a tool for change in schools. Topics include ethical and legal considerations of the Internet, technology planning, and issues surrounding using technology as a catalyst for change.

ET 690 Educational Technology Seminar (3.00 cr.)

Prerequisite: ET 605, ED 600 or written permission of the instructor is required. Examines current trends in the field of educational technology. *May be repeated for credit with written permission of adviser.*

ET 691 Educational Technology Internship (3.00 cr.)

Prerequisite: Completion of 24 credits. Written permission of the adviser is required. At meetings with the department coordinator, assigned readings in specific areas of educational technology are discussed to provide some theory for the educational technology practice in which individual participants engage. At the discretion of the College, participants may earn graduate credit for experiences with educational technology on the school, district, or state level. Students who are interested in obtaining internship credit may contact the adviser at any time. *Offered on an individual basis or in groups.*

ET 699 Thesis Seminar (6.00 cr.)

Students planning to propose a thesis topic enroll with their adviser's consent. Informal meetings scheduled at the convenience of participants and advisers provide an opportunity for critical discussion of planned research. Participants receive credit upon successful completion of their thesis.

SCHOOL COUNSELING**GC 700 Introduction to School Counseling (3.00 cr.)**

Studies the specialized knowledge and skills requisite to both elementary and secondary counseling. Foundations of school counseling, its history and philosophy and the role and function of the school counselor. Introduces contextual dimensions of school counseling and consultation, and diversity issues relevant to the professional practice of school counseling. Also includes a systematic, programmatic approach to practice as well as ethical standards and guidelines of the American School Counseling Association.

GC 701 Techniques of Educational Counseling (3.00 cr.)

Prerequisite: GC 704 (may be taken concurrently). Focuses on the helping relationship including: interviewing, application of counseling skills, and basic change strategies. Considers verbal and nonverbal behaviors and characteristics in both client and counselor. Discusses diversity and ethical considerations.

GC 702 Analysis of the Individual (3.00 cr.)

Provides students with the knowledge and skills necessary to obtain and integrate information about the pupil from various schools and nonschool sources, with a view to giving the counselor a holistic understanding of the counsellee. Stresses a framework for understanding the individual, including methods of data gathering/interpretation, case study approaches, and individual and group assessment. Includes studies that provide a broad understanding of the nature and needs of individuals at all developmental levels.

GC 703 Lifestyle and Career Development and Decision Making (3.00 cr.)

Prerequisite: GC 700, GC 701, GC 704. An introduction to the principal theories of career development and decision-making and the counseling procedures appropriate to each theoretical position. Acquaints students with the various kinds of educational and occupational information sources for obtaining this information and the means for imparting it. Considers assessment

and computer-based systems as well as the needs of special populations.

GC 704 Theories of Counseling (3.00 cr.)

Emphasizes counseling and consultation theories, both from individual and systems perspectives. Presents the philosophical underpinning of theories of personality and the theories incorporated in counseling practice. Discusses client characteristics and behaviors that influence the counseling process. *May be taken concurrently with GC 701.*

GC 706 Group Counseling in Schools (3.00 cr.)

Prerequisite: GC 700, GC 701, GC 704. An introduction to the theories and techniques of group procedures in school counseling. Emphasizes the understanding of concepts, as well as the development of group leadership skills for effective school counseling. Presents research in the field of group counseling and its methods. The roles of group leaders and group members are clearly delineated as are selection criteria.

GC 708 Cross Cultural Counseling (3.00 cr.)

Prerequisite: GC 700, GC 701, GC 704. An exploration of ethnic groups and subcultures. Emphasizes the establishment of effective communication between the counselor and client across cultures. Presents ethical dilemmas related to cross cultural counseling.

GC 709 Counseling in the Elementary School (3.00 cr.)

Prerequisite: GC 700, GC 701, GC 704. For those students who plan to function as counselors in elementary schools. Emphasizes theories and practices which are unique to guidance and counseling activities in such a setting.

GC 712 Human Development through the Life Span (3.00 cr.)

Studies human behavior through the life span at all developmental levels. Family, career, aging, and other processes are examined developmentally. Considers both normal and abnormal processes. Stresses strategies for facilitating development over the life span; emphasizes theories of learning and personality development; discusses cultural consideration with regard to human developmental processes.

GC 714 Ethical, Social, and Professional Issues Seminar (3.00 cr.)

Examines the role identity of counselors in light of current social and professional issues including preparation standards and licensure. Explores the ethical codes of NBCC, ACA, ASCA, and APA. Considers the future

of the profession and the leadership of professional associations.

GC 720 Independent Study in School Counseling (3.00 cr.)

Prerequisite: Written permission of the adviser is required. Allows advanced students to study independently in special disciplinary or topical areas related to counseling of specific, rather than general, interest. Specific requirements related to each independent study are approved on an individual basis.

GC 721 Advanced Study in School Counseling (3.00 cr.)

Prerequisite: Written permission of the adviser is required. Individual projects geared to specific needs or interests of students. Specific requirements related to each independent study approved on an individual basis.

GC 722 Internship in School Counseling I (3.00 cr.)

Prerequisite: Successful completion of all coursework. Written permission of the adviser is required. The culminating activity of the school counseling program which provides students with the opportunity to put into practice, in an actual school setting, the knowledge and skills learned in all previous courses. GC 722 and GC 723 constitute one 600-hour internship in a school setting under the supervision of a certified school counselor. Two hundred forty hours must be in direct service which includes individual counseling, group work, developmental classroom guidance, and consultation. Students must attend one hour per week of individual supervision as well as one and one-half hours per week of group supervision. A field study fee is charged.

GC 723 Internship in School Counseling II (3.00 cr.)

Prerequisite: Successful completion of all coursework. Written permission of the adviser is required. The culminating activity of the school counseling program which provides students with the opportunity to put into practice, in an actual school setting, the knowledge and skills learned in all previous courses. GC 722 and GC 723 constitute one 600-hour internship in a school setting under the supervision of a certified school counselor. Two hundred forty hours must be in direct service which includes individual counseling, group work, developmental classroom guidance, and consultation. Students must attend one hour per week of individual supervision as well as one and one-half hours per week of group supervision. A field study fee is charged.

GC 728 Internship in School Counseling I and II (6.00 cr.)

Prerequisite: Written permission of the practicum instructor and the program director is required. The culminating activity of the school counseling program which provides students with the opportunity to put into practice, in an actual school setting, the knowledge and skills learned in all previous courses. GC 728 constitutes one 600-hour internship in a school setting under the supervision of a certified school counselor. Two hundred forty hours must be in direct service which includes individual counseling, group work, developmental classroom guidance, and consultation. Students must attend one hour per week of individual supervision as well as one and one-half hours per week of group supervision. *Fulfills the same requirement as GC 722 and GC 723 combined. A field study fee is charged.*

GC 730 Internship in School Counseling Year I (3.00 cr.)

Prerequisite: Successful completion of all coursework. Written permission of the adviser is required. The culminating activity of the school counseling program which provides students with the opportunity to put into practice, in an actual school setting, the knowledge and skills learned in all previous courses. GC 730 constitutes the first year of a 600-hour internship in a school setting under the supervision of a certified school counselor. Two hundred forty hours must be in direct service which includes individual counseling, group work, developmental classroom guidance, and consultation. Students must attend one hour per week of individual supervision as well as one and one-half hours per week of group supervision. GC 730 is intended to be a year-long internship and must be taken over two semesters. It may not be compacted into one semester. One final grade is given at the end of the second semester. A field study fee is charged.

GC 731 Internship in School Counseling Year II (3.00 cr.)

Prerequisite: Successful completion of all coursework. Written permission of the adviser is required. The culminating activity of the school counseling program which provides students with the opportunity to put into practice, in an actual school setting, the knowledge and skills learned in all previous courses. GC 731 constitutes the second year of a 600-hour internship in a school setting under the supervision of a certified school counselor. Two hundred forty hours must be in direct service which includes individual counseling, group work, developmental classroom guidance, and consultation. Students must attend one hour per week of individual supervision as well as

one and one-half hours per week of group supervision. GC 731 is intended to be a year-long internship and must be taken over two semesters. It may not be compacted into one semester. One final grade is given at the end of the second semester. *A field study fee is charged.*

GC 740 Field Study in School Counseling (3.00 cr.)

Prerequisite: Written permission of the adviser or the chair is required. Individual projects geared to specific needs or interests of students. Specific requirements related to each independent study approved on an individual basis.

GC 744 Instructional Strategies for School Counselors (3.00 cr.)

Focuses on skills which help school counselors who have not had formal training as a classroom teacher. Students have the opportunity to learn techniques and strategies used in classroom management, understanding student behavior, and planning presentations.

GC 745 Using Technology to Support Counseling Services (3.00 cr.)

Provides skills for effective use of Internet resources to support instruction, guidance, and counseling. Students learn how to design a website, develop their own, evaluate the quality of websites, use them in conjunction with counseling and teaching, and follow ethical guidelines.

GC 746 Using Assessment in Career Counseling (3.00 cr.)

Focuses on the instruments available for use by counselors when assisting individuals in the career choice process and in evaluating the effectiveness of career planning services. It provides information about a broad variety of such instruments; how to select them; how to prepare individuals to take them; how to interpret them; and how to use them to assist individuals in the decision-making process.

GC 753 Family Systems and Theory Practice (3.00 cr.)

Topics include basic concepts of systems theory; the structure, processes, and adaptiveness of the family as a system; "FACES," Olson's family adaptability and cohesion scale to measure organization and bonding; interventions and directives à la Jay Haley; selected videotaped selections of classical family interventions; case studies to assess, diagnose, and refer families for additional help as well as small group discussion.

GC 754 Multicultural Family Systems and Gender Issues in the School Setting (3.00 cr.)

Emphasizes the demographic, economic, social, and psychological challenges that confront culturally diverse students in their efforts to achieve academic success and emotional well-being. Specific family systems interventions and directives are designed to help minority students and their families meet their educational goals. Includes literature related to gender differences and their effect on the teaching, learning, communication, and problem-solving styles in the school setting. Students have the opportunity to assess, diagnose, and construct treatment plans for working with families from diverse cultures.

GC 755 Marriage and Family Counseling (3.00 cr.)

Designed to help counselors and other mental health workers and educators learn what makes marriage work. Students learn what makes a marriage fall apart and what binds it together. Starting with an overview of system theories, this course identifies the principles of counseling couples and families with school age children. Class members become familiar with the stages of marriage and family life cycle development. The course's main focus is on the various intervention strategies designed to help couples and families reorganize and achieve cohesion, balance, and direction for continued growth, change, and stability.

GC 760 Counseling Supervision Internship (3.00 cr.)

Principles and practices of modern supervision with special emphasis on empowerment in supervision. Provides the opportunity for study and application of theory and techniques in counselor supervision. Methods include individual and group supervision, evaluation of audio and videotaped supervision sessions, personal log, and modelling. Uses readings in supervision chosen for their relevance to the individual's experience as counselor supervisor to enhance the practical experience.

GC 761 Divorce, Single, and Remarried Families and School Interventions (3.00 cr.)

Designed to help teachers, counselors, and mental health workers gain an awareness and respect for the resilience and strengths of today's diverse types of families. After reviewing the current demographic, economic, sociological, and psychological data on family patterns of reorganization, it will teach strategies to construct specific, concrete family systems' school interventions to help students learn and achieve successfully. Class members work in small groups and have the responsibility to assess, diagnose, and construct practical inter-

ventions for working with children from different types of family organizations.

GC 766 Families with Children and Adolescents, Juvenile Delinquency, and At-Risk Issues (3.00 cr.)

Examines the role of parents in rearing, disciplining, supporting, protecting, and educating their children using the parenting techniques of Adler and Dreikurs as well as various therapeutic family approaches and techniques. Teaches students to reframe the family's negative labels and pathology from problems to opportunities for growth and development. Practical emphasis teaches school counselors to empower parents and develop plans of action for solving problems preventing a family's growth and development. Ethnic origin, cultural adaptation, organization, cohesion, life-cycle development, resources, communication patterns, values, and norms are considered.

GC 767 Family Systems and Special Children (3.00 cr.)

Examines the educational, emotional adjustment, and developmental issues involving children, families, and school staffs. Participants become aware of the educational challenges facing families with children in special education. Working in groups, class members examine the critical learning tasks of the gifted and talented, emotionally impaired, physically challenged, learning disabled, and other special needs populations. Personal lifespaces interviews will be conducted with students, parents, and teachers in special education. Grief and loss issues will be identified. Participants make recommendations for school program improvements and develop concrete interventions to help families and school staffs adapt to meet the challenges and legal requirements of PL 94-142 and federal legislation. Finally, class members develop a referral source for community programs, associations, and networks.

GC 772 Careers and Dual Careers and Family and Life Cycle (3.00 cr.)

Prerequisite: GC 701, GC 704, GC 708. Focuses on the career issues that impact on the family life cycle and life-styles. Investigates career issues such as: mid-life transitions, mental health, unemployment, occupational stress, job satisfaction, discrimination, sexism, and racism. Examines practical issues to remove the barriers facing dual career families: child care, transportation, parenting issues, health, and home/school collaboration. Students work in small groups to plan interventions that help families survive and thrive in their combined career and family roles and responsibilities.

GC 773 Diagnosis of Mental and Emotional Disorders (3.00 cr.)

Prerequisite: Completion of master's program or all master's courses except practicum. Students are expected to understand the use of diagnostic and multi-axial assessment. The DSM-IV classification system is used. Students are expected to complete multi-axial evaluations and report them using the multi-axial evaluation form of the DSM-IV.

GC 774 Advanced Counseling Techniques and Treatment (3.00 cr.)

Focuses on the design and implementation of advanced treatment strategies relative to diverse psychological disorder. Emphasizes the building of advanced counseling skills case studies. Demonstrations of treatment methods based on various theoretical positions are included.

GC 784 Alcohol and Drug Counseling (3.00 cr.)

Because children of alcoholics and drug addicts face a tremendous challenge in coping with the abuse and neglect of dysfunctional parents, success often suffers. Informed counselors and teachers can have tremendous influence and effect in supporting students and families in crisis. Reviews family literature on drug and alcohol abuse and investigates the demographic, economic, sociological, legal, and psychological data's impact on family functioning. Using family systems interventions, the class members means to assess student learning in school. A case study approach will be implemented.

GC 785 Death, Dying, and Aging in the Schools and Family System (3.00 cr.)

Investigates the impact of demographic, economic, sociological, legal, and psychological data on the organization and functioning of family systems. Particular attention placed on issues facing school-age children and how their grandparents' welfare affects their school achievement and family functioning. Also discusses divorce, single parenting, remarriages, geographical relocation, aging, death and dying. Class members use a case-study approach and assess, diagnose, and develop practical school interventions designed to help improve a student's school achievement and family functioning.

GC 786 Family Counseling Clinical Experience (3.00 cr.)

Prerequisite: Written permission of the coordinator of school counseling is required. The practicum and live supervision in family counseling is the culminating activity in the Family Counseling Program. Provides counselors with the opportunity to put into practice, in an actual school setting, the knowledge and skills learned in the program.

GC 789 Introduction to Family Counseling (3.00 cr.)

Introductory overview of the broad field of family counseling which seeks to familiarize school counselors with current models of family counseling. Course goal is to impact a systemic understanding of families from several different theoretical perspectives. Discussion centers on family models for the schools.

GC 791 School Counseling Practicum (3.00 cr.)

Prerequisite: GC 700, GC 701, GC 704, GC 706 (which may be taken concurrently). Students practice individual and group skills under the tutelage of a supervisor in a laboratory situation. Forty hours of direct service are required. Knowledge and skills acquired in GC 700, GC 701, GC 704, and GC 706 are practiced. A field study fee is charged.

GC 792 Professional Issues and Ethics in Counseling (3.00 cr.)

A seminar related to all aspects of professional life including issues of credentialing; licensure; and professional development, associations, and ethics. Studies the new ethical standards of the American Counseling Association as well as the ACA legal series. Covers principles of risk management.

GC 793 Psychoeducational Assessment I (3.00 cr.)

Prerequisite: ED 606. Written permission of instructor is required. An introduction to the administration, scoring, and interpretation of psychological and educational tests commonly used with school aged youth. Covers intelligence, aptitude, and achievement tests. A lab fee is charged.

GC 794 Psychoeducational Assessment II (3.00 cr.)

Prerequisite: ED 606. Written permission of instructor is required. An introduction to the administration, scoring, and interpretation of psychological and educational tests commonly used with school aged youth. Covers perceptual, behaviors, and personality tests. A fee is charged.

GC 795 Thesis Seminar (6.00 cr.)

Prerequisite: Written permission of the adviser is required. Students planning to propose a thesis topic enroll with their adviser's consent. Informal meetings, scheduled at the convenience of the participants and advisers, provide an opportunity for critical discussion of planned research. Participants receive credit upon successful completion of their thesis. Required for M.A. only.

GC796 Assessing School Counseling Programs (3.00 cr.)

Assesses the effectiveness of school counseling programs in supporting the AACPS' Department of Instruction and

Student Services' Improvement Plan's Objectives for student achievement, parent involvement, and safe schools.

MONTESSORI**MO 599 Montessori Elementary Preparatory Course (0.00 cr.)**

The prerequisite course gives the prospective elementary student an overview of the content of the primary course. Montessori's theory of human development during the first six years of life is given extensive treatment. All basic elements of the activities offered to the child in a primary class are touched upon but are not fully developed. A fee is charged. (Pass/Fail)

MO 628 Practicum (6.00 cr.)

By working along with a qualified Montessori teacher in a children's group, students may practice in "slow motion" the various tasks which a Montessori teacher does. Student-teachers may discern which facets of their personalities are appealing to young children and which are antagonistic to this stage of development.

MO 630 Human Relations and Self-Awareness among Young Children (3.00 cr.)

To show by demonstration and lecture a group of activities known in Montessori education as the practical life exercises. These exercises are designed to enable independent functioning, social grace, and self-esteem among children of three to six years of age. Content includes development of coordinated movement, health, safety in both indoor and outdoor environments, and play (spontaneous, free choice of activities).

MO 631 Language Arts/Reading Curriculum and Instruction (3.00 cr.)

To provide information about the development of spoken and written language in the areas of daily life, story telling, composition, literature, geography, history, biology, science, music, art, as well as the functional aspects of grammar, syntax, and reading analysis.

MO 632 Mathematics and Science Curriculum and Instruction (3.00 cr.)

To show by demonstration and lecture the exercises of mathematics and science which give sensorial foundations for counting, arithmetic, geometry, algebra, and fractions of whole numbers, as well as for biological and physical science experiences appropriate for young children.

MO 633 Creative Activities (Music, Art, Movement, and Drama) (3.00 cr.)

To focus on developing potentialities as the basis for designing learning experiences in art, music, movement, drama, and literature. Students will research, design, and demonstrate appropriate materials and activities in each of these areas.

MO 634 Foundation of the Montessori Method (3.00 cr.)

To give a survey of the development of the young child in accordance with the psychology of Maria Montessori and the philosophy of the Montessori Method. Particular emphasis is given to children three to six years old.

MO 635 Perceptual-Motor Development (3.00 cr.)

To show by demonstration and lecture a group of activities known in Montessori education as Exercises for the Education of the Senses that are designed to lead the child to an intelligent and imaginative exploration of the world. Content includes identification of a child's process of classifying his/her world, problem solving, and critical thinking.

MO 636 Teaching Strategies and Social Development (3.00 cr.)

To research teacher-learner interaction, analyze planning techniques and learning environments, general classroom management, interpersonal relationships.

MO 637 Psychology and Philosophy of the Montessori Method (2.00 cr.)

Provides a study of child psychology and child development from a Montessori perspective, including an historical overview of Dr. Montessori's work which led to the development of Montessori pedagogy.

MO 638 Child Growth and Development I (3.00 cr.)

Focuses on the psychological, physical, social, and cognitive development of children from conception through one year.

MO 639 Child Growth and Development II (2.00 cr.)

Focuses on the psychological, physical, social, and cognitive development of children from one to three years of age.

MO 640 Creating Healthy, Safe Environments for Infants (3.00 cr.)

Focuses on how to assist caregivers in creating environments which support optimal development in infants.

MO 641 Creating Healthy, Safe Environments for Toddlers (3.00 cr.)

Focuses on how to assist caregivers in creating environments which support optimal development in toddlers.

MO 642 Developmentally Appropriate Practices for Infants (4.00 cr.)

Students learn the rationale for application of Montessori-based developmental materials for children from birth to one year.

MO 643 Developmentally Appropriate Practices for Toddlers (3.00 cr.)

Students learn the rationale for application of Montessori-based developmental materials for children from one to three years.

MO 644 Working with Parents and Families of Young Children (1.00 cr.)

Students are given guidelines for the implementation of effective parent education. They create and present sample programs for peer review.

MO 645 Montessori Observation and Practicum (6.00 cr.)

Provides guided observations of children from birth to three years in a minimum of three selected sites. The emphasis is on developing skills in observation and assessment and the ability to implement developmentally appropriate practices with infants and toddlers.

MO 646 Foundations of the Montessori Method (2.00 cr.)

To give a survey of the development of the young child in accordance with the psychology of the child proposed by Dr. Maria Montessori. To give an overview of the principles underlying Montessori pedagogy. Particular emphasis is directed to children six to twelve years of age.

MO 647 Montessori Classroom Methods (3.00 cr.)

To communicate the principles of classroom management for six- to twelve-year-old children that are derived from the philosophical and pedagogical ideas of Dr. Montessori.

MO 648 Laboratory: Using Montessori Materials (3.00 cr.)

Provides the opportunity for the individual student to practice with the developmental and didactic materials. Students develop skill in handling the materials and in giving presentations and work through individual difficulties in technique and understanding.

MO 649 Language Curriculum and Instruction**for the Elementary Years (2.00 cr.)**

To show by demonstration and lecture the presentations for the development of spoken and written language, as well as the important functional aspects of grammar that are appropriate for children from six to twelve years of age.

MO 650 Art Curriculum and Instruction**for the Elementary Years (1.00 cr.)**

To show by demonstration and lecture the scope of expression opportunities through art appropriate for children between the ages of six to twelve.

MO 651 Mathematics Curriculum and Instruction**for the Elementary Years (5.00 cr.)**

To show by demonstration and lecture presentations of arithmetic and geometry which provide the child with understanding of and proficiency with key ideas in mathematics. Links between arithmetic and geometry are explored, and the importance of problem solving is stressed. The use of a computer is introduced as a support mechanism for the child's exploration of mathematics.

MO 652 Physical and Biological Science**Curriculum and Instruction
for the Elementary Years (2.00 cr.)**

This is a two-part course. Part I will show by demonstration and lecture the presentations of biology which are designed to give an understanding of the life on earth. Part II will show by demonstration and lecture the presentations of physical and political geography which are designed to give an understanding of the interdependencies of the earth and life upon it.

MO 653 Social Studies Curriculum and Instruction**for the Elementary Years (2.00 cr.)**

To show by demonstration and lecture the presentations of social studies, which give an understanding of the origins and development of the universe and of the human being's relationships to this development.

MO 654 Music/Movement Curriculum and**Instruction for the Elementary Years (1.00 cr.)**

This is a two-part course. Part I will show by demonstration and lecture the scope of expression opportunities in music appropriate to children between the ages of six to twelve. Part II will show by demonstration and lecture the scope and importance of movement, nutrition, and physical exercise for the development of mind and body health of children between the ages of six to twelve.

MO 655 Practicum**(6.00 cr.)**

To give the student the opportunity to practice Montessori pedagogy with children in a classroom under the supervision of a qualified Montessori teacher.

READING/SPECIAL EDUCATION**RS 507 Diagnosis of Reading Disorders
for Exceptional Students****(Focus: Grades 6–12) (3.00 cr.)**

Major emphasis on the assessment and diagnosis of reading disabilities. Also emphasizes the use of standardized and informal tests of reading, spelling, and writing in diagnosis. The construction of a testing manual is an essential part of the course which provides the student with a useful diagnostic tool which may be expanded as future needs arise.

RS 508 Language Development**(3.00 cr.)**

Surveys language development from infancy through high school. Emphasis on developmental theory, language skills required for school success, and patterns of delayed or deviant development.

RS 510 Foundations of Reading Instruction (3.00 cr.)

A basic course in reading. Lectures and demonstrations constitute course procedures. Emphasizes evaluation techniques, reading approaches, word recognition and analysis procedures, comprehension abilities, and current trends.

RS 679 Administering the Special Education**Program (3.00 cr.)**

An overview of the administrative requirements under the federal and state laws governing special education. Specific emphasis on the role of the individual principal.

RS 720 Human Growth and Development (3.00 cr.)

An in-depth review of theories and issues involving the growth and development of human beings from conception through adolescence. More specifically, numerous developmental theories incorporating the perspectives of biology, learning, psychoanalysis, and cognition are examined. Further, current trends in research involving young children are highlighted and related issues explored to provide students with the knowledge and awareness of how factors can affect human growth and development at any stage of life. Students have several opportunities to both respond to essay questions and develop thought papers using information learned from the text, class discussions, guest presentations, and findings from quantitative and qualitative research investigations.

RS 721 Mental Hygiene for the Classroom Teacher (3.00 cr.)

Elements which affect the mental health of both student and teacher. Topics include teacher stress, the student problems of child abuse, neglect, drug and alcohol abuse, absenteeism, aggression, and withdrawal. Emphasizes self-awareness activities, communication skills, problem-solving techniques, and methods of conflict resolution.

RS 722 The Use of Literature in the Language Arts Program (3.00 cr.)

Incorporates the latest research and methods of teaching through children's literature. Develops techniques for using literature to complement language arts. Participants develop a file of literature with skills for their appropriate teaching level.

RS 723 Language Development (3.00 cr.)

Surveys language development from infancy through high school. Emphasizes developmental theory, language skills required for school success, and patterns of delayed or deviant development. *Same course as ED 666.*

RS 724 Classroom Techniques in Language Arts (3.00 cr.)

Incorporates the latest research and methods of teaching writing, spelling, and listening in the classroom. Participants develop a file of activities appropriate to their teaching level.

RS 725 Literature for the Adolescent (3.00 cr.)

An overview of current literature published for the adolescent. Emphasis on teaching the novel, short story, poetry, and drama. Discussions center on such topics as bibliotherapy, multicultural literature, class readings.

RS 726 Instructional Strategies for Math Disabilities (3.00 cr.)

Strategies for teaching math to exceptional children at the elementary level. Discussion of formal and informal assessments.

RS 731 Classroom Techniques in Reading (3.00 cr.)

Emphasizes the importance of developing reading skills as an integral part of the language art—listening, speaking, reading, and writing. Particular attention given to the reading, writing, and listening connection. Discusses general classroom strategies, including the use of computer technology in reading, appropriate to grades K–8 reading program.

RS 733 Introduction to Teaching Reading in the Content Area (3.00 cr.)

Emphasizes the interactive nature of the reading process in content areas. Particular attention given to the link between assessment and instruction, the significance of vocabulary/concept development, and various strategies for gaining information from text and developing intrinsic motivation students.

RS 735 Reading Instruction for the Gifted (3.00 cr.)

Prerequisite: RS 510. Procedures and strategies necessary for implementing an individualized reading program. Specifically, the teacher's/student's role, record keeping systems, conference techniques, assessment procedures during the conference, and organization. Students analyze the current research on comprehension development and what the implications are for in-depth development of the comprehension/thinking ability of gifted students.

RS 736 Classroom Techniques in Written Expression (3.00 cr.)

Provides an overview of the writing process; integrates research and theory about reading/writing connections and writing across the curriculum. Emphasis given to the process of writing and the quality of compositions. Includes practical strategies for teaching written expression. Discusses eight writing forms: journal, descriptive, letter, biographical, expository, narrative, poetry, and persuasive. Also addresses the assessment of written expression. *Same course as ED 736.*

RS 737 Assessment and Diagnosis of Reading Disorders for Students with Special Needs (3.00 cr.)

Prerequisite: RS 510. Major emphasis on the assessment and diagnosis of reading disabilities. Emphasizes the use of standardized and informal tests of reading, spelling, and writing in diagnosis. Construction of a testing manual is an essential part of the course which provides students with a useful diagnostic tool which may be expanded as future needs arise.

RS 738 Remedial Reading and Writing Techniques for Students with Special Needs (3.00 cr.)

Prerequisite: RS 510. Alternative techniques for children with severe reading disabilities. Develops thorough understanding of multisensory techniques such as the Gillingham and Fernald methods, as well as other procedures used with disabled readers. Students become familiar with the development and writing of individual educational plans (IEPs).

RS 739 Advanced Assessment and Diagnosis of Reading and Learning Disorders for Students with Special Needs (3.00 cr.)

Prerequisite: RS 737. Advanced clinical procedures. Emphasis on the preparation and writing of case studies which include the interpretation of psychological and educational tests, evaluation of specific strengths and weaknesses, and formulation of recommendations that could be incorporated into the classroom and/or resource room situation.

RS 740 Role of the Reading Specialist (3.00 cr.)

Prerequisite: RS 510 or written permission of the adviser is required. Examines the role of the reading specialist as it relates to the school staff and reading instruction. Also emphasizes current trends.

RS 741 Teaching Reading Comprehension: Research Findings (3.00 cr.)

Prerequisite: RS 510 or written permission of the adviser is required. Research focuses on the comprehension and thinking development of students when involved in the reading process. Students develop an internal comprehension assessment tool. Contemporary research findings focus on variables influencing comprehension, classroom instructional practices, and strategies for improving comprehension abilities. Discusses research from the Center for Study of Reading at the University of Illinois.

RS 742 Field Study in Reading (3.00 cr.)

Prerequisite: Written permission of the adviser is required. Under the guidance of a Department of Education staff member, students conduct an independent project designed to facilitate a meaningful integration of the components of the reading program.

RS 743 Advanced Study in Reading (1–4.00 cr.)

Prerequisite: Written permission of the adviser is required. Individual projects geared to specific needs or interests of students. Specific requirements related to each independent study approved on an individual basis.

RS 744 Reading, Writing, and Study Skills in the Content Area (3.00 cr.)

Designed for teachers of content subjects. Provides an application of current theory and research into the teaching of reading, writing, and study skills to the classroom situation. Through the development of assessment techniques and awareness of individual differences of students, teachers develop a knowledge base

which allows for the teaching of various strategies necessary for the understanding of content material.

RS 745 Introduction to Substance Abuse in the Schools (3.00 cr.)

A survey of why, when, and how substances such as alcohol and drugs are abused by children and youth. Emphasis on understanding the nature of abuse and how school personnel can respond appropriately. Helpful to teachers, counselors, and administrators.

RS 746 Identification and Intervention of Substance Abuse in the Schools (3.00 cr.)

Strategies and methods for teachers and other school personnel to identify, refer, and help students who are abusing drugs or alcohol. Emphasis on effective ways to work with these students and on available community services.

RS 747 Community Resources Serving Alcohol and Substance Abusing Children and Youth (3.00 cr.)

Prerequisite: RS 745 and RS 746, or written permission of the instructor is required. Identifies the community resources involved in serving alcohol and substance abusers of school age. Explores the advantages and disadvantages of various treatments and approaches through on-site visits to both in- and outpatient care facilities in Baltimore.

RS 748 Medical Aspects of Alcohol and Substance Abuse in Children and Youth (3.00 cr.)

Surveys the effects of alcohol and other drugs on the developing fetus, newborn, school-aged child, and adolescent. Particular emphasis on the physical and psychological ramifications of use, abuse, and addiction in children and youth.

RS 751 Orientation to Early Childhood Special Education (3.00 cr.)

Provides students with an introduction to the history, rationale, legal basis, current status, and contemporary issues related to early intervention services for infants and young children with disabilities and their families. Students identify etiologies and potential risk factors for exceptionalities; available service delivery options for young children and families; program models for service delivery; issues affecting parents and families; professional resources; professional responsibilities and ethical obligations; and career opportunities in the field of early intervention.

RS 752 Curriculum for Young Children with Special Needs at the Infant/Preschool Level (3.00 cr.)

Prerequisite: RS 751 or written permission of the instructor is required. An in-depth review of available curricula for young children with special needs and ways to implement “best practice” intervention strategies with young children and their families. The course includes dyadic discussions and readings on topics central to an adequate understanding of the conceptual and theoretical foundations underlying current educational and therapeutic models of intervention, including existing curricula designed for use with infants and young children with special needs. Through course lectures, readings, and activities, students acquire skills in planning and implementing programs for young children with special needs and their families. Further, students develop competencies in designing appropriate environments for skill acquisition; educational/developmental programs (IEP/IFSP); schedules and routines for all service delivery settings; and strategies to facilitate interdisciplinary and multidisciplinary functioning. Strong emphasis is placed on integrating current research with early intervention “best practice.”

RS 753 Assessment of Young Children with Special Needs at the Infant/Preschool Level (3.00 cr.)

Prerequisite: RS 751 or written permission of the instructor is required. Provides students with an in-depth review of formal and informal evaluation procedures for young children with special needs and their families. Assessment procedures are related to the four major functions of assessment: screening, diagnosis/eligibility, program planning, and program evaluation. Course readings focus on procedural considerations in assessing cognition, motor skills, communication, play, socialization, behavior, and adaptive skills in infancy and early childhood. Issues of test development, standardization, reliability, validity, and report writing are explored. Students examine the challenges in both assessing infants and young children with disabilities and using assessment data to design appropriate interventions that meet the on-going needs of the child and family. Throughout the course, strong emphasis is placed on integrating current research with early intervention “best practice.”

RS 754 Parent-Professional Partnerships (Focus: Birth to Age 5) (3.00 cr.)

Prerequisite: ED 600, RS 751, or written permission of the instructor is required. Focuses on the collaboration of spe-

cial educators, related service personnel, and parents in planning and implementing developmentally appropriate educational and therapeutic programs for individuals from birth to high school. Students explore techniques and procedures for facilitating positive interdisciplinary communication and cooperation and for working effectively with parents. In addition, this course reviews research on parental/professional attitudes and responsibility and presents information on accessing available school and community services. Content also focuses on the historical and legal foundations for parent participation in the special education process and family systems theory, as well as the implications it has for service delivery. Students apply course content to a variety of hands-on opportunities, including a case study involving a designated child or student with a disability and the individual’s family.

RS 758 Practicum in Reading (Focus: Grades K–12) (3–6.00 cr.)

Prerequisite: RS 739 or written permission of the adviser is required. An application course requiring students to diagnose and program for students with reading and/or other learning problems. Emphasizes use of appropriate assessment and instructional strategies focusing on the specific needs of the learner at the elementary and secondary level.

RS 759 Current Issues in Reading and Language Arts (3.00 cr.)

Prerequisite: ED 600. Restricted to reading majors. Pursues current topics related to reading and other language arts. Written and oral presentations of vital research constitute the course material.

RS 761 Introduction to Special Education (3.00 cr.)

Students identify and describe major philosophies, theories, and trends in the field of special education. Topics include cultural impact, delivery of service, and past to present knowledge and practices. For each area of disability, students become familiar with general information on etiology, characteristics, interventions, technology, and research. Students demonstrate understanding of issues related to the assessment, identification, and placement of students with various exceptionalities. In addition, students are expected to identify the various local, state, and federal laws and regulations relative to rights and responsibilities, student identification, and delivery of services.

RS 769 Teaching Students with Special Needs**(Focus: Grades K–8) (3.00 cr.)**

Strategies and materials for teaching exceptional students in the regular classroom. Emphasis on recognizing learning and behavioral characteristics, and on meeting those challenges in the mainstream of the elementary school.

RS 770 Parent-Professional Partnerships in Special Education**(Focus: Grades K–8) (3.00 cr.)**

Prerequisite: ED 600, RS 761, or written permission of the adviser is required. Focuses on the collaboration of special educators, related service personnel, and parents in planning and implementing developmentally appropriate educational and therapeutic programs for individuals from birth to high school. Students explore techniques and procedures for facilitating positive interdisciplinary communication and cooperation and for working effectively with parents. In addition, this course reviews research on parental/professional attitudes and responsibility and presents information on accessing available school and community services. Content also focuses on the historical and legal foundations for parent participation in the special education process and family systems theory, as well as the implications it has for service delivery. Students apply course content to a variety of hands-on opportunities, including a case study involving a designated child or student with a disability and the individual's family.

RS 780 Practicum for Students with Special Needs (Infant/Toddler) (3–6.00 cr.)

Prerequisite: Written permission of the adviser is required. An application course requiring students to diagnose and program for young children with mild to severe disabilities. Emphasizes appropriate assessment, instructional strategies, and parent education, focusing on the specific needs of the learner at the infant/toddler level. *A field study fee is charged.*

RS 781 Practicum for Students with Special Needs (Preschool) (3–6.00 cr.)

Prerequisite: Written permission of the adviser is required. An application course requiring students to diagnose and program for young children with mild to severe disabilities. Emphasizes appropriate assessment, instructional strategies, and parent education, focusing on the specific needs of the learner at the preschool level. *A field study fee is charged.*

RS 782 Processes and Acquisition of Reading (3.00 cr.)

Emphasizes current research, language development, phonemic awareness, phonics, the components of the reading process, and cross-curricular connections as they relate to the acquisition of reading.

RS 783 Instruction of Reading (3.00 cr.)

Emphasizes a variety of strategies and techniques in order to provide explicit and systematic instruction in word recognition and comprehension. Particular attention given to the components of a balanced literacy program providing developmentally appropriate instruction to all students while also fostering positive attitudes and perceptions regarding all aspects of literacy.

RS 784 Materials of Reading (3.00 cr.)

Students become familiar with both classic and modern literature that would appeal to students K–8. Techniques for stimulating imaginative thought, extending key ideas, and developing reading interest in children are discussed and implemented. Strategies are provided to help teachers and parents use school and community resources in order to help their children with reading comprehension and enjoyment. Additional topics for discussion include bibliotherapy, cross-curricular connections, and the role of the media in supporting reading.

RS 786 Developmental and Remedial Strategies for Reading and Mathematics (Elementary/Middle) (3.00 cr.)

Instructional strategies in reading and mathematics for students with mild learning behavioral disorders. Addresses the use of computers for this population, as well as current trends in instructional methodology.

RS 794 Diagnosis and Remediation of Arithmetic Disabilities (3.00 cr.)

Principles of diagnosis and remediation; experience with formal and informal tests used to diagnose learning problems in arithmetic; evaluation of techniques and materials.

RS 798 Advanced Study in Special Education (3.00 cr.)

Prerequisite: Written permission of the adviser and chair is required. Individual projects geared to specific needs or interests of the student. Specific requirements related to each independent study are approved on an individual basis.

RS 823 Strategies for Communication Development (Focus: Birth to Age 5) (3.00 cr.)

Prerequisite: RS 751 or written permission of the instructor is required. An in-depth review of communication develop-

ment in early childhood and methods for assessing communication development of infants and young children with disabilities. A major focus is on the development of appropriate developmental/educational interventions to enhance the development of speech, language, and communications skills. Content addresses administration of formal and informal assessments; family interviewing, development of IFSP/IEP outcomes; designs and implementations of developmental intervention strategies for communication-related difficulties; and “best practice” principles for working with young children and their families. A case study requires that students work with an infant or young child with communication-related difficulties and the child’s family.

RS 831 Classroom Techniques in Reading
(Focus: Grades 6–12) (3.00 cr.)

Emphasizes the importance of developing reading skills as an integral part of the language arts—listening, speaking, reading, and writing. Particular attention given to the reading, writing, listening connection. Discusses general classroom strategies, including the use of computer technology in reading appropriate to the 6–12 reading program.

RS 832 Classroom Techniques in Reading
(Focus: Grades 1–8) (3.00 cr.)

Emphasizes the importance of developing reading skills as an integral part of the language arts—listening, speaking, reading, and writing. Particular attention given to the reading, writing, listening connection. Discusses general classroom strategies, including the use of computer technology in reading appropriate to the 1–8 reading program.

RS 857 Practicum for Students with Special Needs
(Focus: Grades 1–8) (3–6.00 cr.)

Prerequisite: RS 739 or written permission of the adviser is required. An application course requiring students to diagnose and program for students with learning problems. Emphasizes use of appropriate assessment and instructional strategies focusing on the specific needs of the learner at the elementary/middle level. *May be repeated for credit depending on focus of grade level. A field study fee is charged.*

RS 858 Practicum for Students with Special Needs
(Focus: Grades 6–12) (3–6.00 cr.)

Prerequisite: RS 739 or written permission of the adviser is required. An application course requiring students to diagnose and program for students with learning problems. Emphasizes use of appropriate assessment and instructional strategies focusing on the specific needs

of the learner at the secondary level. *May be repeated for credit depending on focus of grade level. A field study fee is charged.*

RS 859 Current Issues in Reading and Language Arts (3.00 cr.)

Prerequisite: ED 600 or written permission of the adviser is required. Pursues current topics related to language arts. Written and oral presentations of vital research constitute the course material.

RS 861 Practicum for Students with Special Needs (3–6.00 cr.)

Prerequisite: Written permission of the adviser is required. An application course requiring students to diagnose and program for students with learning problems. Emphasizes use of appropriate assessment and instructional strategies focusing on the specific needs of the learner at the appropriate age/level. *A field study fee is charged.*

RS 869 Teaching Students with Special Needs
(Focus: Grades 6–12) (3.00 cr.)

Strategies and materials for teaching exceptional students in the regular classroom. Emphasis on recognizing learning and behavioral characteristics and meeting those challenges in the mainstream of the school.

RS 879 Seminar in Special Education (3.00 cr.)

Prerequisite: 27 program credits completed or written permission of the instructor is required. Focuses on the critical issues and emerging concerns of the special education field. Individual areas of student interest are explored in a round-table format.

RS 900 Observation and Participation in Special Education (3–6.00 cr.)

Prerequisite: Written permission of the adviser is required. Provides practical in-classroom experience with children in various special education placements.

RS 901 Advanced Human Development through the Life Span (3.00 cr.)

Prerequisite: Written permission of the adviser is required. Studies human behavior through the life span. Aging, career, marriage, and other processes are examined developmentally. Considers both normal and abnormal processes.

RS 903 PDS 1: Special Education (3.00 cr.)

An overview of the role and responsibilities of the special educator in today’s schools. Students spend 90 hours in a preprofessional development school involved in hands-on participation with special and regular needs children and teachers, as well as attending ARD meetings,

collaborative planning sessions, and required in-school seminars on specific topics. Students keep reflection logs, start a portfolio, and develop lesson plans. Designed for students who are new to Education. Meets the special education program prerequisite observation requirements for both regular and special education.

RS 905 Characteristics of Learners with Mild and Moderate Disabilities (3.00 cr.)

Prerequisite: RS 761. Students demonstrate knowledge of high incidence disorders typically resulting in mild or moderate disabilities. Topics include in-depth study of characteristics and course of atypical growth and development patterns, similarities and differences among and between disabilities, and the lifelong impact of these disabilities. Educational, social, behavioral, and other issues specific to LD, MR, and E/BD are covered in detail, including overlapping disabilities and associated problems.

RS 906 Developmental, Remedial, and Corrective Reading (3.00 cr.)

Prerequisite: RS 510 or written permission of the instructor is required. Provides an overview of reading instruction including the K–12 curriculum, developmental reading approaches, and various reading instructional methods. Students demonstrate an understanding of the relationship between reading and language. Various instructional techniques and strategies to develop reading ability and comprehension are demonstrated. Current research in reading instruction is also covered.

RS 907 Developmental, Remedial, and Corrective Mathematics (3.00 cr.)

Provides an overview of math instruction for the K–12 curriculum. Students demonstrate knowledge of a variety of math instructional techniques and methods, and are able to determine the appropriateness of these techniques in creating and implementing a balanced math program. Current research in the area of math instruction is reviewed.

RS 908 Comprehensive Language Development: Methods and Resources for Teaching Students with Special Needs (3.00 cr.)

Prerequisite: RS 720, RS 761 or written permission of the adviser is required. Students demonstrate knowledge of typical language development as well as K–12 curricula in the areas of spelling, handwriting, and written language. Developmental, remedial, and compensatory techniques are reviewed for the areas above, as well as for oral language and listening skills. Students demonstrate various instructional methods and strategies to promote

or correct language difficulties, and identify, access, evaluate, develop, and modify instructional resources. Current findings in language research are examined.

RS 909 Science and Social Studies: Content, Methods, and Modifications for Students with Mild and Moderate Disabilities (3.00 cr.)

Prerequisite: RS 761. Students review the instructional domains of science and social studies as currently taught in elementary schools, and describe teaching methodologies typical to regular educational settings. Students understand the role of the special educator in preparing and using curricular modifications for content instruction in both team taught and self-contained settings. Development of lesson plans incorporating adaptations, accommodations, and technological resources is required. Methods to promote reading and writing across the curriculum are demonstrated.

RS 911 Assessment, Diagnosis, and Evaluation of Learning and Behavior Problems (3.00 cr.)

Prerequisite: RS 761, RS 905, RS 906, RS 907, RS 908 or written permission of the instructor is required. Students demonstrate a thorough understanding of the role of the assessment process in education. The content addresses the principles and ethics related to test selection, formulation of diagnoses, and development of appropriate educational programs. Students become familiar with a variety of informal and formal assessment techniques (norm-referenced, criterion-referenced, curriculum-based, and authentic measures). Opportunities to administer, score, and interpret such measures, as well as to demonstrate awareness of the ethical and legal requirements, roles of professionals, and the implications of culture and diversity in the assessment process.

RS 912 Instructional Planning, Adaptations, and Learning Strategies for Students with Special Needs (3.00 cr.)

Prerequisite: RS 761, RS 906, RS 907, RS 908, RS 909 or RS 917, RS 911. Students demonstrate knowledge of IEP development including measurement, maintenance, and revision. Students construct goals and objectives using assessment information and input from parents and other professionals. Students select and/or modify curriculum and materials and design instructional programs to include appropriate adaptations and accommodations to meet the unique needs of individuals. Students describe the importance of learning environments (e.g., grouping techniques), learning styles, and individual differences and design instruction that encour-

ages motivation and active participation. Lesson planning, critical presentation skills, and various individual and group teaching methods are modeled and rehearsed. The integration of curricula and the use of technology and adaptive equipment are also demonstrated.

RS 913 Comprehensive Classroom Management for Teachers of Students with Special Needs (3.00 cr.)

Prerequisite: RS 761, RS 905 or written permission of the instructor is required. Students demonstrate knowledge and understanding of the various models, theories, and principles of behavior management. Students recognize the impact of student cultural background, classroom environment, and instruction on classroom behavior as well as the importance of effective rules, routines, and logical consequences. Social skill development and instruction are modeled. Students create behavioral intervention plans using skills such as selecting target behaviors, measurement and recording techniques, strategies for increasing or decreasing behavior, and evaluating plan effectiveness.

RS 914 Communication, Collaboration, and Consultation with Parents and Professionals Serving Students with Disabilities (3.00 cr.)

Prerequisite: RS 761. Students become familiar with parents' needs and concerns and demonstrate the ability to communicate with parents, as well as assist and encourage them to become active participants in the educational process. Students demonstrate understanding of parent rights, ethical concerns, and professional practices. Students explain the various roles and responsibilities of special and regular educators, other professionals, and parents. Students demonstrate the principles and techniques of collaboration and consultation necessary to work effectively with interdisciplinary teams and the ability to use various models of service delivery including inclusive education, resource services, team teaching, consultation, and itinerant programming.

RS 915 Diagnosis and Intervention in Reading Disorders (3.00 cr.)

Prerequisite: RS 510, RS 906. Students administer and interpret formal and informal measures to evaluate reading problems in a classroom or clinical setting. Individual case studies are used to emphasize both causal and/or inhibiting factors in reading disability as well as in the analysis of the reading problem. Students devise a program of appropriate remedial instruction in relation to diagnostic findings and develop recom-

mendations for parents and other teachers serving the specific child.

RS 916 Promoting Successful Transitions to Postsecondary Settings for Students with Mild and Moderate Disabilities (3.00 cr.)

Prerequisite: RS 761 and RS 912 or written permission of the instructor is required. After examining recent research on student outcomes, students review essential competencies in the areas of career/vocation, daily living, and recreation/leisure skills necessary for independent living. Students are expected to demonstrate skill in integrating instruction in these skill areas into the secondary curriculum. Students model skills necessary to work with a multidisciplinary team, assess student interests and aptitudes, and develop individualized transition plans.

RS 917 Instruction in Secondary Content Areas for Students with Mild and Moderate Disabilities (3.00 cr.)

Prerequisite: RS 761 or written permission of the instructor is required. Designed to familiarize students with the terminology, characteristics, curriculum models, specialized curriculum, and instructional materials for secondary students with mild and moderate disabilities. Students examine instructional environments serving special education students in inclusion, team-taught, resource, and content mastery settings. Learning strategies, study skills, critical thinking skills, educational assessment, interactive teaming, and self-determination are emphasized as they relate to IEP development and graduation requirements across the secondary content areas: math, social studies, science, and technology.

RS 918 Practicum I: Teaching Students with Special Needs (3.00 cr.)

Prerequisite: Written permission of the adviser is required. Students exhibit skills in the areas of assessment, observation, and data collection; evaluation/adaptation of curriculum and materials; instructional planning and delivery; classroom management; and collaboration, consultation, and communication with parents, teachers, and other professionals. Students demonstrate an awareness of the various ethical, legal, and interpersonal concerns (including cultural issues) and are expected to practice within the CEC Code of Ethics and Standards for Professional Practice.

RS 919 Practicum II: Teaching Students with Special Needs (3.00 cr.)

Prerequisite: Written permission of the adviser is required. Students exhibit skills in the areas of assessment, observation, and data collection; evaluation/adaptation of curriculum and materials; instructional planning and delivery; classroom management; and collaboration, consultation, and communication with parents, teachers, and other professionals. Students demonstrate an awareness of the various ethical, legal, and interpersonal concerns (including cultural issues) and are expected to practice within the CEC Code of Ethics and Standards for Professional Practice.

RS 921 Autism: Characteristics, Research, and Interventions (3.00 cr.)

An overview of autism and the variety of autism spectrum disorders. Students become familiar with common characteristics, symptoms, and differential diagnostic criteria of autism, Asperger's Syndrome, Fragile X, and other Pervasive Developmental Disorders. Current research findings related to etiology and increase in prevalence rates are examined. Students learn research-supported interventions for children with autism, including behavior modification, communication development strategies, social skill training, applied behavior analysis, discrete trial methods, and functional communication training. Special emphasis is placed on the educational implications for the student with autism and the professionals and paraprofessionals who serve them.

RS 922 Neurodevelopmental Aspects of Early Childhood Disabilities (3.00 cr.)

An overview of neurodevelopmental disabilities in infancy and early childhood, with a focus on neurologically-related disorders. Students examine aspects of medical care for premature, low birth weight, and other medically fragile babies and describe methods to care for technologically dependent children. Students examine atypical development of young children, with special attention given to motor domain. Educational and therapeutic interventions for infants and young children with physical and sensory disabilities, positioning techniques, and other effective ways to promote IFSP outcomes are demonstrated.

RS 923 Assessment and Intervention for Young Children with Special Needs: Birth through Age Two (3.00 cr.)

Prerequisite: RS 761. Focuses on the major philosophies, theories, and legislation in early childhood special education specific to children from birth through age two and their families. Topics include state and federal laws and regulations governing delivery of services to infants and toddlers and their families; collaboration strategies, family systems theory, cultural and linguistic diversity; and implications of both legislation and family needs on service delivery. Students learn assessment procedures related to screening, diagnosis, eligibility, program planning, and program evaluation and examine therapeutic models of intervention, including current curricula and materials for infants and toddlers.

RS 925 Assessment and Intervention for Young Children with Special Needs: Ages 5 to 8 (3.00 cr.)

Prerequisite: RS 761. Focuses on the major theories and practices of assessment and intervention in early childhood special education specific to children from ages five to eight. Students examine existing models of special education services delivery, including methods of collaboration with parents, general educators, paraprofessionals, and related service providers; curriculum-based, performance-based, and informal assessment of learning and behavior; assessment for and the use of assistive technology; as well as the implementation and modification of research-validated curricula and materials to meet the needs of all children.

COLLEGE OF ARTS AND SCIENCES

ENGINEERING SCIENCE

OFFICE: Donnelly Science Center, Room 125A
TELEPHONE: 410-617-2464

DIRECTOR: Paul J. Coyne, Jr., Professor
ASSISTANT DIRECTOR: Margaret A. Daley

PROFESSORS: Paul J. Coyne, Jr.; Arthur L. Delcher (emeritus); Wayne L. Elban; Roberta Evans Sabin; Robert D. Shelton; Bernard J. Weigman (emeritus)

ASSOCIATE PROFESSORS: David W. Binkley; Roger D. Eastman; Keith Brian Gallagher; Glenn S. Kohn

ASSISTANT PROFESSOR: Suzanne E. Keilson

INSTRUCTORS: Donald C. Dimitroff, F.S.C.; Michael D. French, S.J.

ADJUNCT FACULTY: Charles Alexander; Douglas A. Ashworth; Eileen K. Baust; Michael D. Bender; Howard Blumenfeld; John Cannella; John C. Carmody; David R. Cheslock; James J. Costabile; Douglas P. Dotson; Dennis P.

Dworkowski; Marco A. Figueiredo; William Hardenburg; Benjamin J. Hellstrom; Stephen D. Hendry; Alp Kayabasi; Randy J. Kelsey; Joseph Kovacic; Raymond Lloyd; James R. Means, Jr.; Brian L. Nastvogel; Anthony T. Nasuta; Gregory E. Patrick; Carl M. Powell; Thomas H. Powell; James Reeder; James Selway; Larry Shackelford; G. Lawrence Sprigg; Patrick Stakem; Vernon Williams; Gerald H. Zuelsdorf

The degree program leading to a Master of Engineering Science (M.E.S.) in Computer Engineering, Computer Science, or Electrical Engineering is being reconfigured. The College is no longer accepting students into the computer engineering or electrical engineering tracks. All students currently enrolled in these tracks will be given the opportunity to complete their degrees. The computer science track is undergoing review and will emerge under a new degree name during this academic year. Students may elect to transfer to the new degree program when it becomes available.

Courses for the M.E.S. in Computer Science are offered at the Columbia and Timonium Campuses. Courses for the M.E.S. in Computer Engineering and Electrical Engineering are offered only at the Columbia Campus.

ADMISSION CRITERIA

It is the policy of the Admissions Committee to give promising applicants the opportunity to undertake graduate work. A careful examination of an applicant's qualities precedes every admissions decision. The Committee looks for academic achievement by considering an applicant's undergraduate record and any advanced degrees. Possessing a degree in engineering or a related field is not a requirement for admission consideration. The Committee also highly regards employment history, significant accomplishments, a strong personal essay, and professional references.

Detailed admission information (application procedures, required documents, etc.) may be found in the Admission chapter of this catalogue.

APPLICATION DEADLINES

Fall Semester	September 1
Spring Semester	January 1
Summer Sessions	May 15

Applications may be submitted at any time and are reviewed on a rolling basis throughout the year. While students may be accepted after a deadline has passed, course availability cannot be guaranteed.

PREREQUISITES

Certain preparatory work is necessary for graduate study in engineering or computer science. Although a bachelor's degree is required for admission, an applicant need not have been an undergraduate engineering or computer science major. A year of general physics and calculus is required for students entering the computer engineering or electrical engineering track. A full year of college level mathematics is required of students entering the computer science track. Students who lack these prerequisites should obtain them before applying to the program.

CREDITS REQUIRED

The degree requirements for the M.E.S. in Computer Engineering, Computer Science, and Electrical Engineering are a minimum of eleven courses and a maximum of 15 courses.

DEGREE REQUIREMENTS

For an M.E.S. in Computer Science, Computer Engineering, or Electrical Engineering, students must complete four introductory, eight concentration, and three elective courses. A part-time student can complete the course of study in two and one-half to three years while a full-time student can do so in two or three semesters and a summer.

To complete the requirements for a degree in the program, the four introductory courses must be completed (or waived). Then students must complete eleven advanced courses consisting of eight track courses and three elective courses. For a second degree in the program, eight courses in the new track must be completed plus any required courses. Some courses for the first degree may satisfy requirements for the new track. If so, they need not be repeated. In any case, a minimum of six additional courses must be taken. Thus, a minimum of 17 advanced courses are necessary for two degrees.

Course offerings in the M.E.S. program are broken down into the following groups:

Computer Science Group	(CS Group)
Computer Engineering Group	(CE Group)
Electrical Engineering Group	(EE Group)
Elective Group	(E Group)

Students who wish to obtain the M.E.S. in Computer Science, Computer Engineering, or Electrical Engineering should complete eight courses in the appropriate track plus three courses from any group.

Before starting advanced courses in the M.E.S. program, students should have a proficiency in several areas of computer science and engineering. These areas include programming in a high level structured language, designing digital and analog circuits and the hardware/software interplay associated with microcomputer systems. Thus, all

students are required to either take or demonstrate a proficiency in some of these introductory courses:

Introductory Courses

- EG 600 Introduction to Digital Design
- EG 601 Introduction to Microprocessors
- EG 609 Introduction to Circuits and Electronics
- EG 610 Introduction to Structured Programming
- EG 613 Continuous-Time Signals and Systems
- EG 614 Introduction to Discrete Methods
- EG 620 Discrete-Time Signals and Systems
- EG 700 Structured Programming

Although these are graduate courses, they may be waived without replacement if the student has taken them as advanced undergraduate courses.

Laboratory Courses

- EG 681 Microcomputer Systems I Laboratory
(*Corequisite: EG 611*)
- EG 682 Microcomputer Systems II Laboratory
(*Corequisite: EG 612*)
- EG 691 Microprocessor Software Laboratory
(*Corequisite: EG 601*)

Computer Science Track (CS Group)

Introductory Courses

- EG 601 Introduction to Microprocessors
- EG 610 Introduction to Structured Programming
- EG 614 Introduction to Discrete Methods
- EG 700 Structured Programming

Required Advanced Courses

- EG 611 Systems Integration I
- EG 681 Microcomputer Systems I Laboratory
- EG 712 Advanced Data Structures

Plus **one** of the following Theory courses:

- EG 721 Compiler Theory
- EG 724 Algorithm Design

Plus **one** of the following Systems courses:

- EG 731 Operating Systems
- EG 783 Advanced Operating Systems: UNIX

Other Track Courses

EG 612 Systems Integration II
 EG 682 Microcomputer Systems II Laboratory
 EG 719 Local Area Networking
 EG 720 TCP/IP Architecture
 EG 730 Programming in Windows Using C/C++
 EG 732 Software Engineering
 EG 734 Data Base Design and Management
 EG 736 Wide Area Networks
 EG 738 Network Security
 EG 746 Artificial Intelligence
 EG 757 Coding and Information Theory
 EG 761 Expert Systems
 EG 762 Introduction to Network Engineering
 EG 766 Seminar
 EG 767 Ada
 EG 768 Neural Networks
 EG 772 Structured Testing
 EG 782 Campus/Metropolitan Area Networks
 EG 784 Programming in Windows Using Visual Basic
 EG 790 Computer Graphics
 EG 792 Object-Oriented Programming
 EG 795 Advanced Graphics
 EG 797 Internet Programming
 EG 799 Java Programming
 EG 800 Topics in Computer Science

Computer Engineering Track (CE Group)*Introductory Courses*

EG 600 Introduction to Digital Design
 EG 601 Introduction to Microprocessors
 EG 609 Introduction to Circuits and Electronics
 EG 610 Introduction to Structured Programming

Required Advanced Courses

EG 611 Systems Integration I
 EG 612 Systems Integration II
 EG 681 Microcomputer Systems I Laboratory
 EG 682 Microcomputer Systems II Laboratory
 EG 770 Hardware Description Language and Machine Design

Plus **one** of the following Design courses

EG 739 Computer Design
 EG 753 VLSI Design
 EG 781 Design and Simulation

Other Track Courses

EG 603 Automated Data Collection
 EG 607 Computer Architecture
 EG 719 Local Area Networking
 EG 720 TCP/IP Architecture
 EG 731 Operating Systems
 EG 736 Wide Area Networks
 EG 738 Network Security
 EG 758 The 68000 Microprocessor
 EG 762 Introduction to Network Engineering
 EG 766 Seminar
 EG 768 Neural Networks
 EG 769 RISC Architecture
 EG 773 Advanced VLSI Design
 EG 782 Campus/Metropolitan Area Networks
 EG 785 Projects in Embedded Control

Electrical Engineering Track (EE Group)*Introductory Courses*

EG 600 Introduction to Digital Design
 EG 609 Introduction to Circuits and Electronics
 EG 613 Continuous-Time Signals and Systems
 EG 620 Discrete-Time Signals and Systems

Required Advanced Courses

EG 705 Digital Signal Processing
 EG 740 Data Communications
 EG 742 Applications of Digital Signal Processing
 EG 779 Advanced Communication Theory

Other Track Courses

EG 710 Electro-Optics
 EG 719 Local Area Networking
 EG 720 TCP/IP Architecture
 EG 726 Control Theory
 EG 736 Wide Area Networks
 EG 738 Network Security
 EG 757 Coding and Information Theory
 EG 762 Introduction to Network Engineering
 EG 766 Seminar
 EG 768 Neural Networks
 EG 778 Image Processing
 EG 782 Campus/Metropolitan Area Networks
 EG 787 Adaptive Filters
 EG 788 Microwave and IR/Optical Systems I
 EG 789 Microwave and IR/Optical Systems II

EG 794 Speech Processing
EG 798 Wireless Communications

Elective Group (E Group)

Three electives are necessary to complete the credit requirements for the M.E.S. Candidates may choose any course in the engineering science curriculum including those listed below as electives. Electives include:

EG 622 Data Acquisition and Processing
EG 703 Systems Analysis
EG 729 Network Management
EG 747 Robotics
EG 751 Robotics Applications
EG 755 Thesis Seminar
EG 756 Thesis Research
EG 899 Independent Study

No comprehensive examinations are required for completion of the M.E.S.

WAIVERS

INTRODUCTORY COURSES

Introductory courses may be waived without replacement for students with strong academic backgrounds in the areas concerned. Waivers may be granted on the basis of prior coursework, successful completion of competency exams, or significant professional experience. Waiver of introductory courses must be applied for at the time of application for admission using the appropriate form.

REQUIRED COURSES

Required track courses may be waived with replacement for students with a strong academic background in areas concerned. Waivers may be granted on the basis of prior course work, successful completion of competency exams, or significant professional experience. When a course is waived, no credit is given toward the master's degree. The student does not have to take that particular course, but must substitute the credits from courses within the track from which the course was waived.

MASTER'S THESIS

The master's thesis gives students the opportunity to do in-depth study and research on a single topic. The master's thesis should exhibit those qualities associated with genuine research: scholarship, logical consistency, creativity, and comprehensiveness. After appropriate and extensive reading, the student who intends to write a master's thesis should submit a tentative proposal in writing.

With an adviser's approval, arrangements will be made to present the tentative proposal at a required thesis seminar. Having profited by the suggestions of the thesis seminar, the candidates must submit a revised thesis proposal, similar in format to the tentative proposal, to their adviser. Both the tentative and revised proposals must include a clear definition of the problem, a justification of the investigation, a review of the previous research, a description of proposed method of investigation, and a tentative bibliography.

When the formal thesis proposal has been approved by the director of the program and two readers, the student may begin work on the thesis. The student is expected to complete the thesis in such a way that the finished product may be judged suitable as a partial fulfillment of the requirements of the master's degree. The length of time it may take to complete this work depends upon the nature of the topic, the student's initiative, ability to write, and numerous other factors. The final draft of the thesis, which must conform to all format requirements, must be approved and signed by the readers and should be submitted in duplicate to the office of the director of the program on or before the date specified by the department. The copies of the thesis become the property of Loyola College.

A grade of *GL* (grade later) is entered on the transcript for each term in which the student is registered, and the thesis has not been completed; the final grade assigned for the thesis is entered at the end of the term in which the thesis has been accepted by the director. Students must register for Thesis Seminar (EG 755) and Thesis Research (EG 756), which constitute the required six credits of coursework.

INDEPENDENT STUDY

In order to register for an Independent Study (EG 899), students must submit a written proposal to an engineering science faculty member prior to the last day of registration. Proposed topics, which are normally discussed in advance with the professor, should permit study and/or laboratory work in considerable depth beyond the scope of a course offered in the engineering science curriculum. A proposal will include a description of the research project, a weekly plan of study, and a list of references. Proposals must be approved by the faculty member and the director. Independent study courses are usually three credits. Only one independent study course can be taken by a student while pursuing an M.E.S.

MBA ELECTIVE

Students may, upon consultation with an adviser, have the option of taking up to nine credits in the MBA program in the Sellinger School of Business and Management. For additional information, contact the MES program director, 410-617-2260 or the MBA Office, 410-617-5067.

COURSE DESCRIPTIONS**EG 600 Introduction to Digital Design (3.00 cr.)**

Covers basic concepts of digital logic including logic gates, flip flops, registers and counters. Discusses elements of design including Karnaugh maps and sequential theory. Also discusses integrated circuits of various logic families. Applications include fundamental design of a digital computer.

EG 601 Introduction to Microprocessors (3.00 cr.)

Prerequisite: EG 600. *Corequisite:* EG 691. A glimpse of different microcomputer systems. Compares assembly language techniques for different microprocessors. Discusses peripheral devices. Covers memory design, I/O design, interrupts, programming.

EG 603 Automated Data Collection (3.00 cr.)

Prerequisite: EG 609. Follows the flow of data from the point at which it is first available to the point where the system is finished with it and has acted properly depending on the data collected. Covers the conversion of a stimulus to an electronic signal (such as a temperature to a voltage) filtering; proper amplification of the electronic signal to bring it into the correct

voltage range; conversion of the analog voltage to a digital signal; transferring data to temporary storage; transfer rate of data, analysis of data; display of the data either graphically or otherwise; and conversion of digital output of the computer to an analog voltage which will drive various devices.

EG 607 Computer Architecture (3.00 cr.)

Prerequisite: EG 612, EG 682. Studies various types of computer architecture. Topics include the relationship of the CPU, clock/time, control, memory, serial and parallel I/O, programmable interrupts, DMA, hardware math packages, multiplexed data acquisition packages, and mass storage devices. Software preparation includes writing monitors and linking to editors and assemblers which are provided in firm ware. Laboratory-oriented with lecture being provided as new concepts are investigated.

EG 609 Introduction to Circuits and Electronics (3.00 cr.)

Acquaints students with properties of resistance, capacitance, inductance, diodes, transistors, linear electric circuits. Discusses the physical laws describing these phenomena and presents the fundamental theorems of linear circuit analysis. Laboratory and lecture cover the use of fundamental laboratory instruments such as multimeters, oscilloscopes, and signal generators. General physics and calculus are assumed.

EG 610 Introduction to Structured Programming (3.00 cr.)

An introduction to the basic concepts of computer organization and programming. Algorithms are defined and used. Numeric and character manipulation is carried out. File handling, recursive functions, and elementary data structures are studied. Computer use required.

EG 611 Systems Integration I (3.00 cr.)

Prerequisite: EG 601, EG 691 or equivalent. *Corequisite:* EG 681. *Recommended Prerequisite:* EG 610. An advanced introductory course in microcomputer systems, primarily intended for students who have had previous experience with microprocessors. Starts with the 16-bit architecture of the Intel 8086/8088 microprocessor. Covers MS-DOS use. Also covers assembly language techniques and development of programs.

EG 612 Systems Integration II (3.00 cr.)

Prerequisite: EG 611, EG 681. *Corequisite:* EG 682. Continues to develop the elements and concepts which are used to construct an 8086/8088 based 16-bit microprocessor system. Theory of functional blocks opera-

tion (i.e., CPU features, interrupt structure, DMA techniques, and I/O structures). Programmable peripheral chips in the 8086 family of devices. Investigates coprocessing and multiprocessing techniques. Lab provides practical experience using the concepts presented in lecture.

EG 613 Continuous-Time Signals and Systems (3.00 cr.)

Prerequisite: EG 609. Covers continuous-time signals and systems including: signal representation in terms of impulses; the convolution integral; and system representation in terms of block diagrams or differential equations. Transform techniques such as Fourier Series, Fourier Transform, and the Laplace Transform are used in the analysis and characterization of linear time-invariant systems. Also covers frequency selective filters and modulation.

EG 614 Introduction to Discrete Methods (3.00 cr.)

A survey of mathematical topics common to many areas of computer science. Topics include logic and proof techniques, sequences and summations, set theory and combinatorics, probability, recurrence relations and asymptotic growth of functions, graph theory, finite-state machines, and Turing machines.

EG 620 Discrete-Time Signals and Systems (3.00 cr.)

Prerequisite: EG 613. Covers discrete-time signals and systems including signal representation in terms of impulse sequences; the convolution sum; and system representation in terms of block diagrams or difference equations. Transform techniques such as the Z-Transform, Discrete-Time Fourier Series, Discrete-Time Fourier Transform, and Discrete Fourier Transform, are used in the analysis and characterization of linear shift-invariant systems. Discusses the Sampling Theorem and digital filters.

EG 622 Data Acquisition and Processing (3.00 cr.)

Explores the practical side of digital data acquisition, subsequent signal processing options, and techniques for analog signal generation. Uses small group projects to explore aspects of analog-to-digital conversion, digital-to-analog conversion, elementary digital signal processing. Projects are accomplished using either student written software or software packages such as MATLAB. Begins with lectures and demonstrations to build the background necessary for the projects.

EG 681 Microcomputer Systems II Laboratory (1.00 cr.)

Corequisite: EG 611. Consists of writing programs in assembly language, assembling them, and running them on the appropriate system.

EG 682 Microcomputer Systems II Laboratory (1.00 cr.)

Corequisite: EG 612.

EG 691 Microprocessor Software Laboratory (1.00 cr.)

Corequisite: EG 601. Consists of writing programs in the appropriate assembly language, assembling them on the resident or cross assembler, and running them on a microcomputer.

EG 700 Structured Programming (3.00 cr.)

Prerequisite: EG 610. Intermediate programming in C/C++ emphasizing structured methodologies for development, debugging, testing, and verification of programs. Topics include recursion; pointers; dynamic memory allocation; file processing; simple time-complexity analysis; and elementary data structures such as stacks, queues, linked lists, and binary trees.

EG 703 Systems Analysis (3.00 cr.)

Includes a review of matrix operations. Emphasizes engineering systems and the modern techniques of generating alternatives, evaluation and selection criteria including resource scheduling, decision theory and the simplex methods.

EG 705 Digital Signal Processing (3.00 cr.)

Prerequisite: EG 620. Explores the theoretical foundations, actual implementations, and current applications of signal processing using digital techniques. In-depth review and development of discrete-time signals and systems, the z-Transform, the discrete Fourier Transform and its computation, and digital filter design techniques.

EG 710 Electro-Optics (3.00 cr.)

Prerequisite: EG 613. Covers a wide range of topics in optical engineering. Introduces geometric optics using the matrix method. Other geometrical optics topics include optical instruments, light sources, light projectors, and radiation theory. Modern optics topics include detectors, diffraction, lasers, holography, and fiber optics.

EG 712 Advanced Data Structures (3.00 cr.)

Prerequisite: EG 614, EG 700. A study of data structures beyond elementary stacks, queues, lists, and trees. Topics include balanced tree structures, heaps, priority queues, static and dynamic hashing, inverted trees, and data compression. May also cover topics from the current literature.

EG 719 Local Area Networking (3.00 cr.)

Prerequisite: EG 762. Fundamentals of LAN Architectures. Topics include OSI layers 0, 1, and 2; 10BASE-5, 10BASE2, 10BASE-T, 100BASE-T, TOKEN RING and FDDI.

Students develop LAN strategies through case studies, ranging from actual implementation to business models.

EG 720 TCP/IP Architecture (3.00 cr.)

Prerequisite: EG 762. Students develop the following TCP/IP Layers: Link, Network, Transport, and Application. Instead of just describing the protocols and what they do, students use popular diagnostic tools to watch the protocols in action. (*Lecture/Laboratory*)

EG 721 Compiler Theory (3.00 cr.)

Prerequisite: EG 712. An overview of the mathematical theories which form the basis for compiler construction and analyzes the internal design of modern compilers along with their basic algorithms. The overview includes the automata theory of finite state machines, formal grammars, and tree automata. The basic compiler construction algorithm includes lexical analysis, parsing techniques, code generation, symbol table organization, error processing, and optimization methods. Presents algorithms using the C high level language as their basis. Requires students to construct a compiler for a small C subset using C as the implementation language.

EG 724 Algorithm Design (3.00 cr.)

Prerequisite: EG 712. A study of the design and analysis of efficient computer algorithms. Topics include recurrences, sorting, order statistics, dynamic programming, graph algorithms, and NP-completeness. Usually includes additional topics from the current literature or specific application areas such as computational geometry or computational biology.

EG 726 Control Theory (3.00 cr.)

Prerequisite: EG 613. Analyze and design fundamental control systems using state variable representation. Practically oriented course emphasizing the supporting mathematical theory that provides the basis for design. Blend of mathematical theory (Laplace transforms and representation of controlled systems as differential equations) along with time and frequency domain analytical tools.

EG 729 Network Management (3.00 cr.)

Prerequisite: EG 762. Simple network management protocol (SNMP) has been the defacto standard for the management of multivendor TCP/IP based networks. Students study the requirements of a network management system, the models of management systems that have been developed, and the real-world architectural components comprising a total network management system (SNMP, MIBs, and network manager).

EG 730 Programming in Windows

Using C/C++

(3.00 cr.)

Prerequisite: EG 700. Provides an in-depth study of the Microsoft Windows Application Programming Interface (API). This API is directly used to support application development using C/C++ and provides the foundation upon which C++ class libraries such as the widely used Microsoft Foundation Classes (MFC) library are constructed. Knowledge of the basic Windows application architecture and API are also a valuable aid in the study and application of other languages used for Windows programming, such as Java and Visual Basic. Specific areas of study include Windows Programming Architecture; text and graphical output to a Window; basic Graphical User Interface (GUI) elements such as menus, accelerators, icons, bitmaps, and dialog boxes; timer basics; the Windows clipboard; multitasking and multithreading; the multiple-document interface; and dynamic-link libraries. All topics are illustrated using working examples prepared using the Microsoft Visual C++ programming environment. The emphasis is upon using the basic Windows API but an introduction to the architecture and use of the MFC library is also provided.

Homework exercises using the Visual C++ programming environment to extend examples discussed in the lectures are required. There are also two programming projects which are more extensive in nature. The first project is a graphical output project involving the manipulation of rubber banded figures. The second project provides a multiple-document interface which supports basic text editing operations.

EG 731 Operating Systems

(3.00 cr.)

Prerequisite: EG 700. Resources, tasks, services, system/user interface, allocatable, shared resources, compilers, linkers, loaders, exec-services, the CPU as a resource, schedulers and monitors, foreground/background tasks, interrupts, virtual machine, Bath stream, distributed processing and networking. Discusses selected operating systems such as UNIX, RSX11/M, TECH-MAC II.

EG 732 Software Engineering

(3.00 cr.)

Prerequisite: EG 700. Covers the field of software engineering: planning, product definition, design, programming, testing and implementation. Covers topics of structured design and programming in depth. Software systems design and program architecture-alternative system types. Module design, coding and language considerations. Considers design team methodology and member makeup. Industry standards, diagrammatic techniques, pseudo code. Programming language alternatives. Class

examples are from real-world product situations. A complete overview of and exposure to a total product development cycle and project. Real-time systems; design and testing/debugging phases.

EG 734 Database Design and Management (3.00 cr.)

Prerequisite: EG 700. An introduction to database philosophy. Discusses major database organizations with emphasis on the relational approach. Topics include physical storage; design tools including entity-relationship modeling and normalization techniques; query processing including formal languages, SQL, QBE, and optimization; transaction modeling; concurrency issues; current trends in DBMS. Includes laboratory experiences with the design and use of DBMS.

EG 736 Wide Area Networks (3.00 cr.)

Prerequisite: EG 762. A survey of wide area networks which includes traditional telephone networks, frame relay networks and ATM, and asynchronous transfer networks.

EG 738 Network Security (3.00 cr.)

Prerequisite: EG 762. Fundamentals of network security. Topics include controls, cryptography, IPSEC, intrusion detection, physical and operations security, firewalls, and virtual private networks.

EG 739 Computer Design (3.00 cr.)

Prerequisite: EG 770. Digital computer operation, machine-code orders, instruction formats, procedure oriented languages, influence of high level languages on computer design, stack architecture, control unit organization, microprogramming, the arithmetic unit, storage system, input/output systems, noise problems, reliability and use of redundancy, parallel processing systems, pipeline computers.

EG 740 Data Communications (3.00 cr.)

Prerequisite: EG 620. Principles of communications systems are developed. Topics include: spectral analysis; random processes; AM, FM; sampling, ADC conversion, and pulse modulation; data transmission, coding, and performance of systems in noise.

EG 742 Applications of Digital Signal Processing (3.00 cr.)

Prerequisite: EG 705. Digital signal processing theory is exercised using MATLAB to develop and implement signal processing algorithms. Additionally, modern special purpose microprocessors, designed for signal processing, are used to implement signal processing algorithms. Course concludes with a project in which small

student groups complete a signal processing task using either an analytic technique, a simulation, or a software implementation.

EG 746 Artificial Intelligence (3.00 cr.)

Prerequisite: EG 700. A study of theory and techniques which will make computers "smart." Topics include problem representation, search problem-solving methods, game playing, natural language processing, knowledge engineering, and LISP programming.

EG 747 Robotics (3.00 cr.)

Provides the fundamentals of robot technology and the techniques for justifying, specifying and implementing robots within a flexible automation system. Examines the limits of present robotics. Topics include robot kinetics, sensors, vision systems, parts recognition, work cells, group technology, robot programming languages, dynamics, and an introduction to the automated factory.

EG 751 Robotics Applications (3.00 cr.)

Prerequisite: EG 747. A laboratory course in the application of robots and sensors in industry. Applies the robot technology offered in Robotics (EG 747) to assembly, welding, casting, palletizing, painting, and other industrial jobs. Topics include a study of the factory environment, project planning, robot programming, electronic sensors, and equipment interfacing. Students acquire hands-on experience with small teaching robots in the laboratory.

EG 753 VLSI Design (3.00 cr.)

Prerequisite: EG 770. An introduction to the field of Very Large-Scale Integrated Circuits (VLSI). Presents structured, systems, and computer science design approaches to VLSI IC microelectronics design. Presents the essentials for implementing a system in VLSI, MOS digital circuit theory, IC fabrication. Stresses aspects of timing, concurrency, synchronization, floor-planning, and hierarchical design. Covers practical considerations of IC fabrication yields, testing and scaling. Uses industrial and university research examples.

EG 755 Thesis Seminar (3.00 cr.)

Prerequisite: All introductory courses must be completed. Students are required to make a formal presentation of their thesis proposal to the faculty of the Engineering Science, Computer Science and Physics Departments. Seminar insures the adequacy of preparation before the thesis research is begun and acquaints other students with diverse areas of research.

EG 756 Thesis Research (3.00 cr.)

Prerequisite: EG 755. Thesis research is carried out by the student with the guidance of his major professor and readers.

EG 757 Coding and Information Theory (3.00 cr.)

Begins with a look at the concept of coding in general, and at error-detecting and error-correcting coding in particular; including parity-check, Hamming and Huffman codes. Considers the concept of information as entropy, channel capacity and Shannon's theorems. Students should have seen at least some very elementary probability before taking this course.

EG 758 The 68000 Microprocessor (3.00 cr.)

Prerequisite: EG 601 or equivalent. Basic explanation of 68000 functions. Internal architecture. A minimum computer system. The 68000 instruction set, addressing modes, coprocessors, and support devices. Memory management. The 680X0 family of Motorola. Uses the SBC68K educational board to write and run programs.

EG 761 Expert Systems (3.00 cr.)

Prerequisite: EG 700. Introduces one of the most dynamic and timely branches of artificial intelligence-expert systems. Includes fundamentals of knowledge engineering, use of probability and fuzzy logic, and application of metaknowledge. Evaluates expert system architectures from the applications standpoint. Case studies of some of the most widely used expert systems to solve a practical problem. In order to obtain hands-on experience, each student constructs an expert system as a term project.

EG 762 Introduction to Network Engineering (3.00 cr.)

The course begins with an overview of data and computer communications including an introduction to the TCP/IP protocol architecture. Necessary areas of mathematics, science, and engineering are presented in preparation for a review of the underlying technology of networking. The area of data communication is surveyed including data transmission, transmission media, data encoding, data communication interface, data link control, and multiplexing. Wide area networking, including both circuit switched and packet switched implementation, are considered. Local area networking technology and implementations are reviewed. The course concludes with a look at internet protocols, transmission control protocols, and security issues.

EG 766 Seminar (3.00 cr.)

Prerequisite: All introductory courses. Covers current topics in computer science, computer engineering and electrical engineering. Students select a topic, write a term paper, present a preliminary outline and present the finished paper to the class.

EG 767 Ada (3.00 cr.)

Prerequisite: EG 700. Introduction to the language of Ada covered by such topics as data typing, flow control, packages, file I/O, and subprograms. Includes the use of data generics (reusability) as an advantage of Ada. Tasking, low-level programming, and real-time considerations.

EG 768 Neural Networks (3.00 cr.)

Introduces artificial neural networks which have been adapted from biological systems for computer applications. Discusses and analyzes various kinds of neural networks. An emphasis on applications for vision, speech, optimization, and learning.

EG 769 RISC Architecture (3.00 cr.)

Prerequisite: EG 739. Reduced Instruction Set Computer (RISC) topics such as superpipelined and superscalar architectures; register renaming, VLIW, speculative execution, Harvard Architecture, Pipeline stalls, organization of cache systems and hierarchical memory, optimizing compilers, code scheduling, branch prediction, instruction set emulation, embedded RISC systems, RISC/DSP, and register coloring. Uses design examples from industry such as PowerPC, SPARC, MIPS, Transputer, ARM, Alpha, Hp-PA, PIC, and others.

EG 770 Hardware Description Language and Machine Design (3.00 cr.)

Prerequisite: EG 612, EG 682. An introduction to hardware descriptions languages and their uses in large, discrete state machine design. Uses a generic HDL compiler and hardware simulator to design and explore the behavior of hardware devices at a level of complexity found in modern microprocessors.

EG 772 Structured Testing (3.00 cr.)

Prerequisite: EG 732. The methodology of acceptance, integration, and code testing.

EG 773 Advanced VLSI Design (3.00 cr.)

Prerequisite: EG 753. Continues the topics developed in VLSI Design (EG 753). Some VLSI chips are actually designed, simulated, and constructed.

EG 778 Image Processing (3.00 cr.)

Prerequisite: EG 705. Theory and application of the capture, digitization, and analysis of images using digital signal processing techniques. (*Lecture/Laboratory*)

EG 779 Advanced Communication Theory (3.00 cr.)

Prerequisite: EG 740. A continuation of principles from EG 740. Applications are presented.

EG 781 Design and Simulation (3.00 cr.)

Prerequisite: EG 770. Introduces computer-aided design (CAD) through “hands-on” examination of two related CAD packages: a “schematic capture” package, which permits one to prepare schematic drawings of electronic circuits by computers; and a “simulator,” which allows one to “test” a circuit design by simulating, in software, how that circuit would behave if it were built out of hardware. A lab course allowing students ample opportunity to learn about CAD software by using it.

EG 782 Campus/Metropolitan Area Networks (3.00 cr.)

Prerequisite: EG 762. Fundamentals of campus/metropolitan area networks. Topics include ATM, switched, fast, and gigabit ethernet. In addition, dynamic routing protocols are studied and applied through laboratory experiments. Students develop Campus/MAN strategies to logically/physically integrate LANs.

EG 783 Advanced Operating Systems: UNIX (3.00 cr.)

Prerequisite: EG 731 or equivalent. An in-depth inspection of the UNIX operating system internals via the C programming language. Topics include system calls and their internals, process implementation, communication, and management; file system implementation and management; device management; and networking.

EG 784 Programming in Windows Using Visual Basic (3.00 cr.)

Prerequisite: EG 700. Presents concepts necessary to design and code Visual Basic applications run under Microsoft Windows. Specific areas include text and graphic output to a window; user input from menus and dialog boxes; Windows memory management; use of the Windows clipboard; multiple document interface; dynamic data exchange; timers; API calls; creation of user defined controls (ActiveX); creation of dynamic link libraries; and creation of Windows setup program. Presented through numerous example programs including database, text processing, and graphics applications.

EG 785 Projects in Embedded Control (3.00 cr.)

Prerequisite: EG 612. A laboratory course in which students conceive, design, build, program, and debug a design project of their choosing. Uses a microcontroller to simplify the processor portion of the projects so that more time can be spent on device interfacing. The Intel 8051 family will be used. Support tools (emulators) available in the lab.

EG 787 Adaptive Filters (3.00 cr.)

Prerequisite: EG 705. Introduces the fundamental concepts and applications of digital adaptive filters. Discusses the analysis and design of adaptive Finite-Impulse-Response (FIR) filters. Computer exercises are used extensively to demonstrate concepts and motivate further study.

EG 788 Microwave and IR/Optical Systems I (3.00 cr.)

Prerequisite: EG 620. Emphasizes the systems approach to the active and passive microwave and IR/Optical sensors (e.g., radar, laser radar, infrared, and optical systems). Promotes understanding of the physical and mathematical basis for analyzing and evaluating the performance of these sensors. Covers the individual subsystems (i.e., antennas, lenses, receivers, transmitters, lasers, signal processors, etc.) Discusses the trade-offs involved in a system level design. Exploits the similarity and differences of the microwave and IR/Optical sensors as a means to facilitate understanding.

EG 789 Microwave and IR/Optical Systems II (3.00 cr.)

Prerequisite: EG 788. Builds on the knowledge and concepts developed in EG 788. Examines the design and functioning of the individual components of both microwave and IR/Optical systems. Emphasizes the extraction and interpretation of the signal for microwave and IR/Optical sensors. Students are expected to design a comprehensive “system level” microwave or IR/Optical sensor system.

EG 790 Computer Graphics (3.00 cr.)

Prerequisite: EG 700. A comprehensive analysis of the techniques and algorithms used to develop graphical images using computer generated data. Covers the mathematical concepts required to produce two- and three-dimensional text and graphics on raster and vector displays. Examines and evaluates hardware and software design considerations relative to current display technology.

EG 792 Object-Oriented Programming (3.00 cr.)

Prerequisite: EG 700. Surveys major concepts in object-oriented analysis, design, and programming such as

encapsulation, information hiding, inheritance, and polymorphism. Covers how these ideas are implemented in Smalltalk and C++. Students are assigned programming projects in these two languages.

EG 794 Speech Processing (3.00 cr.)

Examines the analysis of speech signal processing systems through analysis of human speech generation and recognition. Analysis is then applied to speech processing through speech encoding, compression, enhancement, noise reduction, and identification. Reviews current literature for commercial applications along with research trends.

EG 795 Advanced Graphics (3.00 cr.)

Prerequisite: EG 790 or equivalent. A continuation of EG 790 that explores techniques for three-dimensional photo-realistic graphics, as well as advanced methods in object modeling and animation. Emphasis on the algorithms and mathematical principles that underpin programming techniques. Includes ray tracing, hidden surface elimination, radiosity, physics-based modeling for animation, and other topics as possible.

EG 797 Internet Programming (3.00 cr.)

Prerequisite: EG 799. Covers all aspects of interactive website design, development, and deployment. Starting with client-side technologies—HTML, DHTML/CSS, Javascript, Browser and Document Dynamic Object Models (DOMs), and Java2 Applets—students learn to develop complex interactive webpages that go beyond simple text, images, and links. After establishing a firm foundation in Internet protocols (TCP/IP, UDP/IP, and HTTP), the course covers server-side technologies including Apache and JServ configuration and administration, forms processing with CGI programs and Servlets, and special topics which may include web database management, JSP, XML, and multi-tiered architectures. In addition to programming assignments, students are required to define and execute a real-world web-programming project.

EG 798 Wireless Communications (3.00 cr.)

Prerequisite: EG 740. Covers cellular system design fundamentals (frequency reuse, channel assignments, hand-off strategies, interference, and system capacity); large-scale path loss (propagation mechanisms, outdoor and indoor propagation models); small-scale fading (multipath, multipath measurements, statistical models); equalization; diversity; multiple access techniques (frequency division multiple access, code division multiple access, space division multiple access); wireless networking (wire-

less data services, personal communication services/networks) and wireless systems (AMP, Global System for Mobile Communications (GSA), CDMA Digital Cellular Standard (IS-95)).

EG 799 Java Programming (3.00 cr.)

Prerequisite: EG 700 or equivalent. *Recommended Prerequisite:* EG 792. Covers the fundamentals required to design and develop Java programs for general applications and Java applets for Internet applications. Specific areas include the relationship between Java and C++; Java object-oriented techniques; data types and control structures; arrays; string processing; file and stream I/O; the Java Graphical User Interface; multithreading; networking; and exception handling.

EG 800 Topics in Computer Science (3.00 cr.)

Prerequisite: Varies according to topic. A series of lectures based on a current topic interest in the field of computer science.

EG 811 Web Programming (3.00 cr.)

Prerequisite: EG 799. Covers the computational aspects of interactive website design, development, and deployment from both client and server perspectives. Starting with client-side technologies—HTML, Javascript, Browser, and Document Dynamic Object Models (DOMs), DHTML/CSS, and form element processing—students learn to develop complex, interactive webpages that go beyond simple text, images, and links. After establishing firm foundation in Internet protocols and client-server transactions, the course addresses server-side technologies including webserver configuration and administration, server security, forms processing with Servlets and JSP, persistence, and server-based sessions. In addition to programming assignments, students are required to define and execute a real-world web-programming project.

EG 899 Independent Study (3.00 cr.)

Students must submit a written proposal to a member of the faculty of the engineering science program prior to the last day of class registration. Proposed topics, which are normally discussed in advance with the professor, should permit study and/or laboratory work in considerable depth beyond the scope of a course offered in the engineering science curriculum. *No course which is offered by the engineering science program can be taken as an independent study course. Only one independent study course can be taken by a student while pursuing an M.E.S.*

COLLEGE OF ARTS AND SCIENCES
MODERN STUDIES

OFFICE: Humanities Building, Room 234

TELEPHONE: 410-617-2418/2410

DIRECTOR: David Dougherty, Professor of English

FACULTY: Faculty from a variety of academic disciplines teach the courses in this program.

The graduate program in modern studies is designed to satisfy a wide variety of student interests. It exists for those whose professional lives demand a greater expertise or a broader knowledge base: teachers who want a graduate degree in a content area and government workers or librarians whose advancement requires further academic work. It also exists for those whose professions demand a greater breadth: business persons, lawyers, physicians, anyone whose educations have been so specialized that they did not provide the diversity necessary to an understanding of the complex social and intellectual currents of the time. It exists for those who are intellectually curious: people from all walks of life who feel the need to examine unexpected aspects of the modern experience just to see what is there and to refine their perspectives. It exists for all who believe that the mind constantly needs to be enriched, to be challenged to see new things, or to see old things in new ways.

With these interests in mind, the program blends the traditional with the innovative. It is traditional in that it is a graduate program which emphasizes the academic rigor long associated with a graduate school and with the Jesuit/Mercy traditions of Loyola College. It is innovative in that the traditional graduate emphasis upon depth of focus and research has been replaced by an emphasis upon breadth of reading and study.

The graduate program in modern studies challenges students to continue their journey as citizens who interact energetically and creatively with a changing world:

- who grow in their awareness of cultural tendencies;
- who cultivate their analytical and communication skills to reach their full potential;

- who develop and expand a commitment to others;
- who attain a liberal studies perspective on contemporary problems and opportunities;
- who become, in the Jesuit ideal central to Loyola College's educational mission, men and women for others.

The graduate program in modern studies aims to "liberate" in the classic sense of that term. It reaches out to those who want a rich and satisfying intellectual experience as well as enhancement of their analytical and communication skills. Its subject matter is the whole spectrum of the modern American experience, as well as the roots of that experience as we discover them in other times and cultures. Areas of study include, but are not limited to, literature, business, economics, the arts, politics, philosophy, science, sociology, intellectual and social history. Although the program is not practitioner oriented and does not inevitably lead to a doctorate, modern studies graduates often find career benefits—in the development of the Jesuit ideal *eloquent perfecta*—as well as personal satisfaction and enrichment.

Classes are held on the Baltimore, Columbia, and Timonium Campuses. Administrative office hours on the Baltimore Campus are 8:30 a.m. to 5:00 p.m., Monday through Friday, during the Fall and Spring Semesters.

ADMISSION CRITERIA

Loyola welcomes graduates from accredited undergraduate or graduate institutions of higher learning who demonstrate the ability to contribute to the intellectual atmosphere of a seminar-based degree program. The Admission Committee considers most favorably those graduates who maintained at least a *B* (3.000) average during the final two years of college. A personal interview is ordinarily a condition of admission. In view of the broad nature of the program, no specific undergraduate major is required or preferred. Applicants who have no undergraduate degree but who have special qualifications may be accepted into certain courses on a noncredit basis.

Detailed admission information (application procedures, required documents, etc.) may be found in the Admission chapter of this catalogue.

APPLICATION DEADLINES

Fall Semester	September 1
Spring Semester	January 1 <i>(of the year semester begins)</i>
Summer Sessions	May 15

Applications may be submitted at any time and are reviewed on a rolling basis throughout the year. Students who have been accepted will be notified in writing and assigned an adviser to help them work out a program of studies. While students may be accepted after an application deadline has passed, course availability cannot be guaranteed.

CREDITS REQUIRED

Two options for the Master of Modern Studies (M.M.S.) are offered. One, composed entirely of modern studies courses, requires 12 courses (36 credits) for graduation. The second requires at least nine courses (27 credits) in modern studies, and permits up to three courses (9 credits) in Loyola programs other than modern studies. Only one of these can be a Graduate Studies in Education course.

With the prior written permission of the director, up to 12 credits can be taken in the Master of Liberal Studies (M.A.L.S.) program at the College of Notre Dame of Maryland. The remaining 24 credits must be taken in the Loyola modern studies program. Independent study courses are seldom permitted, and then only very late in the student's program of studies when the student has a well developed research plan in mind and has discussed it with a faculty member, who has agreed to monitor it.

DEGREE REQUIREMENTS

In both options, the program is centered around three themes:

Historical Approaches: "Ways to Be"

Courses numbered 600–619, 660–679, 700–719, and 760–779. The courses in this segment are essentially historical in nature. They emphasize

the origin, evolution, and development of ideas and movements crucial to the modern American experience.

Themes in the Modern Experience: "Ways to See"

Courses numbered 620–639, 680–699, 720–739, and 780–795. The courses in this segment are organized around the structure of an institution or an idea. They concentrate on central characteristics of the idea or institution and ways in which these elements contribute to the uniqueness and relevance of the idea or institution.

Creative Process: "Ways to Say"

Courses numbered 640–659 and 740–759. The courses of this segment stress the importance of students discovering their own forms of expression. Emphasis is on the communication of ideas. Traditional research is encouraged, but students are also given the opportunity to employ film, paint, and other media.

At least one course from each of the segments is required for graduation.

COURSE DESCRIPTIONS

Courses change each semester, and the following listing simply reflects courses offered in the past and those the program may offer in the future. Students are encouraged to consult the modern studies webpage (www.loyola.edu/modernstudies/catalog) for lists and extended descriptions of classes to be offered in coming semesters. All courses are three credits.

HISTORICAL APPROACHES: "WAYS TO BE"

MM 601 Guilt and Innocence: America in the Twentieth-Century (3.00 cr.)

Traditionally, Americans have tended to see themselves as new Adams in a Garden of Eden. In the twentieth century, however, a debate emerged concerning America's guilt or innocence. This debate is viewed as it appears in fiction, popular essays, philosophy, politics, science, and the arts. Readings include Dewey, Fromm, Updike, Mary Gordon, Stephen Jay Gould, and others.

MM 602 The Twentieth-Century Woman: From Corset to Running Shoes (3.00 cr.)

Focuses on the evolution of the female role through the twentieth century. Specifically examines how ide-

ology, the institutions of education, family, work, mass media, and law have functioned to inform and limit or broaden society's definition of woman.

MM 604 Modern Hispanic-American Fiction (3.00 cr.)

In the United States, Hispanics are one of the fastest growing ethnic groups. The writing they produce is diverse, creative, and passionate. This course looks at three types of Latino authors: those who have emigrated to the United States, those who were born in the United States, and those who live in Latin America but are influential in the United States. Representative writers include Isabel Allende (Chile), Rudolfo Anaya (New Mexico), and Garbrel García Márquez (Colombia). All works are read in English translation.

MM 605 "Father of All Things": A Country Forged in the Crucible of Modern War (3.00 cr.)

Ancient theory identified war as "The Father of All Things." This notion certainly holds true in the case of the United States. This course looks at the way in which "total" wars (WWI, WWII) and limited wars (Korea, Vietnam, the Persian Gulf, etc.) have affected and transformed American society.

MM 606 Popular Culture in America (3.00 cr.)

A look at the role of the mass media as a dominant institution within American society. Traces the historical development of mass media—film, radio, television—and the accompanying impact of those media on social behavior. Mass media critiques—psychological, Marxist, structuralist—are considered through readings and discussions of contemporary thinkers. Various media theories are explored in order to understand the shifts in thinking about mass media in the twentieth century.

MM 607 On the Eve of Today (3.00 cr.)

An examination of the major social and intellectual movements of the 1960s, 1970s, and 1980s as well as an assessment of their legacies. Focuses on the civil rights movement, protest against the Vietnam War, the New Left, the counter culture, and the feminist movement.

MM 608 The Parade of the Planets (3.00 cr.)

A survey of human attempts to understand the solar system starting with the great systems of the past—Ptolemy, Copernicus, Newton, and Einstein—and concluding with an analysis of the results of contemporary space exploration and a guess at the future. *Non-mathematical in treatment.*

MM 609 "Two Scorpions in a Bottle":

America and Russia Today (3.00 cr.)

Mutual suspicions and dislike preceded the virulent stage of United States-Soviet relations during the Cold War Era. Probes the sources of this suspicion and dislike, examine their manifestations, and offer some speculations about whether they are likely to outlast the present era of good feeling.

MM 610 The Existential Imagination (3.00 cr.)

Explores the work of a variety of existentialist thinkers in the areas of art, film, literature, and philosophy. Among the readings are works by Dostoevski, Nietzsche, Sartre, Camus, and Walker Percy. We also study the existential work of artists such as Munch, Giacometti, Picasso, and Pollack as well as films by Bergman, Woody Allen, and others.

MM 612 Issues in Urban Problems (3.00 cr.)

A sociological analysis of such urban problems as housing, politics, poverty, race and ethnicity, and deviance. Students are given opportunities to become familiar with the basic concepts and literature in the fields of urban sociology and urban history. Students also gain experience in descriptive and/or explanatory research on urban problems of their own choosing.

MM 613 American Skylines (3.00 cr.)

Since the 1960s, Americans have organized to preserve their "built environment" just as they have to conserve their natural one. Baltimore has long been a center of such preservation activity. The preservation movement is examined from several points of view—esthetic, historic, economic, and political. Students are taught how to see and describe the elements of their built environment, to understand how they came into being, and to realize new and profitable ways to use them for the future. Readings include basic documents of the historic preservation movement, and there is some field work.

MM 614 Neighborhood and Community in Urban America (3.00 cr.)

An exploration of the social, political, and moral implications of urban life in modern America. Topics include patterns of city growth; the loss of traditional community; urban social organization (family, neighborhood, community); the growth of the urban underclass; economics, crime, and the welfare state. Students also examine significant theoretical issues and perspectives of community.

MM 615 “Our Americas”: Contemporary Influences on American Literature and Culture (3.00 cr.)

From Buenos Aires to New York to Toronto, from Mexico City to Havana to Port of Spain, the imaginative, cultural, and political construct we call “America” has always gripped the collective psyche of New World citizens. But what does it mean when we speak of our “place,” ideologically or spatially, as “America”? In response to the manifold founding gestures and multiple contested geography of what José Martí called “Neustra America” (Our America), a host of “Other Americas” inevitably arise in creative opposition. Students explore how those vibrant tensions have been embodied in the novels, poems, essays, and films of an impressive array of “American” artists, including recent Nobel laureates Gabriel García Márquez, Toni Morrison, Octavio Paz, Derek Walcott, and V.S. Naipaul.

MM 616 Modernism and Nationalism in American Art (3.00 cr.)

Examines American artists from the post-Civil War era to contemporary times, especially Thomas Eakins, Arthur Dove, John Sloan, Georgia O’Keeffe, Jackson Pollock, and Jasper Johns. Broader issues, like the creation of an art that was distinctly American and modern, are examined as well.

MM 619 Morality and the Modern World: Ethics in Crisis (3.00 cr.)

The modern era began with the confidence that moral knowledge and sensitivity could keep pace with scientific and technological progress. Numerous philosophical theories attempt to provide a rational foundation for moral action, but much of contemporary thought challenges these theories. Doubts infiltrate our everyday discussions about the morality of abortion, euthanasia, reverse discrimination, nuclear warfare, etc. Alternative theories about the nature of morality are examined in light of their ability to help formulate and clarify the ethical dilemmas confronting contemporary life.

MM 700 Political Violence in Modern Times (3.00 cr.)

Murder, mobs, and mayhem have become everyday experiences in the modern world as desperate, crazy, or oppressed people seek to achieve political goals through violent means. Examines the history of this phenomenon primarily in Europe and America from the French Revolution to the present. Analyzes the ideological roots and continuing presence of anarchism. *Seminar format with enrollment limited to fifteen students.*

MM 701 Fairy Tales and Modern Times (3.00 cr.)

An examination of the origins of modern fairy tales. We will read German, French, and Italian tales and contrast them to their modern filmed versions. Special attention will be paid to Walt Disney’s versions of popular tales. We discuss the changes made by Disney (and other film makers) and examine to what extent the values in the new, filmed versions reflect our present-day value system.

MM 702 Scientists or Psychics: Victorian Era Science, Empiricism, and Belief (3.00 cr.)

Examines the prelude to modern science in the work of English, American, and European scientists of the late nineteenth and early twentieth centuries. The seminar explores the assumptions upon which both scientists and psychics based their research, as well as the cultural milieu that inspired and supported investigations of both types. Special attention is given to theories of Charles Darwin and Francis Galton as well as other scientists who revolutionized scientific theory and investigated paranormal phenomena.

MM 703 Spirituality and Autobiography (3.00 cr.)

Christianity may fairly be credited with creating the genre of autobiography. Under the influence of Augustine, modern writers, whether religious or secular, continue to explore and expand the relationship between private life and public confession. This course puzzles with questions of conversion, calling, and commitment as well as the value and limits of autobiography as a method of theological reflection. Selected readings in Mary McCarthy, Simone Weil, Malcolm X, Philip Berrigan, and others.

MM 705 The Supreme Court in the Twentieth-Century: Personalities, Philosophies, and Problems in Perspective (3.00 cr.)

A look at the highest court in modern times, focussing on the seesaw battles for liberal or conservative control; the impact of towering figures like Taft, Hughes, Brandeis, Frankfurter, Black; and the major Church/State, civil rights, criminal justice and abortion cases. Each student chooses one issue and an individual Justice for closer study.

MM 706 Germany in America: The Influence of German Culture on American Thought (3.00 cr.)

Traces the impact of German culture on American intellectual development from the transcendentalism of the early nineteenth century through the expres-

sionism of the 1920s to the social, political, and literary re-evaluations of the postwar period. Readings from many fields including the natural sciences, literature, music, history, and business. Selections from Nietzsche, Freud, Thomas Mann, Walter Gropius, Einstein, and O'Neill.

MM 707 The Freudian Adventure (3.00 cr.)

A look at Freud's essential insights, exploring the meaning of the psychoanalytic revolution for our understanding of self and other, sexuality, dreams, addiction, religion, violence, and death. Freud compared his discovery of the unconscious to the Copernican revolution, in view of which, human beings could no longer place themselves at the center of the universe. Readings from Freud and from literature.

MM 708 The Growth of the Law (3.00 cr.)

Our law is constantly changing. Twentieth century legal issues are examined in the light of historical events and evolving schools of jurisprudence. Students trace changed legal attitudes in areas like criminal justice, integration, affirmative action, church and state, and privacy. Each student is assigned a single issue to trace through the century.

MM 709 Origins of Modern Ideology (3.00 cr.)

Marxism, fascism, liberalism, progressivism. This course looks critically at two prominent explanations. One views ideology as a logical consequence of modern revolt against ancient political thought. The other holds that modern ideology is merely a new pattern of old time psychological revolt. What do these perspectives imply about the probable course of twenty-first century politics?

MM 710 Detective Fiction and the Quest Romance (3.00 cr.)

We will examine what special, unique appeal(s) the detective story has and what it may tell us about what we as a culture believe in. By drawing on the theories of a poet, a cultural critic, and a mystery writer, we will discover to what psychological and cultural needs the fantasy of the detective-hero responds. Readings include plays, stories, or novels by Sophocles, Shakespeare, Poe, Doyle, Hammett, Chandler, Parker, and others as well as film adaptations. Class project is an original mystery story.

MM 715 From Melting Pot to Boiling Pot (3.00 cr.)

Examines the historical forces that created America's ethnic heterogeneity and looks at episodes in the national experience when immigration occupies a central position in the American social agenda. Places issues of race and ethnicity in a meaningful historical con-

text from the late nineteenth century to the present. Seeks to determine the extent to which race has played in shaping relationships between white ethnic groups and blacks in the United States.

MM 717 Sex and Modernity (3.00 cr.)

Sexuality is the central metaphor, the privileged myth of modern world. Revolutions in both sexual behavior and attitudes toward love and sex are central to the phenomenon that we call "modernity." The nature and function of sexuality in modern life is examined through readings from psychological and political theorists and from several literary figures.

MM 718 Identity and Difference in World Politics (3.00 cr.)

What accounts for the rise in ethnic conflicts in the world today? Why the apparent increase in civil and regional wars, including Bosnia, Congo, and Rwanda? In this course, we take a close look at the politics behind some of these conflicts and try to interpret their causes and consequences. We read voices of those who actually live in the areas ravaged by war. Finally, we ask what these conflicts tell us about ethnic identity in general, including our own.

MM 719 Impeachment and the Constitution (3.00 cr.)

A study of the federal impeachment process from the perspectives of constitutional law and American history, with special emphasis on four major impeachment events: the trials of Supreme Court Justice Samuel Chase, Presidents Andrew Johnson and William Clinton, and the Watergate investigation of President Richard Nixon. Attention is given to the basic constitutional question of what constitutes an impeachable offense, whether conduct must be proved willful, and to twentieth century impeachments of lower federal officials.

THEMES IN THE MODERN EXPERIENCE:

"WAYS TO SEE"

MM 620 New Traditions and Old: Free Verse and Formal Verse in the Twentieth-Century (3.00 cr.)

Were the technically innovative poems of the 1950s and 1960s in America natural successors to the formal tradition in English or a whole new ballgame? Has that "new tradition" flowered or atrophied since then? We will read traditional, innovative, and contemporary poems (American and English) to see what happened, what is happening, and (maybe) what will happen.

MM 621 The Rise of the Realist Tradition (3.00 cr.)

Twentieth century novelists in America have generally followed the style of the realists and naturalists of the late nineteenth century. Examines some of the writers who broke away from the romantic tradition to lay the basis for the twentieth century style. Readings include works by Jewett, Cather, James, Frederic, Howells, Wharton, London, and others.

MM 622 Science, Magic, and Religion:**European Cultural History
of the Scientific Revolution (3.00 cr.)**

Focuses on the social, political, and philosophical changes that facilitated a radical shift in the European world view between the sixteenth and twentieth centuries. The course treats the rise and decline of the witch craze, the scientific revolution, the evolution of positivism, and recent efforts to deal with relativity in mathematics and physics.

**MM 624 The Tradition and the Revolt in
Fiction (3.00 cr.)**

In the twentieth century, when many British and Continental novelists revolted against their traditions, many American writers did so as well. Yet the American revolt had a very different end. Both British and American patterns of tradition and revolt are examined. Authors may include Flaubert, Hawthorne, Hemingway, Woolf, and others.

MM 625 The Absurd in Life and Literature (3.00 cr.)

Traces the concept of absurdity from first principles to modern postulates. The first principles are assembled from Kierkegaard, Sartre, Brecht, Camus, and Kafka. The modern postulates include the notion of an absurd hero (or antihero) and absurd tragedy (or tragic farce) called Theater of the Absurd. Writers include Samuel Beckett, Harold Pinter, and John Barth.

MM 626 Myths on the American Landscape (3.00 cr.)

The myth or dream of freedom, specifically the freedom to succeed (in both spiritual and material terms), has defined Americans' understanding of themselves and their home for over 200 years. Investigates the ways in which literature represents both the surface realities of American social life and the intellectual currents that underlie social reality. Authors may include Franklin, Emerson, Twain, James, Wharton, Fitzgerald, and Faulkner.

MM 627 The Story of the Stars (3.00 cr.)

A study of what modern science has learned in the last few decades on the nature of the stars. An examina-

tion of the startling contemporary developments including supernovas, neutron stars, pulsars, black holes, quasars, and theories of the birth and death of the universe. *Non-mathematical in treatment.*

**MM 628 The Emergence of
Modern Journalism (3.00 cr.)**

A look at the emergence of the mass news media from yellow journalism through the O.J. Simpson trial. Through videos, novels, biographies, and other readings, the philosophy and practices of American journalism in modern and contemporary society are explored. The impact of the mass news media on politics, culture, and society in general is examined.

MM 629 The Culture Wars (3.00 cr.)

Profound social, economic, and political changes of the last several decades have had a decentering effect on America's definition of itself. All of our major institutions—the family, religion, the economy, politics, education, law, art, entertainment—have become battlegrounds for groups advancing sharply differing conceptions of what is good, moral, and true. The writings of a number of scholars and social critics who have analyzed and participated in America's current culture wars are examined to see if we can get some sense of our future directions.

**MM 630 Psychology's Insights into
Interpersonal Behavior (3.00 cr.)**

Understanding the psychological processes of being in relationship with another person and groups of people is vital for any career, workplace environment, family, or other social setting. Students explore psychological insights in the study of interpersonal behavior, pursuing several multidisciplinary avenues including psychological literature and resources, film, literature, and other perspectives.

**MM 631 The American Sixties: Transformations in
Film and Fiction (3.00 cr.)**

Focuses upon the search for an escape from the waste land in the narratives of a decade of political and social change and instability. Emphasizes film and fiction as products of the culture and as commentators on the culture. Updike, Kesey, Bellow, Roth, Elkin, and others. Films include *The Graduate* and *Easy Rider*.

**MM 632 The Tradition and the Revolt
in Poetry (3.00 cr.)**

Virginia Woolf's comment, "On or about December 1910 human character changed," reveals something

profound about transformations in the possible visions of ourselves as people and as a culture we could entertain in this modern era. We will reflect on how this revised perspective on ourselves and our institutions affected one of our most private and, paradoxically, public art forms. Poems by Shakespeare, Milton, Keats, Wordsworth, Frost, Eliot, Williams, Stevens, Marianne Moore, and many contemporary poets.

MM 633 New Myths on the American Landscape:

Writing (and) the American Dream (3.00 cr.)

This course spans classic and contemporary presentations of the American Dream's promise and challenge. Juxtaposing works by such writers as F. Scott Fitzgerald, Arthur Miller, William Faulkner, Dr. Martin Luther King, Jr., Toni Morrison, and Louise Erdrich enables students to examine the role of literature and writing giving shape to the American Dream. Students study the ways writers from many differing communities define the American Dream, where these dreams come together, and where they diverge. In the end, students gain a vibrant and kaleidoscopic "portrait" of what it means to be American. Students also view and critique at least one film.

MM 634 Modern Fantasy Literature (3.00 cr.)

An examination of the four major fantasy writers of the twentieth century, C.S. Lewis, Charles Williams, J.R.R. Tolkien, and Madeleine L'Engle. Focuses on their novels and their theory of fantasy. Readings include L'Engle's *Time Trilogy*, Lewis' *Space Trilogy*, Williams' *Supernatural Thrillers*, Tolkien's *Rings Trilogy*, and *Silmarillion*.

MM 635 The Internet: Understanding the

Medium of the New Millennium (3.00 cr.)

Since the early 1990s, the Internet has emerged as a powerful new medium of communication. Students will investigate the social, cultural, intellectual, and economic impact of this medium in areas ranging from e-commerce to education to digital storytelling. We will assess the way the Internet and its application have influenced the way we see ourselves and others, the way we interact, and even the way we think. Moreover, we will examine the possibilities the Internet possesses and the constraints it imposes as a medium of communication. *HTML will not be taught but access to the Internet is essential.*

MM 637 The Stories of the Seventies (3.00 cr.)

A study of the narratives of that storied decade. Concentration on the absurdists, the relativists, and the search for form, order, and/or values that grew out of the cultural redefinitions of the sixties and the general

disillusionment of the later twentieth century. Readings include Bellow, Doctorow, Percy, Updike, and others. Films from a controversial decade.

MM 638 Marxism: The Grand Failure (3.00 cr.)

Offers an explanation of the current political collapse of communism in the Soviet Union, Eastern Europe, and China through an investigation of the flawed foundations of the ideology. In addition, the psychological appeal of Marxist ideology is examined in order to understand how communism could have assumed such importance in the twentieth century, as well as to understand the sources of its continuing appeal among Western intellectuals.

MM 639 Violence and Competition in

Urban America (3.00 cr.)

This seminar explores the character and origins of ethnic and racial conflict in America's cities. Students learn about cultural, social, and political factors associated with competition and violence between and within these communities. Among the issues studied are political contest and coalition building, intergroup violence, economic restructuring, drug warfare, welfare and welfare reform, housing opportunities, and school desegregation.

MM 680 Shades of Black: Film Noir and

Postwar America (3.00 cr.)

The darkest genre in American cinema, with its tales of crime, corruption, and anti-heroism. We trace its origins in German expressionist film and analyze the way it reflected and shaped post-World War II cultural anxieties about gender, race, power, and violence. We will read source novels and important critical writings about the genre. Examples of *film noir*; including "neo-noir" films like *Chinatown*, *L.A. Confidential*, and *Devil in a Blue Dress* to assess how this revival has remodeled the genre's characters and themes and altered our understanding of postwar American culture.

MM 720 Enterprise, Government, and the

Public (3.00 cr.)

With communism put to rout in Eastern Europe, there is little doubt that the "free enterprise system" will enjoy expanding influence in the conduct of human affairs. Yet capitalism's critics blame it for many social ills, from pollution to poverty, suggesting government regulation to ameliorate these problems. Applies economic analysis to build an understanding of the strengths and weaknesses of free markets and of regulatory attempts to render these markets more perfect. Focuses on

environmental policy, health and safety regulation, monopoly, poverty, and discrimination.

MM 721 Fiction and Film (3.00 cr.)

Explores the cross-fertilization of cinema and fiction. Part One examines film adaptations of novels, especially those that translate fictional techniques and conventions into specifically cinematic ones such as Raymond Chandler's Philip Marlowe. Part Two analyzes the use of film techniques and the portrayal of Hollywood in such authors as Nathaniel West. Part Three selects one writer who works in both media to discover how his oeuvre specifically reflects this cross-fertilization.

MM 723 "In Bed with an Elephant": The United States and Its Neighbors (3.00 cr.)

In dealing with its neighbors to the south, the United States is not dealing with equals. While it has fore-sworn hegemonic ambitions and wants to be (seen as) a "Good Neighbor," it would seem that "the spirit may be willing, but the flesh is too strong." Examines our advertent and inadvertent flexing of the muscle.

MM 724 Crime and Punishment in Modern Europe and America (3.00 cr.)

Historians have discovered that deviance and its prevention provide a unique perspective into the workings of different societies. The development of criminal justice in modern Europe and America is explored in the context of changing social, political, and intellectual pressures. Evolving patterns of crime, different definitions of deviance, innovations in law enforcement, and the impact of ideology on forms of punishments are examined.

MM 725 Culture of Consumption (3.00 cr.)

The philosophical underpinning of American advertising is examined in order to consider the appropriateness of persuading consumers to buy through commercial appeals. Although the course looks historically at the marketing and economic system of which advertising is a part, the primary focus is on the role advertising plays in shaping Americans' social behavior. Students use observation and self-reflective techniques to describe and interpret participation in our culture of consumption.

MM 726 Technology and Humanity (3.00 cr.)

A philosophical reflection on the impact of technology is pursued in a way that raises new and disturbing questions about what it means to be a human being. We are increasingly aware of the dangers of technology

for the natural environment, but how well do we understand the effects of technology on ourselves, the supposed masters of its unprecedented power? Is modern technology simply a more efficient means for attaining our goals and satisfying our needs, or does technology change us as much as it changes the world around us?

MM 727 War in the Twentieth-Century (3.00 cr.)

The first half of that century was blighted by two of mankind's most destructive wars. Much of the second half involved preparing for a third. Various historical perspectives are employed in order to study this phenomenon in terms of economic, social, legal, bureaucratic, technological, and human factors—beginning with the prototype for twentieth century wars, the United States Civil War.

MM 728 The American Short Story in the Twentieth-Century (3.00 cr.)

Traces the development of American short fiction from the late nineteenth century to present times. Works by Hemingway, Fitzgerald, O'Connor, and Cheever, as well as contemporary practitioners including Latin American and European writers whose work has been influential in the United States.

MM 729 Cauldron: The Middle East Today (3.00 cr.)

The region between the Mediterranean and the Persian Gulf remains a global tinderbox. Located where three continents meet, giving birth to the three great religions, and boasting the world's largest oil reserves, the Near East seems predestined to perennial turmoil and upheaval. If this were not enough, steady outside intervention keeps the cauldron boiling.

MM 731 The Society Without the Father: Philosophical Reflections on the Meaning of Modernity (3.00 cr.)

What is a father? What role does the father play in the emotional and symbolic development of the child? These questions have special urgency amid the epochal changes of the modern period; in many ways modernity represents a crisis of father's role. A philosophical reflection about the meaning of paternity is pursued, including a psychoanalytic perspective and the symbolic function of paternity as it has variously evidenced itself in social, political, moral, and religious life.

MM 732 Ways to See in the Twentieth-Century: Religion and Science (3.00 cr.)

What is the place of religion in an age of science? Is there a view of God that is consistent with scientific

understanding? The thought of modern scientific writers like Carl Sagan, Stephen Hawking, Edward O. Wilson, and Fritjof Capra is compared with the theological reflections of Henry Morris, Teilhard de Chardin, and others. Topics include views of creation and evolution, life and mind, and God and nature.

**MM 734 The End of Order:
The New Southern Writers (3.00 cr.)**

A study of the modern myth of the South as revealed by its foremost writers, who present themselves as the last champions of an order vitally needed in contemporary experience. Includes works by Faulkner, O'Connor, Percy, Warren, Welty, Williams, and others as well as a significant film component.

MM 735 American Life in Film (3.00 cr.)

Since their beginning, the movies have been used to explore and sometimes criticize national attitudes and mores. This course examines films about life in the United States, focusing on both American and European directors, including Welles, Capra, Altman, Chayefsky, and Antonioni. The course also provides students with basic cinematic terms and techniques, and with some of the central issues in recent film criticism.

MM 736 Music in America: The Coming of Age (3.00 cr.)

American music burst into the twentieth century not as the awkward stepchild of European parentage but as a respectable sophisticate. The development of the American music(al) scene is examined, including music for the concert hall, stage, and theatre. The marketing of "serious" music via radio and television is also discussed.

**MM 737 The Camera's Eye: The Films of
William Wyler and Alfred Hitchcock (3.00 cr.)**

An examination of the work of two of Hollywood's great directors, whose "creative eye" helped refine American taste in film and reflected this nation's morals, fears, pride, happiness, and cruelties. The cinematic techniques and signatures of these innovative filmmakers are studied along with the thematic content of their work. Films include *Dodsworth*, *Psycho*, *The Little Foxes*, *Rear Window*, *The Heiress*, *Marnie*, and others.

MM 739 Marriage as Metaphor (3.00 cr.)

From the nineteenth century doctrine of separate spheres to the widespread use of prenuptial contracts and marital imagery to describe corporate mergers, the marriage metaphor has undergone great changes in the past hundred years. This course focuses on the

religious, legal, and literary evolution of the idea of marriage in the twentieth century.

CREATIVE PROCESS: "WAYS TO SAY"

**MM 640 Introduction to Photographic
Expression (3.00 cr.)**

An introduction to photography as an artistic medium as well as a vehicle for illustration, persuasion, and propaganda. The methods by which the black and white image is manipulated and controlled in both the studio and the darkroom will be examined to facilitate the student's understanding of the creative process through which the photographer creates an image that is more than "recording." *Students not owning their own camera should contact the instructor prior to the start of the semester.*

MM 641 Minding Metaphors (3.00 cr.)

Through workshops, lecture, and discussion, students explore the crafting of contemporary poetry. Readings encompass theory and a wide range of poets. Writing assignments consist exclusively of poems; students will enjoy broad latitude in subject and approach. *No previous experience or expertise in writing poetry is required.*

MM 645 Workshop in Creative Expression (3.00 cr.)

Through a series of classroom experiences, discussion, and critique of student work done outside of class, the nature of creative activity as problem solving, as effective communication, and as artistic expression is explored. Students work in one visual medium (painting, drawing, photography, collage) and one performance medium (acting, mime, dance). Techniques of theatrical improvisation assist students in overcoming impediments to creative expression and in making them aware of the source and nature of creative activity. *Technical mastery of media is not required.*

**MM 647 Writing and Reading Children's
Literature (3.00 cr.)**

A study of recurring themes in classic and contemporary children's literature and picture books. Students write original children's stories and consider such questions as: What makes a children's book a classic? What are the current trends in children's publishing? Course readings include *The Uses of Enchantment* by Bettelheim, Grimm's *Fairy Tales*, *Charlotte's Web* by E.B. White, and others.

MM 648 Thinking through Art (3.00 cr.)

Emphasis is placed on the study of the nature of creativity, the creative process, and how this has been revealed through contemporary art. Students have the opportunity to be creative by doing a series of art projects which involve mixed media and display aspects of contemporary art.

MM 649 Creative Color Photography (3.00 cr.)

Methods of creating and controlling images through color photography are examined to show how color photographers continue the pictorial tradition of western art. Creative and aesthetic problems unique to color photography are considered. The effect of color on the audience, as well as the relationship between photography and other visual media are explored. *Students not owning their own camera should contact the instructor prior to the start of the semester, if possible.*

MM 656 The Art of the Modern Essay (3.00 cr.)

The essay today is alive and thriving, accommodating a wide range of voices and styles. We start with Montaigne, who essentially invented the essay in its modern form. We then consider works by many more contemporary practitioners, including Lopate, Orwell, and Updike. In addition to a brief critical essay, students submit two other well-polished essays on topics (and in a style) of their own choosing.

MM 657 The Digital Image (3.00 cr.)

Examines the computer as a multidisciplinary tool; the impact of digital programs such as Photoshop on the creation of visual images; and the ways such programs can be used to modify or enhance visual statements. The development of the student's creativity is an essential goal of the course. *Prior computer experience is not necessary.*

MM 658 Art Forms and the Computer Age (3.00 cr.)

An exploration of the computer's potential as a form and a tool for artistic expression. Through assigned as well as self-generated projects, students explore several new routes for artists. The class involves three sections: digital image production, artists' book formats, and webpage authoring. The class also discusses the social context and challenges of this medium as well as the opportunities it presents.

MM 659 Film and Video: Theory and Practice (3.00 cr.)

A study of the development of theories of film and cinema aesthetics and an examination of the techniques of

film and video production as they are employed in the creation of artistic works in these two media. Students produce and direct short videos as part of the course's laboratory experience. *It is not necessary for students to own a video camera to complete course requirements.*

MM 740 Short Story Writing (3.00 cr.)

Students examine closely the modern short story as a distinctive art form, paying particular attention to questions of structure, audience, and voice. They also read and analyze the works of a wide range of accomplished short story writers, including Anton Chekhov, Katherine Mansfield, Raymond Carver, William Trevor, and Roald Dahl. Most importantly, they write and revise two well-crafted stories of their own.

MM 741 Book Making and Journal Writing (3.00 cr.)

The journal is examined as a means to tap the student's creative potential. An exploration and analysis of the history of the "Artist's Book" as it relates to the journal and creative expression. Concurrent with learning the history of the artist's book, students construct a book they will use for their journal, drawing upon various methods of book construction from Japanese nonadhesive binding to traditional case-bound, hard cover books. Once the journals have been constructed, students explore the abundant approaches to journal writing.

MM 742 Memoir Mon Amour: Autobiography, Biography, and Memoir (3.00 cr.)

Our need to read and write our life stories is a desire to understand how the individual is shaped by society and to reflect on culturally inherited life scripts. Through workshops, lecture, and discussion, students explore the strategies writers use to create "self" and "other" as they craft personal experience into art. Discussion of theory is balanced with writing assignments so that students experience the rewards and challenges of life writing firsthand.

COLLEGE OF ARTS AND SCIENCES
PASTORAL COUNSELING

OFFICE: Columbia Campus, Room 302

TELEPHONE: 410-617-7620 or 800-221-9107, x7620

CHAIR: Robert J. Wicks, Professor

ASSOCIATE CHAIR FOR ACADEMIC

OPERATIONS: Sharon E. Cheston

FOUNDING DIRECTOR: Barry K. Estadt (emeritus)

**CO-DIRECTORS OF DOCTORAL CLINICAL
EDUCATION AND ADMISSIONS:** Joseph W.

Ciarrocchi, Kelly M. Murray

**DIRECTOR OF M.S.-C.A.S. CLINICAL
EDUCATION:** Beverly Eanes

ASSOCIATE CHAIR FOR PASTORAL AND

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ASSOCIATE DIRECTOR OF RESEARCH;

**DIRECTOR OF THE INSTITUTE FOR RELIGIOUS
AND PSYCHOLOGICAL RESEARCH:**

Ralph L. Piedmont

DIRECTOR OF M.S./C.A.S. ADMISSIONS:

Geraldine M. Fialkowski

PROFESSORS: Sharon E. Cheston; Joseph W. Ciarrocchi; Barry K. Estadt (emeritus); Joanne Marie Greer; Robert J. Wicks

ASSOCIATE PROFESSOR: Ralph L. Piedmont

ASSISTANT PROFESSORS: Beverly E. Eanes; C.

Kevin Gillespie, S.J.; Kelly M. Murray

ADJUNCT FACULTY: Virginia L. Billian;

Donelda A. Cook; Robert F. Davenport; Ronald

F. Ellis; Geraldine M. Fialkowski; Shawn W. Hales;

Eleanor D. Hamilton; John M. Hayes; Jeffrey H.

Herbst; Gary P. Huss; John S. Jeffreys; Anthony F.

Krisak; John L. McLaughlin, Sr.; Mary Ellen

Merrick, I.H.M.; Dale L. Peterson; David M.

Reile; S. Peter Resta; Frank J. Richardson, Jr.; Jill

R. Holmes Robinson; Thomas E. Rodgerson;

Nancy-Jo M. Scheers; Anne Ross Stewart; Toni

Roth Sullivan; Michael G. Tebeleff; W. Gary

Thompson; Allan Tsai; Anne Marie Wheeler;

Peter C. Wilcox

The Pastoral Counseling program is holistic in scope. It seeks to understand the human search for meaning and purpose in all its complexity, espousing a growth-oriented, interactional approach which attempts to interpret human behavior and human experience as an integration of the physiological, the intellectual, the emo-

tional, the social, and the spiritual. The program addresses the search for meaning beyond the concrete circumstances of daily life and the reaching out for spiritual understanding. It encourages a faith which transcends the here and now while participants explore the richness of the human person and of their own individuality.

The Pastoral Counseling Program seeks to be a collegium, inviting individuals to a common pursuit of truth. In this pursuit, the focus is on the student. In the words of a Site-Visitation Team of the American Association of Pastoral Counselors (AAPC): "The program is marked throughout by the dictum of St. Francis de Sales: 'Nothing is so strong as gentleness; nothing so gentle as real strength.' As a result of that dominant spirit, both students and staff find relating to the program to be self-esteem enhancing and personally enriching." The AAPC team states further, "The student is expected to be authentic and open, engaged in personalized learning, and developing a personal style of counseling. Faculty and supervisors attempt to relate to students as they would have students relate to their clients." There is a genuine sense of co-pilgrimage among faculty and students in this collegial effort.

The master's, certificate of advanced study, and doctoral programs in pastoral counseling and the master's program in spiritual and pastoral care allow for both full- and part-time participation. The department recognizes that candidates vary widely in prior theoretical background, counseling experience, and experience in ministry. While candidates normally pursue the same basic program, the extent of prior experience will determine the intensity with which the candidate can pursue the degree(s). In the case of advanced level candidates, an individualized assessment is made and a program of study is developed in keeping with one's level of proficiency.

Graduates make a point of stressing that the training had a profound impact on their style of ministering in areas other than counseling and individual pastoral care, pointing to an increased person-centeredness in their teaching, preaching, organizing, and celebrating.

DEGREE PROGRAMS**MASTER OF SCIENCE IN
PASTORAL COUNSELING (M.S.)**

Combines a strong didactic core curriculum with an equally strong experiential counseling component in order to prepare graduates for a career in counseling and for an opportunity to seek licensure or certification. In addition, there is an opportunity to select electives which can be used to specify or diversify the student's area of interest. Finally, the degree requires completion of a thesis paper which serves to integrate the student's didactic development, counseling experience, theological reflection, and personal growth. Upon completion of the M.S. in Pastoral Counseling, graduates receive two basic and two advanced Clinical Pastoral Counseling (CPE) units.

**MASTER OF ARTS IN SPIRITUAL AND
PASTORAL CARE (M.A.)**

Enables the student to understand pastoral care and ministry from psychological and spiritual perspectives. Acquired skills are in the areas of bereavement counseling, biblical spirituality, and spiritual guidance. The degree involves a concentration of five theology courses, a psychological concentration of four courses, two electives, a pastoral integration course, and a thesis. The student may perform ministry in a pastoral placement for one elective course. Examples of such include clinical pastoral education (CPE), church ministry, and retreat ministry. The coursework and thesis may be completed in one year.

**CERTIFICATE OF ADVANCED STUDY IN
PASTORAL COUNSELING (C.A.S.)**

Offers advanced-level didactic courses, integrating seminars, intensive in-depth supervisory experiences, and an optional internship experience. Students employed in the counseling field may submit their work for consideration as an optional internship. If approved, the certificate program enriches the work experience with advanced-level didactic and supervisory experiences. The certificate program prepares the candidate for advanced-level practice as a pastoral counselor.

The C.A.S. requires the satisfactory completion of 30 credits and provides an opportunity for a post-master's internship experience of 1,000 hours. It provides an opportunity to work toward member status in the American Association of Pastoral Counselors, certification by the National Academy of Certified Clinical Mental Health Counselors, certification by the National Board for Certified Counselors, and state licensure or certification.

**DOCTOR OF PHILOSOPHY IN
PASTORAL COUNSELING (PH.D.)**

The Ph.D. in Pastoral Counseling at Loyola College is unique in the United States in its integration of the religious world view with the science and practice of the contemporary behavioral sciences. The program attempts a threefold integration involving: religious, spiritual, theological understandings; clinical theory and practice; and empirical research methodology.

Programmatic emphasis on empirical research rigor in addressing psycho-theological issues offers an innovative approach to a more complete understanding of the experience and behavior of the human person in an increasingly complex society. Such an integrated approach is of special interest to individuals who wish to enhance the religious perspective with contemporary scientific methodology and clinical techniques of the developing helping professions.

The Ph.D. program is intended to prepare individuals to:

1. Function as pastoral counselors at an advanced level of competency.
2. Teach and supervise persons for the pastoral ministry and/or pastoral counseling in congregations, in pastoral counseling centers, in seminaries, in theological schools, in ministry training programs, and in other appropriate institutions of learning.
3. Further the understanding of the person interrelating the theory and technique of the contemporary helping professions with the insights of theology and faith.

4. Communicate to the general public, the churches, and the ministerial professions the results of a holistic interdisciplinary understanding of the person.
5. Take a leadership role within one's respective denomination, ecumenical ministerial organizations, and the helping professions.
6. Take a leadership position within the profession through teaching, professional activity, and publication.

In keeping with the goals of the program, the Ph.D. curricular requirements involve four major areas: Theory and Practice of Counseling; Statistics and Research Design; Clinical Case Conferences; and Theological Studies and Integrative Seminars. A detailed overview of the typical sequence of courses is available from the department.

In addition to traditional academic courses, the Ph.D. program involves a clinical internship experience of no less than 1,500 hours, typically spread over a two- to three-year period. The internship includes on-site clinical experience and supervision in one or several agencies supplemented by Loyola-based individual supervision, clinical mentoring, clinical case conferences, and supervisory seminars.

The research sequence involves a systematic block of courses designed to assist candidates in acquiring competence in applied research methods and statistics.

Throughout the course of study, candidates are challenged to integrate their theological and religious perspectives with clinical theory and practice and to articulate their personal, vocational, and pastoral identity.

LANGUAGE REQUIREMENT (PH.D.)

A high proficiency in oral and written English is expected of all applicants. In addition, the Department requires that applicants provide documentation of proficiency in one language other than their native language.

English-speaking applicants may meet the language requirement by submitting undergradu-

ate or graduate transcripts which reflect the successful completion of the equivalent of six semester credits in an international language. The department will review any other nonacademic documentation of proficiency that an applicant may provide. Inability to meet this requirement at the time of application should not be construed as disqualifying an applicant, since students will have an opportunity to meet this requirement during doctoral studies.

International students are required to submit results of the TOEFL (Test of English as a Foreign Language) to the Department as a part of their application packages. Applicants must have a minimal TOEFL score of 550 to enter any of the three programs of study. In addition, because of the verbal requirements of the clinical portion of the Ph.D. program, all international students must demonstrate an excellent command of the English language, including nuances of every day speech that will occur during the counseling experience.

THERAPY REQUIREMENT

All pastoral counseling students are required to engage in a minimum of 30 sessions of professional mental health counseling or psychotherapy before the completion of the first clinical year. These sessions must have occurred within the last five years. Students who have not completed this requirement before entering the program will be given assistance in finding a therapist in the area.

ACCREDITATION

The American Association of Pastoral Counselors
The Council for the Accreditation of Counseling
and Related Educational Programs

The Council for Accreditation of Counseling and Related Educational Programs (CACREP), a specialized accrediting body recognized by the Council on Postsecondary Accreditation (COPA), has conferred accreditation to the Masters of Science (M.S.) in Pastoral Counseling.

ADMISSION CRITERIA

Applicants for either master's program must have a bachelor's degree from an accredited college or university. Candidates are evaluated more in terms of their overall readiness to take advantage of the learning opportunities of the program and less in terms of specific course preparation.

An in-person admissions interview is required of all applicants within the continental United States and Canada. An admissions telephone interview is required of all applicants outside the continental United States and Canada.

PH.D. CANDIDATES

The program accepts candidates who give clear evidence of the ability to deal with theoretical constructs, develop advanced level clinical skills, and integrate the above within the context of a religious and/or pastoral identity.

The doctoral curriculum assumes that the candidate has laid the foundation in theoretical knowledge and clinical skill through prior education and training comparable to the Loyola master's program in pastoral counseling. Candidates without such background may wish to apply for admission to the M.S.-Ph.D. sequence. If an applicant with a master's degree from another institution is judged to be qualified for admission to the Ph.D. program but is lacking in specific areas of preparation, an assessment of prerequisites will be made at the time of admission.

APPLICATION DEADLINES**M.A./M.S./C.A.S. Applicants**

New students for the Summer/Fall	April 1
New students to begin in January	November 1

Ph.D. Applicants

New students for the Fall	February 1
Deposit of \$1,000 due	May 15

CREDITS REQUIRED

The M.S. in Pastoral Counseling requires 52 credits. The Certificate of Advanced Study in Pastoral Counseling requires 30 credit hours beyond the master's degree. The Ph.D. in Pastoral Counseling involves a minimum of 48 credits beyond the master's degree and assure competency in several areas of study plus a doctoral dissertation. The M.A. in Spiritual and Pastoral Care requires 39 credits.

DEGREE REQUIREMENTS

For further information on specific degree requirements and course offerings, contact the Pastoral Counseling Department.

SUPERVISORY PROCESS (M.S./C.A.S./PH.D.)

Supervision of the on-going counseling experience is regarded as the primary catalyst for professional and personal integration.

Supervision is a special kind of tutorial relationship in which people with less experience present their work for the scrutiny and critique to people with more experience. The focus of the supervisory session is the work-sample presented along with the variety of issues which the work-sample generates.

HOUSING

Housing possibilities for out-of-the area students are diverse depending upon personal interest, budget, and special needs. A few basic facts about our geographical situation will be helpful in making a choice of housing. All courses are held at the Columbia Campus, about 35 minutes by automobile from the center of Baltimore or Washington, D.C. Practicum opportunities are available in the Baltimore-Columbia-Washington area; however, there are a great number available for candidates who are Columbia or Baltimore based.

For further information about housing, contact the Pastoral Counseling Office.

TUITION AND CLINICAL TRAINING FEES

The Pastoral Counseling Program, because of its focus on small group clinical case supervision and interdisciplinary case conferences, requires a clinical training fee to cover the expenses of its tutorial-type approach during each clinical semester. All tuition and fees are subject to change.

Master of Science in Pastoral Counseling (FT)

Tuition (<i>per credit</i>)	\$295.00
Clinical Training Fee (<i>per clinical course; four courses</i>)	\$1,100.00

Master of Science in Pastoral Counseling (PT)

Tuition (<i>per credit</i>)	\$295.00
Clinical Training Fee (<i>required for each of the four clinical courses; one each semester</i>)	\$1,100.00

Master of Arts in Spiritual and Pastoral Care

Tuition (<i>per credit</i>)	\$295.00
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Certificate of Advanced Study

Tuition (<i>per credit</i>)	\$295.00
Advanced Clinical Training Fee (<i>per semester for two semesters</i>)	\$1,100.00
Advanced Individual Supervisory Fee (<i>PC 805, PC 806; per semester; required for AAPC-track students</i>)	\$250.00

Doctor of Philosophy in Pastoral Counseling

Tuition (<i>per credit</i>)	
700/800-level courses	\$295.00
900-level courses	\$395.00
Dissertation Fee (<i>per semester</i>)	\$1,400.00

PAYMENT

The Pastoral Counseling Department follows the College's policies on Mail-In, Walk-In, and Web Registration. (see Payment Options in Fees chapter of this catalogue). In addition, the Department offers special financial programs to pastoral counseling students seeking a degree.

INSTALLMENT PLAN

Students whose tuition and professional supervisory fees are \$2,000 or more may elect to use the College's installment plan. There is a modest interest charge in connection with this plan. A down-payment of 30 percent of the total charges must accompany the registration.

Use of the installment plan requires signing of a promissory note. The note may be executed in person at Student Administrative Services (Baltimore Campus) for Walk-In Registration. A promissory note will be mailed to the student the day after the student completes Web Registration. It must be returned to Student Administrative Services within ten days to avoid cancellation of the registration.

The installment plan is not available for Mail-In Registration.

THIRD PARTY BILLING

All third party billing requests must have a third party letter of authorization attached to the Registration Request or Remittance Forms. A new letter must be presented at the beginning of each school year.

COURSE DESCRIPTIONS
PC 608 Theological Anthropology (3.00 cr.)

A basic study of theology which deals with the overarching themes in religious experience: creation, sin, suffering, freedom, conversion, salvation, incarnation, and grace.

PC 625 Loss and Bereavement (3.00 cr.)

Didactic and experiential in a seminar style dealing with issues of loss and bereavement through death. Personal experiences enhance the content which includes the process of bereavement, sensitivity to grief, and counseling principles. Identifies cultural variations in response and rituals. Encourages students to explore the bereavement process relative to their own lives by sharing in small groups and in personal writings.

PC 630 Treatment of Personality Disorders (3.00 cr.)

Prerequisite: PC 675 or PC 679, PC 678. Examines issues related to the diagnosis and treatment of severe personality disorders. Selected readings survey different

historical and theoretical perspectives including those of Kernberg, Kohut, Masterson, and Linehan.

PC 645 Readings in Carl Jung (3.00 cr.)

Beginning with Jung's autobiography, students read a number of his works dealing with the integration of psychological and religious experience. Discussion focuses on Jung's notion of psychological types, the archetypes, his notion of wholeness, the transcendent function, religiously related psychopathology, and his approach to dream interpretation.

PC 650 Substance Abuse (3.00 cr.)

An overview of substance abuse and addictions with special emphasis on diagnosis and treatment of the addictive personality.

PC 653 Introduction to Statistics and Research Methods (3.00 cr.)

An overview of various research methods, research design, and statistical applications. Includes ethical and legal considerations of research and implications for the human services field. Requirements include the development of a research proposal and evaluation of research and program objectives.

PC 654 Career Development (3.00 cr.)

Focuses on testing and data collection as a method of exploration of career choice and life-style, of sources of occupational and educational information, and of different approaches to career decision making. Candidates develop a statement of personal career and vocational direction. Includes ethical and legal issues, professional identification, and multicultural and social issues related to career.

PC 655 Group Theory and Practice (3.00 cr.)

Didactic and practicum blended approach to the understanding of group theory, types of groups, group dynamics, methods, and facilitative skills. Includes ethical and legal issues as well as multicultural and social issues related to groups.

PC 656 Advanced Helping Relationship (3.00 cr.)

Prerequisite: PC 675. Students receive advanced training in forming a helping relationship and in the theoretical bases of the therapeutic relationship. Video tapes and in vivo demonstrations with feedback from peers and faculty.

PC 660 Masters Clinical Mentoring (3.00 cr.)

Prerequisite: PC 674, PC 675, PC 676, PC 678. *Corequisite:* PC 661, PC 662, PC 663, PC 664, PC 801, PC 802, PC 803, or PC 804. Students enter into clinical mentoring relationships with faculty members who supervise and evaluate their clinical work. *May be repeated for credit. A clinical training fee is charged. (Pass/Fail)*

PC 661 Clinical Case Supervision I (3.00 cr.)

Prerequisite: PC 674, PC 675, PC 676, PC 678. Thirty hours per semester of clinical supervision in a small group. The student participates in internship experiences each semester. Written and oral presentations accompanied by audio and video recordings form the basis of the supervisory process. Focuses on the dynamics of the counseling relationship, diagnosis, treatment, and legal/ethical issues. *A clinical training fee is charged. (Fall/Spring)*

PC 662 Clinical Case Supervision II (3.00 cr.)

Prerequisite: PC 661. A continuation of PC 661. *A clinical training fee is charged. (Spring/Summer)*

PC 663 Clinical Case Supervision III (3.00 cr.)

Prerequisite: PC 674, PC 675, PC 676, PC 678. *Written permission of the Clinical Committee is required.* A continuation of PC 662. *A clinical training fee is charged. (Fall only)*

PC 664 Clinical Case Supervision IV (3.00 cr.)

Prerequisite: PC 663. A continuation of PC 663. *A clinical training fee is charged. (Spring only)*

PC 665 Contemporary Religious Perspectives (3.00 cr.)

Investigates the foundational spiritual concerns lying at the heart of contemporary faith traditions. Current dialogue among theologians representative of the various communities provides the privileged means of access into these basic concerns. Focuses on the uniqueness of each tradition and emerging areas of agreement.

PC 673 Crisis Intervention (3.00 cr.)

Crisis intervention theory, skills, and techniques. Case studies in crisis intervention. Studies change, crises in different cultures, and legal implications of crisis intervention. Practice focuses on counselor awareness and understanding.

PC 674 Human Development (3.00 cr.)

Personality development through the life stages, from infancy to old age, with special attention to the role of pastoral spirituality. Emphasizes psychological, sociological, physiological, and theological approaches as well as implications of arrested development. Covers

the emergence of differing life patterns, cultural mores, and population patterns including multicultural and social issues.

PC 675 The Helping Relationship (3.00 cr.)

Lecture-practicum experiences which introduce students to a wide range of counseling situations and the philosophy of helping. Attending, responding, and initiating skills are taught. Special focus includes exploration of different ethnic/cultural, gender, and age issues. Includes ethical and legal issues as well as consultation theory, professional identification, and orientation as related to this topic. A personal therapeutic experience is required for the writing of the major paper. *May be repeated for credit.*

PC 676 Counseling Theory and Practice (3.00 cr.)

An introductory course which includes: a) an overview of several theoretical approaches to counseling; b) a consideration of what is uniquely pastoral in pastoral counseling; c) the community counseling environment of practice and its history, philosophy, trends, and roles; d) an orientation to relevant professional organizations, certification, licensure, and codes of ethics. Includes ethical and legal issues, professional identification, consultation theory and practice, and multicultural and social issues.

PC 678 Psychopathology (4.00 cr.)

An overview of the major psychiatric problems included in the DSM. Emphasizes preliminary assessment through the pastoral interview, crisis intervention, referral, and follow-up. Includes ethical and legal issues, professional identification, and orientation as related to this topic. Also discusses multicultural and social issues in relation to this subject. *May be repeated for credit.*

PC 679 Pastoral Helping Relationship (3.00 cr.)

Introduces the M.A. student to counseling skills necessary for pastoral care situations. Such counseling skills as attending, responding, and initiating are taught. An experience of being guided by a spiritual director is required for the writing of a final paper.

PC 681 Introduction to Family Therapy (3.00 cr.)

An overview of the family counseling field including major systems theories, stages of family therapy, and treatment strategies. Special focus on pastoral/spiritual issues.

PC 682 Group Counseling (3.00 cr.)

An experience of group process in a variety of practicum situations along with an assessment of the relationship of practicum experience to the accumulated body of knowledge concerning personal growth through group participation. Special application to the pastoral setting. Includes ethical and legal issues as well as professional identification and orientation as related to this topic. Also discusses multicultural and social issues in relation to this subject.

PC 686 Couple Counseling (3.00 cr.)

Prerequisite: PC 674, PC 675, PC 676, PC 678. Recommended Prerequisite: PC 661. An introduction to the theory and practice of working with couples in counseling. Special attention to the factors which contribute to relational disorders. An overview of counseling resources. Videotaped role playing and critique.

PC 687 Spiritual Direction (3.00 cr.)

Introduction to the ministry of spiritual direction: nature of spiritual direction, preparation and role of spiritual director, relationship of spiritual direction to counseling, and current issues in spiritual direction. Formulation of personal approach to spiritual direction. Lecture-discussion-personal experience format.

PC 689 Psychological Testing and Assessment (3.00 cr.)

Prerequisite: PC 653 or PC 753. Focuses on the understanding of the individual through methodology of data collection, testing, and interpretation. An overview of the field of psychological testing: basic concepts, aptitude and achievement testing, interest and personality inventories, and projective techniques. The psychological report. Didactic experiential approach. Includes ethical and legal issues as well as professional identification and orientation as related to this topic. Also discusses multicultural and social issues in relation to this subject.

PC 690 Pro-Seminar (3.00 cr.)

Prerequisite: PC 661, PC 663. An opportunity for faculty supervision and peer interaction in the development of the M.S. candidate's final project which integrates the student's spiritual, theoretical, clinical, and personal perspectives. *(Pass/Fail)*

PC 691 M.A. Thesis I (3.00 cr.)

Prerequisite: Written permission of a faculty member is required. The M.A. thesis will be written on an area of spiritual and pastoral care under the guidance of a faculty member. *(Pass/Fail)*

PC 692 M.A. Thesis II (3.00 cr.)

Prerequisite: Written permission of a faculty member is required. A continuation of PC 691. May be repeated until thesis is complete. (Pass/Fail)

PC 694 Special Topics in Pastoral Counseling (1–3.00 cr.)

An opportunity for students to pursue topics of special interest. The project requires the direction of a member of the faculty and the approval of the department. The intent is to allow students the opportunity to pursue an interest in an in-depth fashion. (Guidelines for submitting a proposal are available from the Pastoral Counseling Office.)

PC 697 Biblical Spirituality (3.00 cr.)

Focuses on the relationship of biblical men and women with God. Students uncover the variety of ways in which God initiates and people respond to the Lord's love. Students note the movement of the Spirit in their lives and communities by learning to do theological reflection on their ministry. They practice praying with scripture and develop skills in leading others to pursue scripture for personal prayer and spiritual growth.

PC 700 Pastoral Integration Seminar (3.00 cr.)

Prerequisite: PC 608 or PC 665, PC 661, PC 674, PC 675, PC 676, PC 678. Prepares students to integrate psychology and spirituality in their own lives and work in pastoral counseling/care. Topics include unlearning; a central pastoral dimension; dragon riding lessons; turning the corner in the spiritual life; overcoming resistance to change; prayer and prayerfulness; theological reflection and discernment, treatment of abuse as a paradigm for conversion, and the working through phase of psychotherapy; grace, crisis, and faith. *To be taken near the end of the program.*

PC 701 Spiritual and Pastoral Care (3.00 cr.)

An introduction to the area of spiritual and pastoral care. Covers the definition of spirituality; the practical experience of caring for parishioners and community members in a pastoral way; and areas such as social concern, justice issues, and special population ministries.

PC 702 Theology of Ministry (3.00 cr.)

Different models of ministry are explored and defined. Students are challenged to define their own methods of ministry on personal and practical or functional levels.

PC 703 Group Spiritual Formation (3.00 cr.)

Introduces students to some of the central issues of spirituality within a group setting. Presents issues such as discernment of spirits, spiritual reading, and the use of silence in care giving. Group exercises facilitate the appropriation of such skills. Students write a spiritual autobiography for the final paper.

PC 704 Group Spiritual Guidance (3.00 cr.)

Prerequisite: PC 703. Presents students with topics relevant to spiritual guidance. Considers topics such as the significance of appraisal, hope, and referrals within the pastoral care context. Themes relevant to the integration of spirituality and psychology are discussed within a group setting.

PC 705 Pastoral Care Integration (3.00 cr.)

Designed to enable the M.A. student to integrate issues and resources in spirituality and psychology. Readings, reflection papers, and research are assigned to enhance the student's capacity for compassion and competency in pastoral care giving. Intended to be taken a semester before the M.A. thesis course, PC 705 serves to move the student toward the writing of a thesis.

PC 712 Introduction to Treatment of Children and Adolescents (3.00 cr.)

Reviews the individual and family treatments of children and adolescents. Focuses on the psychodynamic and learning theory approaches. Includes a review of relevant aspects of child and adolescent development and psychopathology.

PC 726 Diversity Issues in Counseling (3.00 cr.)

An introduction to diversity issues in counseling emphasizing the cultural, social, gender, sexual orientation, and community contributions to human development and mental health. Students explore and challenge their assumptions of their own diverse backgrounds and develop the knowledge and sensitivity to working with those from different backgrounds, attributes, and cultures.

PC 753 Statistics I (3.00 cr.)

Prerequisite: College Algebra. A survey of elementary techniques of parametric statistics through one-way ANOVA, and an introduction to nonparametric statistics. An introduction to the use of SPSS-PC computer software. Students design and carry out a simple research project. *An introductory course for Ph.D. and M.S./Ph.D. students; other students enroll in PC 653.*

PC 754 Statistics II (Multiple Regression) (3.00 cr.)

Prerequisite: PC 753 or PC 653 and written permission of the instructor are required. General considerations in regression analysis; hypothesis testing in regression; multiple, partial, and multiple-partial correlations; confounding and interaction in regression; regression diagnostics; dummy variables; one-way ANCOVA; use of SPSS-PC for regression analysis.

PC 755 Statistics III (3.00 cr.)

Prerequisite: PC 754. One-way MANOVA; variable reduction and factor analysis; cluster analysis; discriminant analysis; multiple indicators; canonical correlation; development and validation of scales.

PC 756 Advanced Topics in Measurement (3.00 cr.)

Prerequisite: PC 754, PC 914. A tutorial or small group practicum covering two aspects of measurement: (1) the students designs and validates an original instrument; (2) the student administers and interprets a selection of individual personality, intelligence, and psychopathology measures.

PC 778 Treatment of Psychopathology (3.00 cr.)

Focus is on learning advanced skills in differential diagnosis and treatment strategies for outpatient and inpatient intervention.

PC 788 Women's Issues and Pastoral Counseling (3.00 cr.)

Surveys some of the major issues that pertain to women and pastoral counseling. Readings in the psychology of women, therapy with women, women and spirituality, and feminist/womanist theologies. Format consists of some lecture presentation, presentations by class participants, and class discussion.

PC 789 Advanced Quantitative Methods (3.00 cr.)

Prerequisite: PC 754, PC 914. Complex designs in ANOVA, ANCOVA, MANOVA; advanced methods for rates and proportions. A selection of optional topics may also be covered: latent trait analysis, content analysis, computer methods in qualitative analysis. The choice of optional topics takes into consideration the research plans of the participants.

PC 800 Adlerian Psychotherapy (3.00 cr.)

Prerequisite: PC 661, PC 674, PC 675, PC 676, PC 678. Lecture and demonstrations covering the techniques, basic principles, and methods of Adler's individual psychology theory. Topics include life-style, social inter-

est, goals, ordinal positioning, encouragement, and treatment strategies.

PC 801 Advanced Clinical Case Conference:**Cognitive I (3.00 cr.)**

Prerequisite: PC 662, PC 675, PC 678, PC 674, PC 676. Thirty hours per semester of clinical supervision in a small group focusing on cognitive theory and treatment strategies as well as diagnosis and ethical issues. The student participates in internship experiences each semester. Written and oral presentations accompanied by audio and video recordings form the basis of the supervisory process. *A clinical training fee is charged. (Fall only)*

PC 802 Advanced Clinical Case Conference:**Cognitive II (3.00 cr.)**

A continuation of PC 801. *A clinical training fee is charged. (Spring only)*

PC 803 Advanced Clinical Conference I (3.00 cr.)

Prerequisite: Master's level clinical training. An advanced seminar designed to allow students the opportunity of presenting a counseling case in depth, demonstrating to supervisors/peers a level of competence in the total management of a case. Requires a detailed grasp and organization of the case; demonstration of clinical skills; a clear theoretical orientation; and an understanding of one's pastoral identity. *A clinical training fee is charged.*

PC 804 Advanced Clinical Conference II (3.00 cr.)

Prerequisite: PC 803. A continuation of PC 803. *A clinical training fee is charged.*

PC 805 Advanced Individual Supervision I (3.00 cr.)

Consists of 15 hours each semester of individual supervision which may focus on one client to meet AAPC membership or several clients. Intensive process supervision with special attention to middle phase therapy issues. Weekly tapes are required. *A supervisory fee is charged.*

PC 806 Advanced Individual Supervision II (3.00 cr.)

A continuation of PC 805. *A supervisory fee is charged.*

PC 808 Professional and Ethical Issues (3.00 cr.)

Seminar addressing the issues of certification, licensure, membership in professional organizations and a wide range of professional and ethical standards of the major counseling associations and licensure issues in their respective states. Candidates develop a statement of ministerial and professional identity.

PC 809 Advanced Clinical Conference III (3.00 cr.)

Prerequisite: PC 804. A continuation of the opportunities and requirements of PC 803. (*Fall only*)

PC 810 Advanced Clinical Conference IV (3.00 cr.)

Prerequisite: PC 809. A continuation of the opportunities and requirements of PC 803. (*Spring only*)

PC 821 Family Systems Theories (3.00 cr.)

Examines family assessment and intervention from a systems perspective. Presents major theoretical family systems approaches, including strategic, structural, inter-generational, behavioral, and psychodynamic (object relations) family theories. Studies the range of treatment techniques and a variety of treatment modalities within each theoretical orientation. A multicultural approach is an important aspect which will be related to the most appropriate treatment modalities for specific ethnic family systems.

PC 897 Themes in Spiritual Integration (3.00 cr.)

Prerequisite: PC 700. Themes in spiritual development, growth, and integration that arise out of the literature of major religions are examined by looking at the lives and writings of major religious figures. How these themes and guides impact the inner life and work of the pastorally-oriented clinician is addressed. Themes include change, awe, inner peace, mercy, compassion, spiritual darkness, truth, meditation, faithfulness, perspective, discernment, detachment, passion, prayer, justice, solitude, and joy.

PC 898 Religious and Psychological Research (3.00 cr.)

Prerequisite: PC 700, PC 753, PC 897. Presents an overview and summary of the science of people's transcendence-seeking through religious and spiritual experience. Two goals include becoming familiar with the methods and topics that comprise the field known as the psychology of religion, and reflecting on the conceptual underpinnings that a faith perspective brings to these topics while exploring the assumptive worlds and implications of these perspectives. Typical topics in the pastoral counseling domain include measuring religious experience; religion and health; religion and well-being; religious coping; forgiveness; images of God; and positive and negative aspects of religiosity. Students complete an empirical study on a spiritual topic to aid their integrative reflection.

PC 899 Neuropsychological and Psychopharmacological Issues in Clinical Practice (3.00 cr.)

Focuses on brain-behavior relationships and behavioral effects of psychotropic drugs. Topics include neuroanatomy, neurophysiology, brain structure-function relationships, assessment strategies and instruments, behavioral characteristics of various neurological and psychiatric syndromes, neuropsychological effects of systemic diseases, psychotherapy with brain-injured individuals, general principles of psychopharmacology, and use of psychotropic drugs in the treatment of various mental disorders.

PC 900 Theory and Practice of Counselor Education (3.00 cr.)

Students receive instruction in education theory and design their personal theory of education and learning. Students actively participate as a co-instructor in selected courses including writing goals, objectives, and syllabi, as well as lecturing with videotaping and evaluation.

PC 901 Doctoral Clinical Case Conference I (3.00 cr.)

Prerequisite: Written permission of the Clinical Committee is required. Consists of weekly clinical case conferences (5–6 students). Weekly presentations involving audio and videotaped counseling sessions, progress notes, reflections on the supervisory process. Focuses on the introduction of the process of long-term psychotherapy.

PC 902 Doctoral Clinical Case Conference II (3.00 cr.)

Prerequisite: Written permission of the Clinical Committee is required. A continuation of PC 901.

PC 903 Doctoral Clinical Case Conference III (3.00 cr.)

Prerequisite: Written permission of the Clinical Committee is required. Consists of weekly clinical case conferences (5–6 students). Weekly presentations involving audio and videotaped counseling sessions, progress notes, reflections on the supervisory process. Assumes knowledge of the process of and experience with long-term psychotherapy.

PC 904 Doctoral Clinical Case Conference IV (3.00 cr.)

Prerequisite: Written permission of the Clinical Committee is required. A continuation of PC 903.

PC 905 Doctoral Individual Supervision I (3.00 cr.)

Consists of 15 hours each semester of individual supervision which focuses on one client or several clients. Intensive process supervision with special attention to middle phase therapeutic issues. Weekly tapes are required.

PC 906 Doctoral Individual Supervision II (3.00 cr.)

A continuation of PC 905.

PC 914 Research Design and Analysis (3.00 cr.)

Prerequisite: PC 753. Design of experiments; issues in the internal and external validity of research designs; research ethics. Students design and carry out a research project.

PC 921 Cognitive Theory of Psychotherapy (3.00 cr.)

An overview of theoretical foundations of cognitive and behavioral forms of psychotherapy. Emphasis of course is on treatment strategies of mental and emotional disorders. Students analyze a number of clinical treatment manuals and concrete change strategies to discover underlying theoretical foundations in social learning theory for emotions, behavior, human cognition, and their change processes.

PC 922 Psychodynamic Theory of Psychotherapy (3.00 cr.)

Surveys psychoanalytic theories of human development and therapeutic techniques. Following an historical survey of major theorists, the course spans the period from 1895 to present. Emphasizes the applications of the clinical psychodynamic theories in working with clients. Comparisons are made with other theories of human development.

PC 923 Humanistic Theory of Psychotherapy (3.00 cr.)

Existential humanistic approaches to counseling and psychotherapy. A review of seminal contributors, including Bugenthal, Maslow, May, and Rogers. Exploration of major existential themes in counseling. Integration of humanistic/existential perspectives with personal theoretical and theological orientations.

PC 941 Doctoral Mentoring I (3.00 cr.)

Prerequisite: Written permission of the department is required. The student enters into a mentoring relationship with a Loyola faculty member who supervises and evaluates the student's progress in one specified area: clinical, teaching, or research. The content of this personalized mentorship is documented by the mentor with a letter to the student's file explaining the activities of the course. (Pass/Fail)

PC 942 Doctoral Mentoring II (3.00 cr.)

Prerequisite: PC 941. A continuation of PC 941. (Pass/Fail)

PC 943 Doctoral Mentoring III (3.00 cr.)

Prerequisite: PC 942. A continuation of PC 942. (Pass/Fail)

PC 944 Doctoral Mentoring IV (3.00 cr.)

Prerequisite: PC 943. A continuation of PC 943. (Pass/Fail)

PC 945 Doctoral Mentoring V (3.00 cr.)

Prerequisite: PC 944. A continuation of PC 944. (Pass/Fail)

PC 946 Doctoral Mentoring VI (3.00 cr.)

Prerequisite: PC 945. A continuation of PC 945. (Pass/Fail)

PC 947 Doctoral Mentoring VII (3.00 cr.)

Prerequisite: PC 946. A continuation of PC 946. (Pass/Fail)

PC 948 Doctoral Mentoring VIII (3.00 cr.)

Prerequisite: PC 947. A continuation of PC 947. (Pass/Fail)

PC 949 Doctoral Mentoring IX (3.00 cr.)

Prerequisite: PC 948. A continuation of PC 948. (Pass/Fail)

PC 950 Psychospiritual Applications in Clinical Practice (3.00 cr.)

Prerequisite: PC 700, PC 897, PC 898, PC 902. Written permission of the instructor is required. An advanced course in clinical and pastoral integration. Students read and reflect on spiritual themes as they emerge in clinical experience. Clinical case presentations focus primarily on spiritual or religious issues and approaches that will assist clients. Students have the opportunity of exploring their pastoral identity and how it enhances their clinical practice.

PC 952 Theory and Practice of Supervision I (3.00 cr.)

An introduction to the supervisory process. Conceptual frameworks of supervision. Includes a practicum in supervising pastoral counseling students while receiving on-going group supervision of the supervisory practicum.

PC 953 Theory and Practice of Supervision II (3.00 cr.)

A continuation of PC 952.

PC 956 Doctoral Research Seminar (1.00 cr.)

Prerequisite: PC 753, PC 754. Students select a dissertation topic, begin preparing a dissertation proposal, select a dissertation committee, and construct PERT charts for their dissertation projects. Topics also covered: advanced techniques in computerized literature searches, writing a critical review of literature, preparation of journal articles, ethics of human subjects protection in research. Drafts of introductory chapters and literature reviews are critiqued in class.

PC 961 Doctoral Research Supervision I (3.00 cr.)

Prerequisite: PC 956. Individual supervision of the doctoral dissertation proposal or data analysis. Includes a regular tutorial appointment (biweekly) with one committee member. *(Pass/Fail)*

PC 962 Doctoral Research Supervision II (3.00 cr.)

Prerequisite: PC 961. A continuation of PC 961. *(Pass/Fail)*

PC 963 Doctoral Research Supervision III (3.00 cr.)

Prerequisite: PC 962. A continuation of PC 962. *(Pass/Fail)*

PC 964 Doctoral Research Supervision IV (3.00 cr.)

Prerequisite: PC 963. A continuation of PC 963. *(Pass/Fail)*

PC 965 Doctoral Research Supervision V (3.00 cr.)

Prerequisite: PC 964. A continuation of PC 964. *(Pass/Fail)*

PC 966 Doctoral Research Supervision VI (3.00 cr.)

Prerequisite: PC 965. A continuation of PC 965. *(Pass/Fail)*

PC 967 Doctoral Research Supervision VII (3.00 cr.)

Prerequisite: PC 966. A continuation of PC 966. *(Pass/Fail)*

PC 968 Doctoral Research Supervision VIII (3.00 cr.)

Prerequisite: PC 967. A continuation of PC 967. *(Pass/Fail)*

PC 990 Dissertation Guidance I (3.00 cr.)

One of the 990 series courses is required each semester during which the candidate is actively working on the dissertation. Entitles the candidate to consultation with dissertation director, readers, and other consultants as authorized by the director of research. *A dissertation guidance fee is charged for each semester. (Pass/Fail)*

PC 991 Dissertation Guidance II (3.00 cr.)

Prerequisite: PC 990. A continuation of PC 990. *A dissertation guidance fee is charged for each semester. (Pass/Fail)*

PC 992 Dissertation Guidance III (3.00 cr.)

Prerequisite: PC 991. A continuation of PC 991. *A dissertation guidance fee is charged for each semester. (Pass/Fail)*

PC 993 Dissertation Guidance IV (3.00 cr.)

Prerequisite: PC 992. A continuation of PC 992. *A dissertation guidance fee is charged for each semester. (Pass/Fail)*

PC 994 Dissertation Guidance V (3.00 cr.)

Prerequisite: PC 993. A continuation of PC 993. *A dissertation guidance fee is charged for each semester. (Pass/Fail)*

PC 995 Dissertation Guidance VI (3.00 cr.)

Prerequisite: PC 994. A continuation of PC 994. *A dissertation guidance fee is charged for each semester. (Pass/Fail)*

PC 996 Dissertation Guidance VII (3.00 cr.)

Prerequisite: PC 995. A continuation of PC 995. *A dissertation guidance fee is charged for each semester. (Pass/Fail)*

OFFICE: Beatty Hall, Room 220

TELEPHONE: 410-617-2696

CHAIR: Amanda M. Thomas, Associate Professor

ASSOCIATE CHAIR: David V. Powers, Assistant Professor

DIRECTOR, CLINICAL TRAINING:

Jeffrey M. Lating, Associate Professor

DIRECTOR, MASTER'S AND FIELD

EDUCATION: Deborah G. Haskins, Adjunct Assistant Professor

PROFESSORS: Faith D. Gilroy; Martin F. Sherman

ASSOCIATE PROFESSORS: David G. Crough; Jeffrey M. Lating; Charles T. LoPresto; Jenny L. Lowry; Steven A. Sobelman; Amanda M. Thomas

ASSISTANT PROFESSORS: Jeffrey P. Baerwald, S.J.; Carolyn McNamara Barry; Kerri Anne Goodwin; Sharon Green-Hennessy; Matthew W. Kirkhart; Jonathan J. Mohr; David V. Powers

ADJUNCT FACULTY: Jeffrey Barnett; George S. Everly, Jr.; Kirk M. Griffith; Deborah G. Haskins; Judith V. Kehe; Jerome F. Kowalewski; Saul L. Lindenbaum; Cynthia Mendelson; Jason Parcover; Lawrence J. Raifman; David L. Waltos

The original graduate program in psychology began in 1967 as a concentration in school psychology within the Education Department and led to the Master of Education (M.Ed.). In 1968, the Psychology Department was created and the program expanded to offer the Master of Arts in Psychology (M.A.). In 1971, the department also developed a Master of Science in Psychology (M.S.). In 1996, the Doctor of Psychology in Clinical Psychology (Psy.D.) was introduced. The department currently offers degree programs in the following areas:

M.A./M.S. in Clinical Psychology

M.A./M.S. in Counseling Psychology

C.A.S. in Psychology

Master's-Plus: Licensed Clinical Professional Counselor (LCPC) Courses

Psy.D. in Clinical Psychology

The Psychology Department is a member of the Council of Applied Master's Programs in Psychology and is an associate member of the National Council of Schools and Programs of Professional Psychology.

MASTER OF ARTS/SCIENCE IN CLINICAL OR COUNSELING PSYCHOLOGY (M.A./M.S.)

The M.A. program prepares students to continue on to a doctoral degree program. Students gain proficiency in psychological theory, assessment, and research application. An empirical thesis is required for completion of the program. Many M.A. graduates of Loyola continue their training in a Ph.D. program.

The M.S. program prepares students to begin employment in psychology under the supervision of a doctoral trained and licensed psychologist. In addition, some M.S. students apply to Psy.D. programs of study, since these programs attract students who have a background in practica and internship experiences, as opposed to research and thesis requirements.

Individuals with a master's degree are not eligible to practice independently as psychologists in Maryland but can function as Psychology Associates under supervision or continue their studies toward eligibility as a Licensed Clinical Professional Counselor (LCPC). Psychology Associates provide services under the supervision of a licensed, doctoral-level psychologist, with permission from the Maryland Board of Examiners of Psychologists. The Licensed Clinical Professional Counselor (LCPC) must meet the criteria set forth by the Maryland Board of Examiners of Professional Counselors, including specific coursework as determined by the Board, 60 graduate credit hours, at least two years of supervised postgraduate experience, and successful completion of an exam administered by the Board. The LCPC is eligible to provide services independently in the State of Maryland.

ADMISSION CRITERIA

The student's completed application will be evaluated by the Graduate Admissions Committee in Psychology, and a written decision will be forwarded to the student.

Applicants for the M.A. and M.S. in Psychology should have a strong undergraduate academic background in psychology. Students must have a bachelor's degree in psychology or another field.

If the bachelor's degree is in a field other than psychology, the following minimum coursework must have been completed: Introductory Psychology, Abnormal Psychology, and at least one course relating to the experimental or statistical area, such as Experimental Psychology, Research Methods, Psychological Statistics, or Tests and Measurement.

The applicant's bachelor's degree must be from an accredited college or university with a minimum overall grade point average of 3.000 and a grade point average of 3.000 in psychology courses. All applicants to the master's programs are required to submit Graduate Record Examination (GRE) General Test scores. There are no minimum required GRE scores; however, verbal and quantitative scores above 400 for each section are recommended for the M.S. applicant and above 500 for each section are recommended for the M.A. applicant.

The following materials are required for application to the M.A. or M.S. program:

- Completed application form with required application fee;
- Three letters of recommendation;
- Personal essay;
- Graduate Record Exam (GRE) General Test scores (Psychology Subject Test not required);
- Official transcripts from all colleges and universities attended.

All application materials must be received by the application deadline listed for the semester the student is seeking admission in order to be considered. Applications to the M.A. program are considered for fall admission only. Applications to the M.S. program are considered for fall, spring, or summer admission.

Application Deadlines

M.A. Program

Fall Semester (only) March 15

M.S. Program

Summer Sessions April 15*

Fall Semester April 15*

Spring Semester November 15*

* Priority Deadline: Applications received by the priority deadline are reviewed for the upcoming term; applicants after the priority deadline will be reviewed on a space-available basis.

PREREQUISITES

All students must demonstrate competency in the content areas of general psychology. Students whose bachelor's degree is in a field other than psychology must have completed coursework in the following areas: Introductory Psychology, Abnormal Psychology, and at least one course relating to the experimental or statistical area, such as Experimental Psychology, Research Methods, Psychological Statistics, or Tests and Measurement. Students may be exempt from prerequisite courses if they obtain a score of 550 or better on the GRE Psychology Subject Test.

PROGRAM REQUIREMENTS

Students who are accepted for admission to the master's program must attend in-person orientation and registration sessions prior to the semester in which they first enroll. All new students receive a Student Handbook describing program requirements and departmental policies.

The M.A. in Clinical Psychology and the M.A. in Counseling Psychology require 36 graduate credits. The M.S. in Counseling Psychology and the M.S. in Clinical Psychology require 45 graduate credits.

Students may enroll as full- or part-time students. Full-time students complete nine credits per semester (six credits for Summer), while part-time students complete six or less credits per semester.

The practice and professions of Clinical and Counseling Psychology are dynamic, evolving, and ever changing. The body of scientific knowledge on

which they are based continues to grow regularly. The skills and techniques which they utilize are constantly being refined. As our understanding grows, the profession itself changes.

As human service professionals, it is important that Loyola graduates use only the most up-to-date knowledge and skills in clinical and counseling psychology. For these reasons, master's students must complete all requirements for their particular program within six years, including courses, the M.A. thesis, M.S. externships, and comprehensive exams. Additionally, it is expected that graduates will maintain and update their knowledge and skills through on-going professional development and continuing education activities.

ADVANCEMENT TO CANDIDACY EXAM

All students admitted will be placed on a probationary status pending the successful completion of the first 12 graduate credits and the Advancement to Candidacy Examination.

Prior to or during the semester that students complete their twelfth graduate credit, they must take the Advancement to Candidacy Exam. This exam has a multiple choice format covering all areas of general psychology and is given three times a year. The results of this examination are used by the student's adviser for further course planning, which may necessitate remedial work in areas of academic weakness. Students may not be enrolled in further graduate courses until they have passed this exam, even if they take the exam prior to completion of 12 credits.

Students are exempt from taking the Advancement to Candidacy Exam if they obtain a score of 550 or better on the Graduate Record Examination (GRE) Psychology Subject Test. Students are required to notify their advisers of exemption from taking the exam.

MASTER'S COMPREHENSIVE EXAMINATION

After completion of 27 graduate credits (M.A. students) or 36 graduate credits (M.S. students) with a *B* (3.000) average or better, students may apply to take the Comprehensive Examination. Material from all required courses will be included on the exam; students are not permitted to take

the exam prior to completion of all required courses for their degree.

The examination will be given three times a year. Students must complete an Application for Comprehensive Examination, available in the Psychology Department. The dates for the examination, as well as the deadline for application, are listed in the Graduate Course Schedule each semester. The examination consists of four sections given over a two-day period. Exam scoring may vary according to the particular concentration. Students are required to pass the exam within the six year time limit allowed to complete the degree.

EXTERNSHIPS

The externship experience is an opportunity for students to apply concepts developed in academic coursework. Coordinated programs between the department and a variety of community resources have been established to fulfill student externship requirements and needs. The externship allows students to gain practical training and experience under the supervision of a mental health worker or clinician in a community-based facility, hospital or other mental health setting.

The Department maintains an extensive list of approved externship sites which meet the training requirements of the program. Students work with the director of field education and their adviser to select sites which are appropriate to their experiences and desired goals. All approved sites must be located within the state of Maryland or within close proximity to Maryland, including Washington, D.C., northern Virginia, or southern Pennsylvania.

The externship is required for M.S. students and may serve as an elective for M.A. students. M.S. students may not register for externships until completion of Practicum in Counseling (PY 730) or Practicum in Testing (PY 720). Transfer credits for practicum or externships are not accepted. Students may complete a maximum of three externships for credit toward their degree requirements. The externship hours may count toward some of the experience hours for LCPC.

MASTER'S THESIS

The M.A. Thesis is a scientific investigation of publishable quality which demonstrates the scholarship, logical consistency, creativity, and comprehensiveness which are associated with genuine research. The idea for the master's thesis is initiated and developed by the student while enrolled in Research Methods I and II (PY 650, PY 651). All M.A. students must enroll in Research Methods I and II during the Fall and Spring Semesters of their first year. After the first year, students have an opportunity to use one of their electives to enroll in a research externship at an off-site facility. The research externship is a 10–12 hour per week, applied research experience, and it enhances the students' doctoral application portfolios and job seeking opportunities.

Each student is responsible for seeking out a member of the faculty to serve as major reader for the thesis, as well as two other faculty members who will serve as readers on the Thesis Committee. A list of faculty members who serve as major readers is available from the Psychology Department.

Registration for Thesis Guidance

Thesis Guidance I, II, III, and IV (PY 761, PY 762, PY 763, PY 764) are taken concurrently with the three required research courses (PY 650, PY 651, PY 791). A fee is charged each semester. During this time, the student works closely with his or her major reader in the development of the thesis proposal, the collection and analysis of data, and preparation of the final thesis.

It is anticipated that the major reader will work closely with the student during collection and analysis of data, and the student will incorporate the professor's suggestions in the completed thesis. Three copies of the final master's thesis, each signed by the committee members, are submitted to the department chair and the Dean of the College of Arts and Sciences for final approval. Copies of the guidelines for thesis procedures and style are available from the Department upon request. **The final copies of the completed thesis must be submitted at least three weeks before the end of the semester that a student expects to graduate.**

GRADING AND ACADEMIC DISMISSAL

Students who receive a grade of less than *B*- (2.670) in any course will not be permitted to count this course for their degree. Students receiving a grade of less than *B*- in a **required** course must meet with the instructor of that course to determine the requirements which must be met in order to successfully complete the course. The requirements may include all or part of the original course requirements, additional or substitute remedial work, or substitution of an equivalent course for the required course. Students may be required to re-enroll in the original course or an equivalent course. Both the original and retake grades remain on the student's transcript and calculate into the cumulative quality point average.

Students receiving a grade of less than *B*- in an **elective** course must meet with the instructor of that course to determine if they should retake the same course or substitute an alternative elective. In either case, the original course grade remains on the student's transcript and is calculated into the cumulative quality point average.

Students who receive an *F* (0.000) in any course or two grades below *B*- (2.670) in the same or different courses will be dismissed from the program. Academic dismissal may also result from excessive course withdrawal, academic dishonesty, or other behavior seen by the department as unethical or unprofessional. Students must have a final QPA of 3.000 or above in order to be awarded a degree.

If the Psychology Department perceives that a student is not progressing satisfactorily in the development of the competencies and behaviors required at his or her level of professional development, a Professional Assessment Review (PAR) will be conducted for the purpose of remediation. Further evidence of unsatisfactory progress will result in dismissal.

DEGREE PROGRAMS**M.A. in Clinical Psychology**

Excellent preparation for students planning to pursue a doctorate. The degree consists of 36 graduate credit hours, Advancement to Candidacy and Comprehensive Examinations, and a master's thesis. The following courses are required:

- PY 601 Psychodiagnostics I
- PY 602 Psychodiagnostics II
- PY 615 Advanced Abnormal Psychology
- PY 620 Theories of Counseling and Psychotherapy
- PY 621 Principles and Practices of Psychotherapy
- PY 650 Research Methods in Psychology I
- PY 651 Research Methods in Psychology II
- PY 705 Ethics and Legal Issues in Psychology
- PY 761 Thesis Guidance I (0 credits)
- PY 762 Thesis Guidance II (0 credits)
- PY 763 Thesis Guidance III (0 credits)
- PY 764 Thesis Guidance IV (0 credits)
- PY 791 SPSS-(Computer) Analysis of Psychological Data

Elective
Elective
Elective

M.A. in Counseling Psychology

Excellent preparation for students planning to pursue a doctorate. The degree consists of 36 graduate credit hours, Advancement to Candidacy and Comprehensive Examinations, and a master's thesis. The following courses are required:

- PY 615 Advanced Abnormal Psychology
- PY 620 Theories of Counseling and Psychotherapy
- PY 621 Principles and Practices of Psychotherapy
- PY 635 Use of Tests in Counseling
- PY 650 Research Methods in Psychology I
- PY 651 Research Methods in Psychology II
- PY 705 Ethics and Legal Issues in Psychology
- PY 730 Practicum in Counseling Psychology
- PY 755 M.A. Thesis Seminar
- PY 761 Thesis Guidance I (0 credits)
- PY 762 Thesis Guidance II (0 credits)
- PY 763 Thesis Guidance III (0 credits)
- PY 764 Thesis Guidance IV (0 credits)

- PY 791 SPSS-(Computer) Analysis of Psychological Data

Elective
Elective

M.S. in Clinical Psychology

Prepares clinically trained people for positions in public and private settings. Additionally, the program may provide for preparation for certification or licensure as a mental health counselor or entrance into a Psy.D. program.

The degree consists of 45 graduate credit hours, Advancement to Candidacy and Comprehensive Examinations, and a supervised externship. The following courses are required:

- PY 601 Psychodiagnostics I
 - PY 602 Psychodiagnostics II
 - PY 615 Advanced Abnormal Psychology
 - PY 620 Theories of Counseling and Psychotherapy
 - PY 621 Principles and Practices of Psychotherapy
 - PY 702 Externship in Clinical Psychology I
 - PY 703 Externship in Clinical Psychology II
 - PY 705 Ethics and Legal Issues in Psychology
 - PY 720 Practicum in Testing
 - PY 745 Research Seminar
- Elective
Elective
Elective
Elective
Elective

M.S. in Counseling Psychology

Prepares counselors and therapists at the sub-doctoral level for counseling positions in public or private settings. The program may also provide for preparation for certification or licensure as a mental health counselor.

The degree consists of 45 graduate credit hours, Advancement to Candidacy and Comprehensive Examinations, and a supervised externship. The following courses are required:

- PY 615 Advanced Abnormal Psychology
- PY 620 Theories of Counseling and Psychotherapy
- PY 621 Principles and Practices of Psychotherapy

- PY 622 Advanced Techniques of Counseling and Psychotherapy
 PY 635 Use of Tests in Counseling
 PY 705 Ethics and Legal Issues in Psychology
 PY 730 Practicum in Counseling Psychology
 PY 731 Externship in Counseling Psychology I
 PY 732 Externship in Counseling Psychology II
 PY 745 Research Seminar
 Elective
 Elective
 Elective
 Elective
 Elective

Clinical/Counseling Options

The department offers a nine (9) hour clinical option for qualified counseling students and a nine (9) hour counseling option for qualified clinical students. These options must be taken in **addition** to the hours for the degree and may not serve in lieu of other elective courses.

After completing 21 hours in their regular concentration, students must apply in writing to be considered for these options. Application does not guarantee enrollment, as currently matriculating students in clinical or counseling psychology are given first priority for enrollment in the required courses for their degree program.

Students interested in clinical/counseling options may also consider applying for the Certificate of Advanced Study (C.A.S.) after completion of master's degree requirements.

Clinical Option (9 credits)

- PY 601 Psychodiagnostics I
 PY 602 Psychodiagnostics II
 Psychodiagnostic Elective

Counseling Option (9 credits)

- PY 622 Advanced Techniques of Counseling and Psychotherapy
 PY 730 Practicum in Counseling Psychology
 Elective (Counseling Externship, additional counseling techniques course)

Clinical students desiring an externship in counseling must complete the counseling option prior to placement.

CERTIFICATE OF ADVANCED STUDY (C.A.S.)

The C.A.S. program provides those students who possess a master's degree in psychology or an allied profession with an opportunity to advance their knowledge and skills in the area of clinical and counseling psychology. Students will take advantage of the opportunity to "tailor" courses to meet specialized job and certification requirements. Students will meet with an academic adviser to arrange for a sequencing of courses to meet their needs. In the past, students have pursued the program to meet credentialing requirements in the areas of family treatment, clinical mental health counselor, school psychology, etc. Current course offerings include many of those which are required by the Maryland Board of Examiners of Professional Counselors to become a Licensed Clinical Professional Counselor (LCPC).

The certificate consists of 30 graduate credits beyond the master's degree. The student is not required to take Comprehensive Examinations, the Advancement to Candidacy Exam, or write a thesis. C.A.S. applicants do not need to submit Graduate Record Exam (GRE) scores.

MASTER'S PLUS (LCPC)

Students who possess master's degree from Loyola College or another accredited institution may take the specific courses required by the Maryland Board of Examiners of Professional Counselors to become a Licensed Clinical Professional Counselor (LCPC). Students must be officially admitted to the program before they will be allowed to register for courses. Advising and course approval are provided by departmental faculty and the director of master's education and field education.

DOCTOR OF PSYCHOLOGY IN CLINICAL PSYCHOLOGY (PSY.D.)

MISSION

The Psychology Department is committed to the professional training and development of doctoral level psychologists in the Ignatian tradition of *cura personalis*, which challenges students to serve and lead others in service.

The goals and objectives of the Psy.D. program exist within the larger context of professional psychology, the principles of the American Psychological Association, and the mission of Loyola College. The development of these goals and objectives was guided by the six competencies adopted by the National Council of Schools and Programs in Professional Psychology (NCSPP; 1986–87 Mission Bay Conference), the Jesuit tradition of leadership and service, and the department's own mission and philosophy of training. The NCSPP competencies of relationship, assessment, and intervention form the basis for the first three goals. The NCSPP competency of research, the "scholar" dimension of the "scholar-professional" model of training, and the department's own commitment to scholarly inquiry across all activities in professional psychology form the basis for the fourth goal. Finally, the NCSPP competencies of management/education and consultation/supervision guided the development of the last goal. This goal is also based on the department's commitment to training students to adapt to the diverse and changing needs in professional psychology, its recognition that psychologists will increasingly function outside of their traditional roles, and its model of training in which students are encouraged to develop unique professional identities.

The program's philosophy, educational model, and curriculum plan are consistent with the mission of Loyola College and the Graduate Division. They are also consistent with the following principles of the discipline:

- Psychological practice is based on the science of psychology which, in turn, is influenced by the practice of professional psychology.

- Training is sequential, cumulative, graded in complexity, and designed to prepare students for further organized training.

Philosophy of Training

The members of the Psychology Department are committed to providing students with a strong background in clinical psychology and to training students to understand and adapt to the diverse and changing needs in professional psychology. Training will combine a foundation of knowledge of the field with the skills necessary for a systematic approach to answering questions, resolving problems, and enhancing the development of individuals and groups, as well as promotion of the values and attitudes consistent with the practice of professional psychology. This training is built upon excellence in didactic and experiential methods of teaching and supportive mentoring relationships.

Model of Professional Training

The Psy.D. program endorses the "scholar-professional model" which is designed to train autonomous practitioners of professional psychology who will deliver mental health services and lead others in service to the general public in diverse settings. In addition, the program is designed to train psychologists who will critically evaluate and use the available literature in the field and who will use a scholarly approach, often in collaboration with others, to solving problems and answering questions at the local level.

The Psy.D. program is committed to a professional development model of training in which each student is encouraged to develop a unique professional identity consistent with the individual's own values, style, and philosophy. Within this framework, the program promotes the integration of theoretical and empirical literature in all types of professional decision-making. Investigation of varying theoretical models, interaction with diverse role models within the profession, and supervised experience in a broad range of models are encouraged.

The program is committed to training students in a generalist model. As suggested in the philosophy of training, the faculty believe it is essential that all graduates possess a strong base in the foundations (i.e., both content and methods) of clinical

psychology regardless of the extent to which they choose to specialize within the field. To support that base, each student receives training in a minimum of two conceptual models. The majority of faculty members espouse either a psychodynamic or cognitive-behavioral model and, thus, most students receive training in these areas; however, the program is also able to provide training in other models such as family systems and interpersonal psychotherapies. All students receive training in empirically validated therapies. In addition, students are strongly encouraged to pursue training in a variety of clinical settings with populations who vary in age, ethnic and racial identity, sexual orientation, and socioeconomic status.

GOALS

The goals that specify the competencies expected of graduates of the Psy.D. program are as follows:

Goal 1

As service providers, colleagues, and leaders, students will form and maintain professional relationships with individuals with diverse identities and backgrounds (i.e., race, ethnicity, sexual identity, gender, age, socioeconomic status).

Goal 2

Students will competently use a variety of professional assessment strategies. Competent use of these strategies will include an understanding of their value, psychometric properties, and limitations, as well as an appreciation for the role of individual diversity in the assessment process.

Goal 3

Students will effectively use a variety of intervention strategies.

Goal 4

Students will employ a scholarly, scientific approach to generating knowledge, resolving problems, and enhancing the development of individuals and groups.

Goal 5

In response to the diverse and changing needs in professional psychology, students will effectively perform in emerging and/or nontraditional roles in clinical psychology.

ACCREDITATION

The Psy.D. program is accredited by the American Psychological Association (APA).

ADMISSION CRITERIA

Admission to the Psy.D. in Clinical Psychology will be limited to a highly select group of students who have a proven competency in psychology through a strong academic background. The successful applicant will have received either a bachelor's or master's degree from an accredited institution and obtained at least an overall 3.000 grade point average (out of 4.000) over the last two years of undergraduate study or an overall 3.200 (out of 4.000) grade point average at the graduate level of study.

Students who are accepted for the Psy.D. in Clinical Psychology and have only completed a bachelor's degree in psychology will be expected to complete four years of full-time study plus an additional full-time internship year. Students who have completed a master's degree in clinical psychology will be required to complete three full-time years of academic study plus an additional full-time internship year.

Applications are considered for fall admission only. The student's completed application will be reviewed and evaluated by the Doctoral Committee on Admissions, and a written decision will be forwarded to the student. The following materials are required for application to the Psy.D. program:

- Completed application form with required application fee;
- Three letters of recommendation;
- Personal essay;
- Current vitae;
- Graduate Record Exam (GRE) General Test scores;
- Official transcripts from all colleges and universities attended.

Other criteria to be considered include previous work and life experiences, and extracurricular activities.

All application materials must be received by the Office of Graduate Admissions by the deadline of **January 1** in order to be considered for admission. A select group of applicants will be invited for an in-person interview, from which candidates will be selected for admission. The Department will not offer any explanation to the student regarding the student's failure to be accepted for admission. Additionally, students will only be granted interviews for the program upon invitation from the Department. The in-person interview is required for admission.

PREREQUISITES

All applicants to the Psy.D. program must have a minimum of a bachelor's degree in psychology or another field. Applicants must have competence in the following areas of psychology: general psychology, social psychology, abnormal psychology, personality theory, statistics and/or research methods, tests and measurements, and learning theory or cognitive psychology. Students who apply with a bachelor's degree should have completed coursework in each of these areas, whether their degree is in Psychology or another field. Students entering the program with a master's degree may be eligible to begin the program at the second year of the curriculum, if they have completed graduate coursework that is equivalent to the required curriculum listed for the first year of the program.

The above mentioned prerequisite courses are not only essential for readiness for doctoral study, but it is important to note that an outcome goal of the program is to adequately prepare the student for success in passing the National Licensure Examination in Psychology. A solid preparation in the breadth of psychology is essential for assisting the student in meeting this goal.

CREDITS REQUIRED

The doctoral program requires the completion of 120 credits for those students entering the first year of the curriculum and 97 credits for those students entering the second year of the curriculum (with a master's degree in clinical psychology), including credits earned for coursework, field placements, professional supervision, and dissertation. Students are also required to complete a full-time internship in the fifth year of the pro-

gram. All requirements for the Psy.D. program, including the dissertation, must be completed within seven years of enrollment in the program.

STUDENT EVALUATION

The awarding of the doctoral degree requires successful completion of all required coursework, field placements, internship, and dissertation, as well as passing Comprehensive Exams.

Grades and Academic Dismissal

Students must complete the program with at least a 3.000 average. Students who receive a grade of less than *B-* (2.670) in any course will not be permitted to count this course for their degree. Students receiving a grade of less than *B-* in a **required** course must meet with the instructor of that course to determine the requirements which must be met in order to successfully complete the course. The requirements may include all or part of the original course requirements, additional or substitute remedial work, or substitution of an equivalent course for the required course. Students may be required to re-enroll in the original course or an equivalent course. Both the original and retake grades remain on the student's transcript and calculate into the cumulative quality point average.

Students receiving a grade of less than *B-* in an **elective** course must meet with the instructor of that course to determine if they should retake the same course or substitute an alternative elective. In either case, the original course grade remains on the student's transcript and is calculated into the cumulative quality point average.

Students who receive an *F* (0.000) in any course or two grades below *B-* (2.670) in the same or different courses will be dismissed from the program. Academic dismissal may also result from excessive course withdrawal, academic dishonesty, or other behavior seen by the department as unethical or unprofessional. Students must have a final QPA of 3.000 or above in order to be awarded a degree.

Professional Assessment Review

Each semester, the Psychology Department conducts a Professional Assessment Review (PAR) for all Psy.D. students, evaluating their professional

development in specific domains. Students also engage in self-evaluation. Students then meet with their advisers to discuss the results of the PAR. If significant concerns are raised about a student's professional development, the department chair may appoint a Professional Assessment Review Committee to meet with the student to discuss those concerns and provide recommendations for remediation.

Comprehensive Examinations

Two comprehensive examinations are required and in order to remain in the program, students must pass them within three attempts. The Written Comprehensive Exam assesses knowledge and integration of material relevant to clinical psychology. The Clinical Competency Exam assesses case conceptualization and oral presentation skills.

Dissertation

The doctoral dissertation project requires the student to demonstrate a sound understanding of an area of professional interest and provide a scholarly contribution which may be of an applied nature. It is expected that the dissertation project be of publishable quality and that an extensive review of theory and previous research serve as a foundation. An oral presentation of the proposal and an oral presentation and defense of the finished project are required. The doctoral dissertation may consist of:

- The implementation and evaluation of a clinical intervention or training program, or evaluation of a pre-existing program;
- A needs assessment, followed by a model for implementation;
- Empirical or theoretical analysis of aspects of a model of psychopathology;
- The development and/or evaluation of an assessment instrument;
- The implementation and evaluation of an intervention technique using single case design methodology.

Case studies may be used in conjunction with one of these approved categories of dissertation research, but may not stand alone as a project.

CLINICAL PLACEMENT AND INTERNSHIP

The clinical placement and internship experience are integral components of the student's academic experience. Through these supervised experiences, students are afforded an opportunity to apply skills and techniques acquired from assessment and intervention-oriented course material. A minimum of 1,410 field placement hours are completed in the first four years of the program; students who enter the program in the second year of the curriculum complete a minimum of 1,260 hours in their second through fourth years. In either case, one-half of the total placement hours will involve direct client contact/intervention. Students are supervised on-site by licensed psychologists. Field placement facilities have been carefully chosen by the Department for the quality of their training experiences and supervision. Students also participate in group supervision on campus.

The fifth year of the curriculum is a full-time internship, for which a student applies during the fourth year. The internship year may or may not be spent in the local area.

COLLOQUIUM

Each semester, a time period is designated for the scheduling of presentations by community professionals, faculty, or other students on varying topics relevant to professional psychology. Students also attend group meetings each semester with the director of doctoral education or other faculty to discuss their progress and needs in the program.

PROGRAM OF STUDY

Students entering the program with a master's degree in psychology may be eligible to begin their studies at the second year of the curriculum.

The following course schedule applies to those students entering the program Fall 2002 or later. Students entering the program prior to this time should refer to the curriculum schedule for their particular class.

First Year*Fall Term*

- PY 601 Psychodiagnostics I
- PY 615 Advanced Abnormal Psychology
- PY 620 Theories of Counseling and Psychotherapy
- PY 832 Research Methods in Clinical Psychology I
- PY 912 Colloquium (0 credits)
- PY 918 Professional Supervision and Development (2 credits)

Spring Term

- PY 602 Psychodiagnostics II
- PY 621 Principles and Practices of Psychotherapy
- PY 702 Externship in Clinical Psychology I
- PY 833 Research Methods in Clinical Psychology II
- PY 912 Colloquium (0 credits)
- PY 918 Professional Supervision and Development (2 credits)

Second Year*Fall Term*

- PY 800 Professional, Legal, and Ethical Issues
- PY 801 Principles of Objective Personality and Suicide Assessment
- PY 810 Psychological Measurement
- PY 814 Biopsychology *or*
- PY 832 Research Methods in Clinical Psychology I
- PY 912 Colloquium (0 credits)
- PY 918 Professional Supervision and Development (2 credits)
- PY 920 Clinical Placement I (2 credits)

Spring Term

- PY 802 Principles and Methods of Assessment
- PY 815 Psychopathology Seminar
- PY 818 Psychopharmacology *or*
- PY 833 Research Methods in Clinical Psychology II
- PY 845 Models of Psychotherapy #1
- PY 912 Colloquium (0 credits)
- PY 918 Professional Supervision and Development (2 credits)
- PY 920 Clinical Placement I (2 credits)

Third Year*Fall Term*

- PY 820 Cognitive and Learning Theory
- PY 870 Diversity Seminar
- PY 912 Colloquium (0 credits)
- PY 918 Professional Supervision and Development (2 credits)
- PY 921 Clinical Placement II
- PY Professional Development Elective

Spring Term

- PY 813 Social and Cultural Bases of Behavior
- PY 845 Models of Psychotherapy #2
- PY 886 Advanced Topics in Professional Psychology #1
- PY 912 Colloquium (0 credits)
- PY 918 Professional Supervision and Development (2 credits)
- PY 921 Clinical Placement II (3 credits)

Fourth Year*Fall Term*

- PY 814 Biopsychology
- PY 816 Life Span Development
- PY 819 Historical and Philosophical Bases of Psychology
- PY 886 Advanced Topics in Professional Psychology #2
- PY 902 Clinical Dissertation I (3 credits)
- PY 912 Colloquium (0 credits)
- PY 918 Professional Supervision and Development (2 credits)
- PY 922 Clinical Placement III (3 credits)

Spring Term

- PY 818 Psychopharmacology
- PY 886 Advanced Topics in Professional Psychology #3
- PY 886 Advanced Topics in Professional Psychology #4
- PY 903 Clinical Dissertation II
- PY 912 Colloquium (0 credits)
- PY 918 Professional Supervision and Development (2 credits)
- PY 922 Clinical Placement III (3 credits)

Fifth Year*Fall Term*

PY 950 Clinical Internship I (0 credits)

Spring Term

PY 951 Clinical Internship II (0 credits)

LAB FACILITIES

Departmental facilities are available for research and clinical training experience. The Psychology Department also maintains a behavioral medicine laboratory for research and training. Additionally, computers are available for student research, with helpful tools such as SPSS, PsycINFO, and Internet access.

ASSISTANTSHIPS

The Psychology Department has a limited number of teaching and/or research assistantships available for qualified graduate students. These assistantships typically include partial tuition remission and a stipend. Psychology assistantships are usually not available to students during their first semester of enrollment in the master's program or the first year of the Psy.D. curriculum. Students who are interested in such opportunities after their first semester may complete an application, available from the department secretary.

Students who are interested in assistantships or employment in other departments on campus may contact the Human Resources Office for further information.

COURSE DESCRIPTIONS

Courses at the 600- and 700-level are open to all graduate students meeting the specified prerequisites; 800- and 900-level courses are restricted to Psy.D. students.

PY 601 Psychodiagnostics I (3.00 cr.)

A study of the rationale, theory, and standardization of individual cognitive tests with emphasis on the WAIS-III, WISC-III, Stanford Binet-IV, K-ABC, Bender Gestalt, and clinical interview. Examines the diagnostic features of the tests through the use of actual administration and interpretation of tests along with report writing. Ethical assessment and attention to diversity issues in accor-

dance with the 1992 version of the APA Ethics Code are also addressed. *Restricted to M.A./M.S./Psy.D. students in clinical psychology. A lab fee is charged.*

PY 602 Psychodiagnostics II (3.00 cr.)

Prerequisite: PY 601. Students are instructed in the most recent developments and current status of the assessment of personality using projective techniques. The focus is on the theoretical basis, administration, scoring, and interpretation of the Rorschach (Exner System) and the Thematic Apperception Test. Some consideration is also given to other projective techniques. Where appropriate, professional ethics related to test development and use are discussed. Efforts will be made to discuss the current literature and personal experiences in assessment of diverse populations. *A lab fee is charged.*

PY 605 Psychopathology of Childhood (3.00 cr.)

Familiarizes students with the different diagnoses, etiologies, and treatments of major forms of child psychopathology. Uses the DSM-IV classification system and emphasizes the role of both developmental issues and current research findings in understanding psychiatric disorders of childhood and adolescence.

PY 607 Assessment: Diagnostic Clinical Methods with Children (3.00 cr.)

Prerequisite: PY 602. Provides students with an understanding of the psychometric properties and applications of commonly used measures of assessment with children and adolescents. Students are required to administer, interpret, and complete written reports with child testing cases. An emphasis is placed on the Bayley-II, WPPSI-R, WIAT, MMPI-A, VMI, and CBCL. The manner in which projective measures need to be adapted to meet the developmental needs of this population is also discussed. *Typically offered biannually. A lab fee is charged.*

PY 608 Anxiety Disorders: Etiology, Diagnosis, and Treatment (3.00 cr.)

In-depth instruction in the current cognitive-behavioral theory, empirical data, assessment, and treatment of DSM-IV anxiety disorders.

PY 613 Advanced Personality Theory and Research (3.00 cr.)

An in-depth survey of selected personality theories and current models of personality research. *Typically offered semiannually.*

PY 614 Human Sexuality (3.00 cr.)

Designed to increase students' clinical sensitivity to issues of human sexuality and their impact upon the psychological functioning of clients. An in-depth study of sexual development, attitudes, and behaviors, with special attention paid to treatment issues associated with sexual orientation, victimization, and AIDS.

PY 615 Advanced Abnormal Psychology (3.00 cr.)

Familiarizes students with the different diagnoses, etiologies, and treatments of major forms of psychopathology. Uses the DSM-IV classification system and emphasizes the role of current research findings in understanding psychiatric disorders.

PY 620 Theories of Counseling and Psychotherapy (3.00 cr.)

Familiarizes students with basic concepts in the theories of counseling and provides a review of both selected theories and current research relevant to those theories. The theories presented are critically evaluated, contrasted, and applied in understanding real-life treatment situations.

PY 621 Principles and Practices of Psychotherapy (3.00 cr.)

Prerequisite: PY 620. Focuses on the effective use of counseling techniques and strategies, employing both didactic and experiential learning approaches. Familiarizes students with basic helping skills, specific models of intervention, treatment planning, and establishment and maintenance of the therapeutic relationship. (*Fall/Spring*)

PY 622 Advanced Techniques of Counseling and Psychotherapy (3.00 cr.)

Prerequisite: PY 621. An in-depth survey of a specific counseling or psychotherapeutic modality for the student who wishes to develop further skills and learn the latest research and techniques in a specialized area. Each semester focuses on a different counseling or psychotherapeutic approach, for example, couples and family, gestalt therapy, behavioral therapy, multicultural therapy, cognitive psychotherapy, crisis intervention, and others.

PY 635 Use of Tests in Counseling (3.00 cr.)

Acquaints counselors with a variety of tests used by professionals. Provides a practicum experience focusing on those techniques often used by counselors in the counseling process. *A lab fee is charged.*

PY 639 Alcoholism and Other Drug Dependence: Diagnosis, Treatment, and Prevention (3.00 cr.)

Provides advanced information on the most recent research, developments, and knowledge on alcoholism and other drug dependence. Students learn the latest developments in prevention techniques, procedures in diagnosis in accordance with DSM-IV, and treatment methods.

PY 642 The Nature and Treatment of the Stress Response (3.00 cr.)

Examines the nature of the stress response, its implications for disease, and its treatment via non-chemical means. Examines the role of biofeedback and various relaxation therapies and the most recent research on these treatments. Assists students in developing entry-level skills in the use of at least two relaxation therapies—for personal use as well as clinical implementation.

PY 643 Introduction of Clinical Behavioral Medicine: Electromyograph Biofeedback (EMG) (3.00 cr.)

Introduces the historical, physiological, psychophysiological, and basic electronic concepts of electromyographic (EMG) biofeedback. Also discusses practical and professional issues involved in doing applied EMG biofeedback. Approximately one-third of the course is spent in the lab learning and practicing technical skills using EMG equipment. *A lab fee is charged.*

PY 644 Introduction of Clinical Behavioral Medicine: Cardiovascular Behavioral Medicine (3.00 cr.)

Introduces the knowledge and skills relevant to the practice of cardiovascular behavioral medicine. Topics include thermal biofeedback, modification of Type A behavior, and cardiovascular dynamics. *A lab fee is charged.*

PY 645 Introduction to Health Psychology (3.00 cr.)

Introduces the field of health psychology. Discusses the nature and domain of health psychology in addition to current clinical and research issues relevant to the field. Specific topics include psychobiological and behavioral factors in human disease, behavioral medicine, adherence, the interdisciplinary health care team, health assessment, and current training and employment opportunities.

PY 650 Research Methods in Psychology I (3.00 cr.)

Corequisite: PY 761. Covers the goals and limitations of behavioral research; the process of formulating research questions and hypotheses; the concepts of variance

and variables; the primary methods of describing data; the process of measurement in psychology; sampling; and the goals and techniques of inferential statistics to test hypotheses. Examines current trends in research methodology and statistics. Prepares students to complete the introduction section of a thesis proposal containing the literature review, statement of the problem, and hypotheses.

PY 651 Research Methods in Psychology II (3.00 cr.)

Prerequisite: PY 650. *Corequisite:* PY 762. A continuation of PY 650. Covers the concept of power and power analysis; the similarities and differences between the correlational, experimental, quasi-experimental, and single-subject design research strategies; ANOVA; simple and multiple regression statistical analyses; internal and external validity; and the differences between and uses of a priori and post hoc tests. Examines current trends in research methodology and statistics. Prepares students to complete the methods section of a thesis proposal.

PY 657 Lifestyle and Career Development (3.00 cr.)

A review of vocational/career/lifestyle theories and models; life span development stages and career identity; vocational/career assessments; career decision-making models; and special topics including cultural influences, organizational settings, and boundaries between mental health and vocational counseling. *A lab fee is charged.*

PY 658 Applied Techniques in Psychology and Law (3.00 cr.)

Focuses on applied clinical aspects of forensic psychology and the most recent research and techniques in this field. Emphasizes the role of the psychologist as expert witness (evaluation process, identification of legal standard, preparation for court, testifying, cross-examination). Topics include competence to stand trial; criminal case disposition and sentencing; death penalty phase assessments; civil commitment; treatment and release issues; and child custody. *Typically offered annually.*

PY 664 Advanced Developmental Psychology: Life Span (3.00 cr.)

An exploration of typical human development, including infancy, childhood, adolescence, adulthood, and later adulthood. Social, emotional, and cognitive development are emphasized.

PY 665 Advanced Developmental Psychology: Child and Adolescent (3.00 cr.)

Provides an overview of the major topical areas in child and adolescent psychology. Particular emphasis is placed

on understanding cognitive and socio-emotional development using the most current research and theoretical perspectives. Students are asked to apply an understanding of developmental issues in their clinical conceptualizations. *Typically offered biannually.*

PY 666 Advanced Developmental Psychology: Adult and Aging (3.00 cr.)

An exploration of typical and atypical human development from late adolescence through late adulthood. Emphasis on social, emotional, and cognitive development. Students acquire a developmental framework for understanding clients' behaviors and difficulties and independently research a topic of particular personal interest.

PY 667 Psychology and Spirituality (3.00 cr.)

An investigation of the role of spirituality and faith in mental health in terms of how spiritual attitudes and activities contribute to psychological and physical well-being, serve as resources in the therapeutic process, and moderate the effects of stress. Addresses spirituality in traditional and nontraditional terms. Relevant books and articles by authors such as S. Peck, A. Maslow, P. Tillich, C. Jung, G. May, and R. Wicks will be read and discussed in a seminar format. Three short reflection papers and one long term paper are required.

PY 670 Issues in College Student Mental Health (3.00 cr.)

Students develop an understanding of the key issues in the area of college student mental health. Topics include theories of college student development; mental health issues that affect college students; treatment approaches with college students; and future directions in college student mental health.

PY 700 Research Externship (3.00 cr.)

Prerequisite: PY 650, PY 651. *Written permission of the director of field education is required.* By arrangement with a selected research setting, students engage in a supervised research experience. *An externship fee is charged.*

PY 702 Externship in Clinical Psychology I (3.00 cr.)

Prerequisite: PY 602, 18 graduate hours. *Written permission of the director of field education is required. M.S. students must have completed PY 720.* By special arrangement with an individual instructor and a selected mental health agency, students engage in a supervised clinical experience. Provides the student with an opportunity to develop and apply clinical diagnostic skills in a practical

setting. On-campus group meetings are also included. *An externship fee is charged.*

PY 703 Externship in Clinical Psychology II (3.00 cr.)

Prerequisite: PY 702. *Written permission of the director of field education is required.* A continuation of PY 702. On-campus group meetings are also included. *An externship fee is charged.*

PY 704 Special Topics in Clinical Psychology (1–3.00 cr.)

An opportunity for students to work on an individual library or experimental project. It is the student's responsibility to secure permission, prior to registration, from the faculty member who will direct the project.

PY 705 Ethics and Legal Issues in Psychology (3.00 cr.)

A seminar covering professional ethics in psychology and legal issues as they relate to the profession of psychology. Students learn a model of ethical decision-making; research and write a term paper on one topic relevant to legal and ethics issues in psychology; and learn to effectively use the 1992 versions of the APA Ethics Code and relevant State law.

PY 720 Practicum in Testing (3.00 cr.)

Prerequisite: PY 601, PY 602. This practicum experience requires students to demonstrate competency in performing psychological evaluations with adults and children using the current versions of psychological tests.

PY 730 Practicum in Counseling Psychology (3.00 cr.)

Prerequisite: 18 graduate hours in psychology, including PY 620 and PY 621. Practicum in counseling requires students to demonstrate competencies acquired in the prerequisite courses in a simulated counseling environment. Uses a multimedia approach as a means of enabling students to analyze, modify, and synthesize their own counseling style. Students must demonstrate a knowledge of and an ability to integrate into their counseling the most recent research and knowledge in the field of counseling.

PY 731 Externship in Counseling Psychology I (3.00 cr.)

Prerequisite: PY 730. *Written permission of the director of field education is required.* By special arrangement with an individual and a selected mental health agency, students engage in a supervised counseling or therapy experience. Provides students with an opportunity to develop and apply counseling skills in a practical setting. On-campus group meetings are also included. *An externship fee is charged.*

PY 732 Externship in Counseling Psychology II (3.00 cr.)

Prerequisite: PY 731. *Written permission of the director of field education is required.* A continuation of PY 731. On-campus group meetings are also included. *An externship fee is charged.*

PY 733 Externship: Continuation (3.00 cr.)

Prerequisite: PY 700 or PY 702 or PY 731. For students who wish to receive more than three credits for the externship. *An externship fee is charged.*

PY 740 Special Topics in Counseling Psychology (3.00 cr.)

An opportunity for students to work on an individual library or experimental project. It is the student's responsibility to secure permission, prior to registration, from the faculty member who will direct the project.

PY 745 Research Seminar (3.00 cr.)

Examines, in a seminar format, a number of current research topics in clinical and counseling psychology, with the objective of the student becoming a consumer and critical reader of journal articles.

PY 750 Consultation Skills for Psychologists (3.00 cr.)

This course is intended as a presentation to some of the consulting roles performed by psychologists. Based on the experience of the professor, the primary clinical areas of focus are health care, business, and legal areas. The emphasis is on the integration of psychological principles into these various consulting settings. These opportunities required both traditional psychological skills and new aptitudes (i.e., business development, consultations skills). Additionally, creativity and a sense of adventure are requisites in these rapidly developing areas of psychology.

PY 757 Thesis Guidance (0.00 cr.)

Prerequisite: PY 755. *For students who completed Research Methods I (PY 650) prior to Fall 1996.* After completion of Thesis Seminar (PY 755), students must enroll in this course during all subsequent semesters while working on their thesis. Students must also complete a Thesis Guidance Approval Form, to be signed by the major reader. *A thesis guidance fee is charged for each semester.*

PY 758 Comprehensive Examination Guidance (0.00 cr.)

After a second failure of the Comprehensive Examination, a student must register for this course each semester

(excluding summer term) until the exam is passed. *An exam guidance fee is charged.*

PY 760 Special Topics in General Psychology (3.00 cr.)

An opportunity for students to work on an individual library or experimental project. It is the student's responsibility to secure permission, prior to registration, from the faculty member directing the project.

PY 761 Thesis Guidance I (0.00 cr.)

Corequisite: PY 650. Students identify a faculty member who has agreed to serve as their major reader and begin working on their thesis project. *To be taken during the first year, Fall Semester of the Master of Arts program. A thesis guidance fee is charged.*

PY 762 Thesis Guidance II (0.00 cr.)

Prerequisite: PY 761. Corequisite: PY 651. Students work with their major readers to develop the method and data analysis chapters of their thesis proposals. *To be taken during the first year, Spring Semester of the Master of Arts program. A thesis guidance fee is charged.*

PY 763 Thesis Guidance III (0.00 cr.)

Prerequisite: PY 761, PY 762. Students work with their major readers toward completion of their thesis proposals and/or data collection and the final draft of their thesis. *A thesis guidance fee is charged.*

PY 764 Thesis Guidance IV (0.00 cr.)

Prerequisite: PY 761, PY 762, PY 763. Corequisite: PY 791. Students work with their major readers toward completion of their thesis. *A thesis guidance fee is charged.*

PY 765 Thesis Guidance: Continuation (0.00 cr.)

Prerequisite: PY 764. Students work with their major readers toward completion of their thesis. *For students who started in the M.A. program Fall 1997 or thereafter. If thesis is not completed by the end of the second year in the program, students must enroll in this course each semester (excluding summer) until thesis is completed. Students may request a leave of absence if no work will be done on thesis. A thesis guidance fee is charged for each semester.*

PY 791 SPSS (Computer) Analysis of Psychological Data (3.00 cr.)

Prerequisite: PY 650 or written permission of the instructor is required. Corequisite: PY 764. Students learn to use the latest version of SPSS-PC to perform some of the most currently preferred parametric and nonparametric statistical procedures (e.g., chi-squared, t-test, correlation, ANOVA). Coverage includes an examination of the

various assumptions for each statistical test. In addition, students learn how to properly present research findings in written form (using the latest APA format).

PY 800 Professional, Legal, and Ethical Issues (3.00 cr.)

An introduction to the current ethical, legal, and professional standards and principles that govern the practice of psychology. Coverage includes the current APA Ethical Standards and local regulations or issues related to the practice and business of psychology. Examines topics associated with the clinician's legal and professional responsibilities to patients, the court system, institutions, and other professionals. *Restricted to Psy.D. students.*

PY 801 Principles of Objective Personality and Suicide Assessment (3.00 cr.)

Prerequisite: PY 601 and PY 602 or equivalent. Restricted to Psy.D. students. Provides an in-depth study of current methods of assessment with emphasis on measures of personality and suicidology. Familiarizes students with the current use of standardized instruments and intervention strategies in practice and research settings. *(Fall only)*

PY 802 Principles and Methods of Assessment (3.00 cr.)

Prerequisite: PY 801. Restricted to Psy.D. students. Focuses on advanced interviewing techniques, case conceptualization, and interpretation and integration of information from multiple sources such as psychological testing, background history, and theoretical knowledge. *(Spring only)*

PY 810 Psychological Measurement (3.00 cr.)

Topics include basic statistical indices, theory of measurement error, reliability, validity, and the role of measurement as it pertains to theory and technique of behavioral measurement. *Restricted to Psy.D. students.*

PY 813 Social and Cultural Bases of Psychology (3.00 cr.)

A review of current research and theory regarding social and cultural forces on human behavior and application to clinical practice. *Restricted to Psy.D. students.*

PY 814 Biopsychology (3.00 cr.)

A review of current research and theory regarding brain-behavior relationships. The content includes in-depth comprehension and learning of both human neuroanatomy and physiology. *Restricted to Psy.D. students.*

PY 815 Psychopathology Seminar (3.00 cr.)

An advanced examination of current theoretical work and research findings in adult and child psychopathology. Controversies in the area will be explored. *Restricted to Psy.D. students.*

PY 816 Life Span Development (3.00 cr.)

An in-depth study of current research and theory in human development across the life cycle. *Restricted to Psy.D. students.*

PY 818 Psychopharmacology (3.00 cr.)

A review of our current understanding of the role of pharmacology in the treatment of mental disorders. Students become familiar with major classification of psychotropic drugs and learn their hypothesized modes of action. *Restricted to Psy.D. students.*

PY 819 Historical and Philosophical Bases of Psychology (3.00 cr.)

A critical overview of classical historical and philosophical trends within psychology beginning with the Greek philosophers. *Restricted to Psy.D. students.*

PY 820 Cognitive and Learning Theory (3.00 cr.)

Reviews theories of human learning, cognitive development, and cognitive functioning. Examines "classic" and current research in the area. Emphasizes the application of learning models to clinical practice. *Restricted to Psy.D. students.*

PY 832 Research Methods in Clinical Psychology I (3.00 cr.)

Emphasizes current research design and statistical methods relevant to professional psychology. Possible topics include psychotherapy outcome research, demonstration of treatment effectiveness, single-subject design, and test validation. *Restricted to Psy.D. students.*

PY 833 Research Methods in Clinical Psychology II (3.00 cr.)

Prerequisite: PY 832. Restricted to Psy.D. students. A continuation of PY 832.

PY 841 Business Issues in Professional Practice (3.00 cr.)

Prerequisite: PY 840. Restricted to Psy.D. students. Provides students with a comprehensive understanding of the current health care marketplace, delivery systems, and core competencies necessary for success in clinical practice and other professional leadership roles.

PY 845 Models of Psychotherapy (3.00 cr.)

An in-depth focus on the current theory and application of a specific therapeutic model. Each offering focuses on a different model, such as cognitive, behavioral, psychodynamic, interpersonal, family systems, object relations, etc. One offering covering an empirically-validated treatment approach is required of all students. Other models are offered on a rotating basis. *Restricted to Psy.D. students. May be repeated for credit.*

PY 860 Data Management for Professional Psychologists (3.00 cr.)

Prerequisite: PY 833. Restricted to Psy.D. students. Introduces students to the current software and data management strategies used in professional practice in psychology. Possible topics include case management, spreadsheet, and database software and statistical packages.

PY 870 Diversity Seminar (3.00 cr.)

Explores our current understanding of the nature of human diversity and its impact on professional practice. Students develop sensitivity to working with individuals that may differ with respect to ethnicity, religion, gender, sexual orientation, national origin, or age. *Restricted to Psy.D. students.*

PY 886 Advanced Topics in Professional Psychology (3.00 cr.)

Elective courses offered on a rotating basis which provide in-depth and up-to-date coverage of a special topic related to the practice of psychology. Topics include specific treatment populations (children, adolescents, couples, minority populations, families, etc.); intervention techniques for a specific disorder; specialized assessment techniques (neuropsychological assessment); advanced statistical methods; or administration of mental health services. *Restricted to Psy.D. students. May be repeated for credit.*

PY 899 Independent Study (3.00 cr.)

Prerequisite: Written permission of the instructor is required. Restricted to Psy.D. students. Students may undertake supervised study or tutorial arrangements as a means of conducting in-depth, up-to-date investigation of a subject or for studying an area not covered by, but related to, the regular curriculum.

PY 902 Clinical Dissertation I (3.00 cr.)

Prerequisite: Written permission of the Dissertation Committee chair is required. Restricted to Psy.D. students. Requires the student to demonstrate mastery in an area of professional interest. Dissertation topic is approved by the

student's committee chair. An oral defense of the proposal is required. *(Pass/Fail)*

PY 903 Clinical Dissertation II (3.00 cr.)

Prerequisite: PY 902. *Restricted to Psy.D. students.* Students complete their dissertations under the direction of a committee chair and dissertation committee members. An oral presentation and an oral defense of the finished project are required. *(Pass/Fail)*

PY 904 Clinical Dissertation (3.00 cr.)

Prerequisite: PY 903. Students work with their major readers toward completion of their dissertation. *Designated for students who have not met all requirements for graduation and who are not enrolled in other courses. Required for the first semester that students meet the above criteria. (Fall only)*

PY 905 Clinical Dissertation: Continuation (3.00 cr.)

Prerequisite: PY 904. Students work with their major readers toward completion of their dissertation. *Designated for students who have not met all requirements for graduation and who are not enrolled in other courses. Required for subsequent semesters where the above criteria are met. (Spring only)*

PY 906 Dissertation Continuation I (0.00 cr.)

Prerequisite: PY 950, PY 951. Students work with their major readers toward completion of their dissertation. *Designated for students who have completed their clinical internship but have not completed their dissertation and are not enrolled in other courses.*

PY 907 Dissertation Continuation II (0.00 cr.)

Prerequisite: PY 906. Students work with their major readers toward completion of their dissertation. *Designated for students who have completed their clinical internship but have not completed their dissertation and are not enrolled in other courses.*

PY 912 Colloquium (0.00 cr.)

Each semester students and faculty attend a series of required doctoral meetings. Topics include guest lecturers and discussions of current issues relating to the development of professional psychologists. *Restricted to Psy.D. students. May be repeated.*

PY 918 Professional Supervision and Development (2.00 cr.)

Each semester, students participate in small group supervision with a faculty mentor to discuss relevant issues of professional development and to present cases from their field training for discussion and feedback. *Restricted to Psy.D. students. May be repeated for credit. (Pass/Fail)*

PY 920 Clinical Placement I (2.00 cr.)

Prerequisite: *Written permission of the director of field education is required. Restricted to Psy.D. students.* Students are placed in a clinical setting in the community for 10 hours per week. Supervision is provided on-site and in class using small group supervision. *May be repeated once for credit. (Pass/Fail)*

PY 921 Clinical Placement II (3.00 cr.)

Prerequisite: *Written permission of the director of field education is required. Restricted to Psy.D. students.* Students are placed in a clinical setting in the community for 16 hours per week. Supervision is provided on-site. *May be repeated once for credit. (Pass/Fail)*

PY 922 Clinical Placement III (3.00 cr.)

Prerequisite: *Written permission of the director of field education is required. Restricted to Psy.D. students.* Students are placed in a clinical setting in the community for 16 hours per week. Supervision is provided on-site. *May be repeated for once for credit. (Pass/Fail)*

PY 950 Clinical Internship I (0.00 cr.)

Prerequisite: *Written permission of the director of doctoral education is required. Restricted to Psy.D. students.* A full-time, 2,000-hour internship experience arranged in consultation with the director of field education. *A registration fee is charged. (Pass/Fail)*

PY 951 Clinical Internship II (0.00 cr.)

Prerequisite: PY 950. *Restricted to Psy.D. students.* A continuation of PY 950 to complete the internship. *A registration fee is charged. (Pass/Fail)*

OFFICE: Newman Towers, Room W104

TELEPHONE: 410-617-7650

CHAIR: Lisa Schoenbrodt, Associate Professor
DIRECTOR, MASTER'S PROGRAM IN SPEECH-LANGUAGE PATHOLOGY: Libby Kumin, Professor

CLINIC DIRECTOR: John Sloan

PROFESSOR: Libby Kumin

ASSOCIATE PROFESSOR: Lisa Schoenbrodt

ASSISTANT PROFESSORS: Tracie Bullock

Dickson; Marie Kerins; Kathleen Siren

INSTRUCTOR: Kathleen Ward

ACADEMIC/CLINICAL CORE FACULTY: Ann Beetz; Pamela Brooker; Cheryl Councill; Sally Gallena; Mina Goodman; Paula McGraw; Barbara Miller; Janet Preis; Sandra W. Shapiro; Janet M. Simon; John Sloan; Lura Vogelman

ADJUNCT FACULTY: Diane Bahr; Maureen Boner; Mia S. Groff; Michele Miller; Barbara Ness; Donna Pitts; Eileen Quinto; Lori Sovia

The major purpose of the graduate program in speech-language pathology/audiology is education and development of superior professionals for careers as speech-language pathologists. The master's program in speech-language pathology is accredited by the American Speech-Language-Hearing Association. The curriculum challenges pre-professionals academically, clinically, and personally. The program consists of integrated academic and clinical training in the assessment and treatment of infants, children, and adults who have communication disorders. The academic program provides the knowledge base for understanding the complex area of human communication systems and disorders.

Students who have completed the undergraduate major have begun with coursework in normal systems and development. At the graduate level, they advance to course work in communication disorders, and applications of the knowledge base to assessment and intervention.

Students have the opportunity to obtain supervised observation and clinical practice experience under the guidance of the clinical faculty. The program guides students through a series of increas-

ingly more advanced clinical experiences to prepare them for the professional world.

Students have ample opportunities to obtain supervised clinical experience in a variety of settings including public and private schools; acute and chronic care hospitals; rehabilitation centers; health departments; home health agencies; the Margaret A. McManus-Moag Speech, Language, and Hearing Clinic in Baltimore; the Columbia Speech and Language Center; and the Timonium Speech and Language Literacy Center.

ADMISSION CRITERIA

The Committee on Admissions reviews all applications. The Committee seeks students of high quality from accredited institutions of higher learning who ranked in the upper half of their classes as undergraduates and maintained a high cumulative average. A minimum of a *B* (3.000) cumulative average with a higher average in the major and pre-professional undergraduate preparation in speech-language pathology/audiology is required. Confidential recommendations are also reviewed. Applicants must submit scores from the Graduate Record Examination (GRE). A personal interview may also be required.

There are a limited number of slots in the master's program, and admission is selective and competitive. Students are encouraged to apply early. The program is a two-year (four-semester), full-time program. **All applications must be received by February 1, and all decisions are made by March 15 for the Fall Semester.**

Students who have not completed an undergraduate major in speech-language pathology/audiology must complete prerequisites **before** applying to the master's degree program. These courses can be taken on a part-time basis at any accredited program and would typically require three to four terms to complete. In the last term of undergraduate prerequisite courses, students may apply for admission to the graduate program. Students must submit transcripts from all colleges where prerequisites were completed.

CREDITS REQUIRED

The degree requirements for the Master of Science in Speech-Language Pathology (M.S.) are a minimum of 45 credits. The number of credits required for the Certificate of Advanced Study in Speech Pathology is 30 credits beyond the master's degree.

For graduate students majoring in speech pathology, 500-level courses do not calculate in the cumulative quality point average nor do they count as requirements completed for the degree. They are prerequisites for the advanced 600-level courses in the major.

DEGREE REQUIREMENTS

A minimum of 36 credit hours in coursework and 9 credit hours of clinical practicum are required for the degree. Students may have the opportunity to take coursework in reading, psychology, special education, and/or guidance and counseling to complement related coursework completed on the undergraduate level. Students are required to successfully complete the comprehensive examination or to plan, write, and defend a thesis under the direction of a faculty committee. Students are also required to successfully complete clinical practicum training to prepare for professional certification.

Students completing the master's program will have fulfilled the academic and clinical practice requirements for certification by the American Speech-Language-Hearing Association and for Maryland state licensure. In order to qualify for professional certification, students must have also completed basic courses in natural, behavioral, and social sciences at the undergraduate level. Students who have not completed those courses will be required to complete them in addition to the degree requirements of their program. These courses do not count in the student's cumulative QPA.

ACADEMIC COURSEWORK

Classes are held on Mondays at the Columbia Campus in specially designed executive classrooms. Clinical practica are scheduled Tuesday through Friday at various internship and externship sites.

COMPREHENSIVE EXAMINATION

As part of the master's program, students are required to pass the comprehensive examination. A written essay examination in five subject areas will be given. Students will contract for the areas in which they will write.

Applications must be received by the Comprehensive Examination Committee Chair at least 30 days prior to the date of the examination. The Speech-Language Pathology/Audiology Graduate Student Handbook, available in the departmental office, contains complete examination requirements and application forms. All students receive the handbook as part of the orientation and advising program.

MASTER'S THESIS

A scientific investigation of publishable quality in which the student demonstrates a strong knowledge base, research capacity, creativity, and analytic/writing skills. The thesis is not required for all students but is suggested for students who have maintained a 3.500 grade point average and are interested in pursuing doctoral level study and/or clinical research activity. A student interested in exploring the thesis option must meet with the faculty member whose expertise is in the area of investigation. The student may work with the faculty member on an independent study to review the literature in the chosen area and develop the research proposal.

Research proposal guidelines are available through the department. The student submits the proposal to the faculty adviser and two additional faculty members who will serve as readers on the committee. The student must meet with the thesis adviser who will work closely with the student through the data collection and analysis phases of the project. The student will be required to defend the thesis before a selected faculty committee. The final copy of the master's thesis must be accompanied by an approval form signed by the members of the thesis committee. It must be submitted at least three weeks prior to the student's expected graduation date.

ACADEMIC REQUIREMENTS

All students entering the program must meet the following requirements:

Language

- SP 601 Language Disorders: Adult
- SP 602 Language Disorders: Infancy Through Early Childhood
- SP 624 Language Disorders in School-Age Children
- SP 704 Cognitive-Communication Disorders: Adult

Speech

- SP 600 Neurological Disorders of Speech
- SP 604 Voice Disorders
- SP 617 Fluency Disorders
- SP 664 Oral Motor/Swallowing Disorders

Other required professional coursework:

- SP 608 Communication Disorders and Diversity
- SP 625 Research and Experimental Design
- SP 656 Ethics and Professional Practice

Three of the following courses:

- SP 612 Aural Habilitation: Child and Adult
- SP 613 Advanced Phonology
- SP 650 Augmentative Communication
- SP 661 Communication Disorders and Family Counseling
- SP 662 Advanced Topics in Childhood Communication Disorders
- SP 663 Advanced Topics in Adult Communication Disorders

Clinical Practicum

- SP 626 Clinical Audiology Internship
- SP 627 Clinical Audiology Externship
- SP 633 Graduate Clinical Skills Practicum
- SP 634 Clinical Speech-Language Pathology Internship
- SP 635 Clinical Speech-Language Pathology Externship
- SP 636 Advanced Clinical Practicum: Specialty Clinical Programs
- SP 637 Clinical Speech-Language Pathology Externship in the Schools

All programs are designed to comply with the certification and licensing standards of the Maryland State Department of Health and the certification requirements of the American-Speech-Language-Hearing Association. The Association has five major requirements for awarding the Certificate of Clinical Competence:

1. Prescribed minimal coursework on the undergraduate and graduate levels.
2. A minimum of 375 clock hours of clinical practice (at least 200 at the graduate level).
3. Membership in the Association.
4. Written evidence of nine months supervised, full-time professional employment, Clinical Fellowship Year (CFY) following the degree.
5. Passing a written examination administered through the association.

Upon completion of a master's degree, students will have satisfied the first three of these requirements and will be eligible for the remaining two.

CLINICAL REQUIREMENTS

All students are required to successfully complete the program of clinical training. This will require a minimum of 375 practicum hours, with a requirement of one summer internship placement which may be taken the summer before formal coursework begins or during the summer between the first and second year of graduate work.

Students are provided with supervised clinical experiences matched to their level of clinical expertise. Students begin their clinical practice experience within the Loyola College clinical settings and are supervised by the clinical/academic faculty. Student progress is reviewed each semester by the Graduate Clinical Placement Committee to assess readiness to advance to different types of clinical experiences. Students who do not adequately complete the clinical internship must repeat the internship until the Committee grants them approval for advancement. As students progress, they are placed in a variety of settings to provide a carefully controlled progression of difficulty.

Advanced students may be placed in hospital/school/rehabilitation settings, work with complex clinical problems, and/or conduct clinical research with the College faculty. The graduate clinical placement adviser and the Graduate Clinical Placement Committee review student applications each term and advise students to register for one of the following clinical practicum courses:

- SP 626 Clinical Audiology Internship
- SP 633 Graduate Clinical Skills Practicum
- SP 634 Clinical Speech-Language Pathology Internship
- SP 635 Clinical Speech-Language Pathology Externship
- SP 636 Advanced Clinical Practicum: Specialty Clinical Programs
- SP 637 Clinical Speech-Language Pathology Externship in the Schools

Loyola College is known for the excellence of its clinical intern- and externship programs.

ACADEMIC STANDARDS

Students must maintain a *B* (3.000) average to graduate from the program. No more than one grade below *B* (2.670) can be counted toward the credits for the master's degree. A student who receives one grade below *B* (2.670) will be placed on academic probation. A student who receives more than two grades below *B* (2.670) can be dismissed from the program. A grade of *F* will result in dismissal from the program. Students must also demonstrate satisfactory clinical practicum performance and adequate English speech and writing skills.

LOYOLA SPEECH-LANGUAGE-HEARING CENTERS

In conjunction with the professional training programs in speech-language pathology/audiology, the Margaret A. McManus-Moag Speech, Language, and Hearing Clinic in Baltimore, the Columbia Speech and Language Center, and the Timonium Speech and Language Literacy Center offer a wide range of services to children and adults with speech, language, and/or hearing impairments.

Services at the centers include diagnostic evaluations for speech, language, oral motor skills, and

hearing; habilitative and rehabilitative speech-language-hearing therapy; and counseling provided on an individual or group basis depending on the patient's problems and needs. Clients have a wide range of disorders including articulation, language, fluency, voice, autism/pervasive developmental disability, Down Syndrome, neurological, closed head injury, and aphasia.

The Margaret A. McManus-Moag Speech, Language, and Hearing Clinic is a modern, fully equipped facility structurally designed to meet stringent acoustical standards. Diagnostic hearing testing is done in an Industrial Acoustics Company sound suite. Specialty therapy clinics in specific language/learning disabilities, fluency disorders, and audiological testing and aural rehabilitation are part of the Center. The Columbia Speech and Language Center has a special language intervention program for children with Down Syndrome. The Timonium Speech and Language Literacy Center has early intervention, oral motor, language learning disability, and accent reduction programs.

All clinical supervisors hold Certificates of Clinical Competence awarded by the American Speech-Language-Hearing Association and are licensed by the state of Maryland.

Loyola College has professional affiliations with schools, hospitals, and rehabilitation centers in the Baltimore area. Some of the affiliating agencies at which students have received professional training are listed below:

- Anne Arundel County Public Schools
- Baltimore City Public Schools
- Baltimore County Public Schools
- Catholic Archdiocese of Baltimore School System
- Children's Guild
- Fort Howard Veterans Hospital
- Francis Scott Key Medical Center
- Gateway School
- Good Samaritan Hospital
- Greater Baltimore Medical Center
- Hearing and Speech Agency of Metropolitan Baltimore
- Howard County Public Schools
- Kennedy-Krieger Institute for the Habilitation of the Mentally and Physically Handicapped
- Johns Hopkins Hospital

Maryland General Hospital/Bryn Mawr
Rehabilitation
Maryland Institute for Emergency Medical
Service System (Shock-Trauma)
Maryland School for the Blind
Maryland School for the Deaf – Columbia and
Frederick
Maryland Rehabilitation Center
Milton Dance Head and Neck Cancer
Rehabilitation Center (GBMC)
National Rehabilitation Medical Center
Saint Elizabeth School and Habilitation Center
Saint Francis School for Special Education
Scottish Rite Center
Sinai Hospital
United Cerebral Palsy of Central Maryland
University of Maryland Hospital

FELLOWSHIPS AND TRAINEESHIPS

Some advanced clinical training sites provide financial aid in the form of traineeships for students at their placement sites. Fellowships are available at the Veteran's Administration Hospital – Fort Howard, the Kennedy Institute at Johns Hopkins University Hospital, and the Scottish Rite Center for Aphasic Children of the Hearing and Speech Agency.

A limited number of departmental graduate assistantships are available. Some scholarship awards are made by local service organizations to qualified students. For an application and further information, students should send a resume and cover letter indicating their interest to Dr. Kathleen Siren, Financial Aid Committee.

DISTINGUISHED SPEAKER'S COLLOQUIUM

The department sponsors an annual Distinguished Speakers Colloquium series which provides graduate students and practicing professionals with insight into advanced topics and exposure to skilled clinicians who are on the frontiers of the profession.

PREPARING FOR THE PROFESSIONAL WORLD

The department offers a series of lectures and workshops and an annual Career Day conducted in conjunction with the Career Development and Placement Center to aid students in applying for

professional certification, preparing credentials files, and interviewing.

ADVANCED CERTIFICATE PROGRAM

The Certificate of Advanced Graduate Study (CAGS) enables the professional who holds the master's degree in speech-language pathology or its equivalent to continue professional development. The department is approved as a Continuing Education Sponsor by the American Speech-Language-Hearing Association. The CAGS program offers:

1. Advanced state-of-the-art course work in an organized sequence of study.
2. Certificate awarded after completion of 30 credits beyond the master's degree.
3. Contact classroom hours for Maryland state license renewal.
4. Contact hours toward the ASHA Award for Continuing Education (ACE).
5. Advanced speciality clinical training in language/learning disabilities, adult aphasia, apraxia, voice disorders, head injury, dysarthria rehabilitation, oral motor treatment, augmentative communication, and other speciality areas.

COURSE DESCRIPTIONS

SP 600 Neurological Disorders of Speech (3.00 cr.)

Normal neuroanatomical and physiological bases of speech production. Neuropathologies of speech production in adults and children. Assessment and treatment of motor speech disorders.

SP 601 Language Disorders: Adult (3.00 cr.)

Prerequisite: SP 600. Theoretical bases of acquired language disorders in the adult population. Diagnostic tools and treatment approaches based on theories of the nature of aphasia. Current trends in aphasia treatment in response to changes in the health care environment. *Required as a prerequisite for advanced adult clinical placements.*

SP 602 Language Disorders: Infancy through Early Childhood (3.00 cr.)

Language assessment and treatment for children with developmental disabilities from birth to age 5. Course includes information on legislation impacting early

intervention (birth–2) and programs for 3–5 year olds, clinical symptom complexes, diagnostic criteria, and evaluation and treatment resources. Focuses on infants and young children with language delays and disorders with an emphasis on the special needs populations with Autism spectrum disorders, fetal alcohol syndrome, drug exposure, Fragile X syndrome, and Down syndrome.

SP 603 Introduction to Exceptionality (3.00 cr.)

Designed for professionals in human communications. Introduction to exceptionality through review of federal legislation and the associated handicaps defined within the law. Considers developmental and educational patterns, as well as service delivery models in special education. Students develop individualized diagnostic and treatment plans and review models for development of the ITP, IEP, and IFSP.

SP 604 Voice Disorders (3.00 cr.)

Topics include anatomy and physiology of the larynx relative to normal and disordered phonation; current evaluation methods via acoustic and perceptual means; treatment techniques and approaches for organic and functional voice problems in the pediatric and adult populations.

SP 605 Graduate Seminar (3.00 cr.)

Selected topics relevant to clinical and/or research aspects of disorders of human communication.

SP 607 Communicative Disorders of the Geriatric Population (3.00 cr.)

Topics include anatomic, physiologic, cognitive, and psychosocial changes in the aging process; diagnosis and rehabilitation of communicative disorders including those associated with dementia; diagnosis and rehabilitation of dysphagia in the geriatric client; use of the interdisciplinary team approach in diagnosis and rehabilitation; alternatives to nursing homes; medicare issues; ethical dilemmas particular to this population; death and dying.

SP 608 Communication Disorders and Diversity (3.00 cr.)

Addresses the relationship between culture and communication. Focuses on cultural considerations in the assessment and treatment of communication disorders and in working with families from diverse backgrounds. Special emphasis is placed on African-American, Hispanic, and Asian cultures. Professional guidelines and policies specific clinical strategies relating to bilingual, bidialectal, bicultural, and multicultural populations are discussed.

SP 609 Clinical Applications of Advanced Behavioral Techniques (3.00 cr.)

Advanced concepts in clinical applications of behavior management. Major disorders and therapeutic approaches investigated from a behavioral framework in order to increase clinical effectiveness.

SP 610 Diagnostic Procedures in Language Disorders (3.00 cr.)

Prerequisite: SP 502 or speech pathology major. Diagnostic tests and evaluation procedures for assessing communicative functioning in children. Tests reviewed in terms of theoretical construct, standardization procedures, reliability, validity, interpretation, etc. Also addresses differential diagnosis, pragmatic assessment, infant/preschool assessments, report writing.

SP 611 Advanced Diagnostic Procedures in Speech/Language Pathology (3.00 cr.)

Current speech/language diagnostic tests; evaluation procedures for school-age children. Emphasis on test/validity and reliability, differential diagnosis, naturalistic assessments, interpretation of all test results as applied to therapeutic intervention; interviewing and counseling techniques.

SP 612 Aural Habilitation: Child and Adult (3.00 cr.)

The effects of early hearing loss on the development of a child, as well as its impact on linguistic, cognitive, psychological, and social development. Also discusses educational options as well as assessment and intervention methods for aural habilitation. Considers the effects of late onset hearing loss on the adult and geriatric population. Discusses assessment, counseling, hearing aids, and intervention strategies.

SP 613 Advanced Phonology (3.00 cr.)

Normal and deviant developmental phonology. Distinctive feature, and phonological process analysis for assessment and intervention. Orofacial development and pathology with emphasis on cleft palate and related anomalies. Assessment and treatment for oro-nasopharyngeal and maxillo facial disorders.

SP 614 Advanced Pragmatics and Semantics (3.00 cr.)

Normal and disordered developmental pragmatics and semantics. Assessment and intervention for pragmatic and semantic language disorders in children and adults, including populations with language learning disabilities, mental retardation, and psychiatric disorders.

SP 615 Independent Study in**Language Pathology (3.00 cr.)**

Prerequisite: Written permission of the instructor is required. Students conduct a research study under the guidance of a faculty adviser. Students must obtain permission of the chair before registering for this course. *Students who choose the thesis option should register for this course.*

SP 616 Independent Study in**Speech Pathology (3.00 cr.)**

Prerequisite: Written permission of the instructor is required. Independent, in-depth study concentrated on a specific topic in speech, language, or hearing pathology to be approved by the department. *The student must be sponsored by a faculty member who will guide the study.*

SP 617 Fluency Disorders (3.00 cr.)

Approaches in the diagnosis and treatment of stuttering; practical considerations of major theories of stuttering in light of current research findings; specific emphasis on the clinical procedures employed in stuttering therapy.

SP 618 Clinical Audiology (3.00 cr.)

A didactic experiential course providing clinical experience in supra-threshold and oimmittance testing. Studies other advanced topics such as testing special populations, brain stem audiometry, electrocochleography, and electroacoustical measures of hearing aids.

SP 619 Pediatric Audiology (3.00 cr.)

Development of auditory skills and response behaviors; identification and assessment of auditory impairment in neonates, infants, and children through school age, including the difficult-to-test or exceptional child.

SP 624 Language Disorders in School-Age Children (3.00 cr.)

Prerequisite: SP 602. Clinical symptoms, assessment, and intervention for school-aged children (ages 5–21). Focuses on school-based issues including legislation, funding, transitioning, curriculum-based classroom treatment, and collaborative consultation. Assessment and treatment focus on individuals with language learning disabilities, minority population concerns, adolescent language, autism, mental retardation, attention deficit disorder, and Tourette Syndrome.

SP 625 Research and Experimental Design (3.00 cr.)

Experimental techniques in speech-language pathology/audiology. Students learn to use research tools and resources and evaluate professional research.

SP 626 Clinical Audiology Internship (2–3.00 cr.)

Identification, diagnostic, and rehabilitation procedures including air and bone conduction testing, speech audiology, emittance testing, central auditory processing testing (CAPD), otoacoustic emissions testing, hearing aid fitting, and aural habilitation therapy. Clinical practice takes place in Loyola College Clinical Centers under the supervision of department faculty. *Admission by application to the Graduate Clinical Placement Committee. May be repeated for credit.*

SP 627 Clinical Audiology Externship (2–3.00 cr.)

Identification, diagnostic, and rehabilitation procedures including air and bone conduction testing, speech audiology, emittance testing, central auditory processing testing (CAPD), otoacoustic emissions testing, hearing aid fitting, and aural habilitation therapy. Clinical practice takes place at a selected externship site affiliated with the College. *Admission by application to the Graduate Clinical Placement Committee.*

SP 633 Graduate Clinical Skills Practicum (2.00 cr.)

Introduces students to the professional practice of speech-language pathology and audiology. Placement targets specific skill development in the professional domain, e.g., observation, data collection, equipment operation/maintenance, report writing, case development and presentation, case management. Graduate clinicians participate in the development and implementation of assessment treatment, counseling, and evaluation protocols with the clinical supervisor. *May be repeated for credit. (Pass/Fail)*

SP 634 Clinical Speech-Language Pathology Internship (2–4.00 cr.)

Provides students with an opportunity to gain experience with specific communication disorders, and diverse client populations. Emphasis on the development of effective evaluation and treatment programs, based on the application of academic coursework to clinical service delivery. *Admission by application to the Graduate Clinical Placement Committee.*

SP 635 Clinical Speech-Language Pathology Externship (2–4.00 cr.)

Provides students with speech-language pathology experiences in selected clinical settings such as rehabilitation centers and hospitals. Students are assigned to the facility two to three days per week. *Admission by application to the Graduate Clinical Placement Committee.*

SP 636 Advanced Clinical Practicum:**Specialty Clinical Programs (4.00 cr.)**

Advanced clinical placements providing experience with challenging client populations in four-day per week hospital and clinical settings. *Admission by application to the graduate clinical placement committee.*

SP 637 Clinical Speech-Language Pathology**Externship in the Schools (3.00 cr.)**

Prerequisite: SP 633. *Recommended Prerequisite:* SP 634. Provides students with comprehensive speech-language pathology experiences in school settings from birth to twenty-one years. Placements may include public and private, regular education, special education, day, and/or residential settings. Focuses on current assessment and treatment models and methods in the schools. *Admission by application to the graduate clinical placement committee.*

SP 649 Computer Literacy for**Speech Pathologists (3.00 cr.)**

Introduction to computer use and applications in speech/language pathology. Discusses software in the field; students write a basic therapy software program.

SP 650 Augmentative Communication (3.00 cr.)

Augmentative assessment, prescription, and treatment using high tech and low tech communication systems with pediatric and adult populations. System development and implementation. Computer applications focusing on state-of-the-art hardware and software for language rehabilitation.

SP 653 Evaluation/Selection of**Clinical Computer Software (1.00 cr.)**

Didactic-experiential workshop provides a framework of evaluation criteria to enable clinicians to evaluate commercial software packages and to select appropriate clinical software.

SP 654 Augmentative Communication/**Technological Devices (2.00 cr.)**

Didactic-experiential intensive course. An overview of computer assistance in the development of communication aids for nonspeaking populations.

SP 655 Microcomputers: A Clinical**Management Tool (1.00 cr.)**

An overview of the microcomputer as a practice management tool. Includes clinical forms generation, word processing, billing, patient records, report writing, and IEP development. Appropriate for clinicians regardless of their employment setting.

SP 656 Ethics and Professional Practice (3.00 cr.)

Offered to advanced students to familiarize them with ethical issues related to the professional practice of audiology and speech-language pathology. Presents an operational framework enabling each student to evaluate issues with reference to a professional code of ethics (ASHA), personal ethical beliefs, and in consideration of recent legislation.

SP 657 Thesis Seminar (3.00 cr.)

Prerequisite: Written permission of the instructor is required. *Restricted to students completing a master's thesis.* Students complete a proposal and/or thesis research as part of this course.

SP 660 Advanced Seminar in Language**Learning Disabilities (3-4.00 cr.)**

Advanced intensive didactic-experiential seminar in therapeutic procedures with the language learning disabled. *The four credit option includes clinical practice requirement.*

SP 661 Communication Disorders and**Family Counseling (3.00 cr.)**

Focuses on family counseling in the assessment-intervention process for communication disorders from infancy to geriatric populations. Topics include ethnic/cultural, age, gender, social, and diagnostic label issues as well as acute and chronic disorder issues. Case studies and resources for family support are discussed.

SP 662 Advanced Topics in Childhood**Communication Disorders (3.00 cr.)**

Prerequisite: SP 602, SP 624. Provides students with information regarding communication disorders in low incidence pediatric populations. An emphasis is placed on identification and remediation of various disorders from a focus of the speech-language pathologist as a part of the multidisciplinary team in the school and hospital setting.

SP 663 Advanced Topics in Adult**Communication Disorders (3.00 cr.)**

Prerequisite: SP 600, SP 601. Addresses expanding knowledge relating to adult communication disorders. Areas include closed and open head injury, right hemisphere brain damage, and other newly emerging professional areas.

SP 664 Oral Motor/Swallowing Disorders (3.00 cr.)

Prerequisite: SP 600. Assessment and treatment of oral motor and swallowing disorders in pediatric and adult populations. Current assessment and treatment techniques are mastered through a didactic-experiential

approach. Addresses feeding, eating/drinking, and speech production concerns (e.g., dysarthria, apraxia).

SP 665 Principles of Administration in Speech/Language/Hearing (2.00 cr.)

Basic concepts in supervision and program administration. Emphasizes systems management approach, including ASHA, CASE, and PPME, to review effective leadership style, organizational structure, case management, and program accountability.

SP 666 Assessment and Remediation of Dysphagia (2.00 cr.)

Skills needed to evaluate and treat problems in the oral phase of swallowing. In-depth assessment of oral-motor function and its relation to dysphagia, diagnostic profiles, and videotapes of swallowing in dysphagic patients. Presents specific treatment strategies.

SP 667 Third Party Coverage for Speech-Language Pathology and Audiology Services (1.00 cr.)

Review of third party coverage and reimbursement currently available and major changes in reimbursement strategies for cost containment. Discussion of HMOs, PPOs, employer coalitions, and prospective payment systems. Emphasizes the impact on professional services.

SP 670 Advanced Seminar: Adult Diagnostics (3.00 cr.)

Prerequisite: Graduate level neurological disorders and aphasia course. Designed for practicing speech-language pathologists or advanced graduate students. Presents procedures for evaluating CVA/aphasia, apraxia, dysphagia, dysarthric, and degenerative neurologic disorders. Additional topics include non-standardized assessment techniques; third party reimbursement.

SP 671 Presenting In-Service Training Programs to Nursing Home Personnel (1.00 cr.)

Lecture experiential program to teach speech-language pathologists how to conduct effective in-service training to nursing home personnel. The nature, cause, and treatment of commonly encountered disorders, with special attention to communication barriers in the nursing home setting. *In addition to the one day lecture, students will tour a nursing home and will be required to complete a project. For CAGS students only.*

SP 672 Cognitive Rehabilitation in Adult Head Injury (2.00 cr.)

Neuroanatomical and pathophysiological aspects of traumatic brain injury and its associated behavioral sequelae. Discusses in-depth testing procedures, the diag-

nosis of cognitive-linguistic deficits, and the development of treatment plans to facilitate cognitive retraining. Special cases discussed. *Course requirements include an independent project.*

SP 673 Evaluation and Treatment of Adolescent Head-Injured Patients (1.00 cr.)

A clinically oriented course presenting an in-depth analysis of a newly developed test, the ASAR normed on adolescent closed head trauma patients. Attention given to a series of newly developed computer assisted language based intervention strategies for mildly impaired patients with memory loss and other residual cognitive impairments. *Restricted to CAGS and special students.*

SP 674 Administrative Internship (2-6.00 cr.)

Provides hands-on experience in the daily administration of a speech and hearing facility. Principles of administration, budgeting, public relations, and quality assurance techniques.

SP 675 Advanced Seminar: Treatment of Adult Neurogenic Disorders (3.00 cr.)

Designed for advanced graduate students and practicing speech pathologists. Lecture/observation/participation format used to present procedures for treatment of aphasia, dysarthria, apraxia, dysphagia, and right hemisphere language impairment.

SP 676 Semantic Acquisition in the Normal Child (1.00 cr.)

Theories of semantic acquisition. Explains how the child acquires relational terms, deictic terms, and logical connectives.

SP 677 Pragmatic Acquisition of the Young Child (1.00 cr.)

An overview of the acquisition of pragmatics in children. Addresses adult-child interactions, revision strategies, and the use of directions.

SP 678 Early Language Intervention (2.00 cr.)

Focuses on direct therapeutic techniques as well as home-based parent-child intervention. Covers the role of play in early language, levels of play activity, early cognitive growth, and the role of the speech and language pathologist.

SP 679 Conductive Hearing Loss and Language Development in Children (1.00 cr.)

Examines development of the central auditory nervous system and tests to evaluate CANS function with

emphasis on the possible effects of conductive hearing loss on speech/language development and later academic performance. *Appropriate for speech pathologists, audiologists, and special education teachers.*

SP 680 Evaluation and Treatment Strategies for Oral and Written Language (2.00 cr.)

Formal and informal diagnostic procedures for assessing specific language deficits typical of intermediate, middle, and high school age students. *May be taken by speech pathology CAGS students and students from allied disciplines.*

SP 681 Spelling: A Psycholinguistic Approach to Remediation (1.00 cr.)

Explores spelling from a psycholinguistic perspective including theoretical and practical considerations with implications for the language impaired student.

SP 682 Oral Expressive and Receptive Language Problems: Middle and High School (2.00 cr.)

Discusses social and academic implications of language deficits in adolescents. Uses a case study format to analyze language based learning problems, formulate diagnostic procedures, and derive practical treatment procedures.

SP 683 Amer-Ind Code (2.00 cr.)

Participants learn 250 Amer-Ind code signals which can be expanded into approximately 5,000 words. Theoretical basis for the use of Amer-Ind, as well as case selection and treatment design for clients with post-laryngectomy, glossectomy, aphasia, and mental retardation.

SP 684 Principles of Clinical Supervision (3.00 cr.)

Prerequisite: Permission of the department chair is required. An overview of supervisory models with laboratory experience in a supervisory dyad.

SP 685 Discourse Analysis (2.00 cr.)

Discussion of discourse processing, proposition analysis, story structure analysis, and the role of cohesive devices in the language learning disabled population.

SP 686 Strategies for Remediation of Written and Oral Language Disabilities (1.00 cr.)

Assessment and intervention strategies for adolescents with written and oral language disabilities.

SP 687 Introduction to Cued Speech (3.00 cr.)

An introduction to cued speech, a system developed by R. Orin Cornett to facilitate language development in hearing impaired children.

SP 688 Language Acquisition and Language Impairment (2.00 cr.)

Nature of language acquisition in the normally achieving and in the language impaired child. Applies development of vocabulary, syntax, semantics, pragmatics, and connected discourse to language intervention procedures with children and adolescents who have language disabilities.

SP 689 Communicative Assessment Left and Right CVA (2.00 cr.)

Cognitive-communication deficits associated with left and right CVA adults and closed head injured patients. Reviews formal and informal assessment tools used to evaluate aphasia, dementia, and right hemisphere communication syndrome, including videotapes of administration and scoring of tests. Topics include sensory stimulation, development of functional communication systems, management of confused and agitated patient.

SP 690 Collaborative Consultation (2.00 cr.)

Examines the role of the speech-language pathologist as consultant within an educational setting. Participants review topics which will enable them to consider the curriculum content as the basis for speech and language instructional activities. Covers preschool through high school levels.

SP 691 Pre-Speech, Feeding, and Early Oro-Motor Intervention (2.00 cr.)

An academic-experiential workshop addressing normal/abnormal feeding patterns using a developmental and neuromotor framework. Participants engage in evaluation and treatment planning activities.

SP 692 Clinical Skills Update: Fluency Disorders (2.00 cr.)

Advanced course in assessment and treatment of fluency disorders. Participants develop a multifactor approach to the treatment of fluency disorders.

SP 693 Written Language Disorders (2.00 cr.)

Provides theory and practice for the evaluation and treatment of written language disorders. Reviews strategies to enhance the development of written language skills.

SP 694 Whole Language/Structured Phonics (2.00 cr.)

Introduces the whole language/structured phonics approach to language instruction. Demonstrates this integrated process and reviews current research into this model of language development.

SP 695 Communication for Behavioral Change (2.00 cr.)

Reviews models of behavioral change which enhance instructional programs and the learning environment. Reviews strategies to enhance individual and group behavioral change.

SP 696 Clinic Update: Scope of Practice (2.00 cr.)

Designed to respond to issues/challenges facing the SLP/A within the profession. Topics include ethics, professional liability, quality assurance, record management, accountability, networking, funding, ASHA restructure, and service delivery mandates.

SP 697 Advanced Written Language Disorders (1.00 cr.)

Prerequisite: SP 693. Designed for speech-language pathologists who desire to increase competency in the diagnosis and treatment of complex written language disorders. *Open to postmaster's students in speech-language pathology.*

SP 698 Diagnostic Procedures and Treatment of Oral Motor and Swallowing Disorders (2.00 cr.)

Includes management of oral motor and swallowing disorders, both in the pediatric and adult populations. Emphasizes neurodevelopmental approach.

SP 699 Updating Clinical Skills/Voice Disorders (2.00 cr.)

Current assessment, treatment, and documentation protocols for functional voice disorders. Format consists of case history review, technological assessment, and consultation with related professionals.

SP 700 Communication and Educational Reintegration of Children with Acquired Brain Injury (2.00 cr.)

Examines the issues related to the needs of children with acquired brain injury. Introduces protocols for assessment, intervention, or treatment. Transition topics address reintegration needs for communication, psychosocial development, and behavior.

SP 701 Development of Functional/Social Communication Skills with Developmentally Disabled Adults (2.00 cr.)

Examines the functional and social communication needs of developmentally disabled adults. Reviews current trends in transitional and vocational training considerations for adults. Examines assessment protocols and intervention programs and the modifications necessary in planning for this population.

SP 702 Clinical Practicum for Postgraduate Students (2-6.00 cr.)

Prerequisite: Written permission of the instructor is required. An advanced placement designed to meet the needs of the postgraduate speech-language pathologist who desires advanced-level clinical training in preparation for professional re-entry, clinical specialization, or an anticipated change in the professional practice setting. *Open to CAGS, special, or visiting students.*

SP 703 Applied Research Methods in Speech-Language Pathology/Audiology (3.00 cr.)

Introduces the student to methods of quantitative and qualitative research designs and their application to clinical work. Students are expected to design a research study applicable to their specific work setting. Students have an opportunity to conduct critical reviews of professional journal publications. *Open to CAGS students.*

SP 704 Cognitive-Communication Disorders: Adult (3.00 cr.)

Prerequisite: SP 600, SP 601. Comprehensive study of current theories regarding the assessment and treatment of cognitive-communication disorders in adults resulting from right hemisphere disorder, traumatic brain injury, and dementia. Disorders associated with language-learning disability in the adult client are also addressed. Specific diagnostic materials and intervention techniques are explored.

SP 706 Advanced Topics in Speech Production (3.00 cr.)

Current assessment, treatment, and documentation protocols for voice and fluency disorders. Major theories are discussed in light of current research findings, with specific emphasis on clinical procedures applicable in different settings.

SP 707 Communication and Swallowing Disorders Related to Head and Neck Cancers (3.00 cr.)

Focuses on the evaluation and treatment of speech, voice, and swallowing disorders associated with oral and laryngeal cancers. Discussion of cancer, radiation therapy, chemotherapy, and laryngectomy as well as esophageal speech, swallowing, and speech difficulties. *Open to CAGS and advanced graduate students.*

THE JOSEPH A. SELLINGER, S.J.

SCHOOL OF BUSINESS AND MANAGEMENT

INTERIM DEAN: Lee D. Dahringer
OFFICE: Sellinger Hall, Room 101
TELEPHONE: 410-617-2301
E-MAIL: ldahringer@loyola.edu

ASSOCIATE DEAN, EXECUTIVE AND GRADUATE BUSINESS PROGRAMS:

John G. Moran
OFFICE: Timonium Campus, Room 08C
TELEPHONE: 410-617-5064
E-MAIL: jmoran@loyola.edu

DIRECTOR, EXECUTIVE MBA PROGRAMS:

Manette Frese Gates

DIRECTOR, GRADUATE BUSINESS PROGRAMS:

John F. White
ASSISTANT DIRECTOR, GRADUATE BUSINESS PROGRAMS: Mary Jane Ruppert
PROGRAM ADVISER: Catherine J. Kodenski
EXECUTIVE PROGRAM ASSISTANT: Janice Vohrer
PROGRAM ASSISTANT: Jean Proctor

MISSION

The Sellinger School provides academically challenging management education inspired by Jesuit traditions and values. The School embraces the principle of educating the whole person—body, mind, and spirit. The undergraduate experience helps to transform and prepare the student to learn, lead, and serve in a diverse and rapidly changing world. Graduate programs serve working professionals who seek knowledge, personal development, professional certification, and membership in the network of Sellinger School alumni/ae. Both undergraduate and graduate education proactively foster the principles of excellence and *cura personalis* in a climate that facilitates learning for each individual, develops values for a life of service, and teaches the skills of learning for life.

HISTORY

Loyola College was founded in Baltimore in 1852 by the Society of Jesus and was instilled with its core values: excellence in all things and *cura personalis*. Business education at Loyola began with undergraduate courses being offered in 1943. In 1967,

Loyola initiated its Master of Business Administration (MBA) program and in 1975, its Master of Science in Finance (MSF). In 1973, the Executive Master of Business Administration (EMBA) program was established and the MBA Fellows Program followed in 1984 in response to the needs of the region. All of these programs were the first of their kind in the state of Maryland, contributing to Loyola's long history of excellence.

In 1980, the School of Business was formed as a separate entity, being named the Joseph A. Sellinger, S.J., School of Business and Management in 1984. The Sellinger School Board of Sponsors was formed in 1981 and continues as an ongoing consultative group supporting the quality of the School. By 1990, Loyola had achieved accreditation by AACSB International – The Association to Advance Collegiate Schools of Business in its undergraduate, graduate, and accounting programs and had established a chapter of Beta Gamma Sigma, the business student honor society. The Sellinger School enjoys its reputation as the business school of choice in the Baltimore metropolitan area.

EDUCATIONAL OBJECTIVES

The Sellinger School's educational objectives are to teach students to:

- Integrate the functional areas of business for strategic, long-term planning; decision making under certainty and uncertainty; short-term planning and implementation; and organizational process and control.
- Extend a business into the global marketplace through awareness of the dominance of global competitive forces; appreciation of worldwide opportunities; understanding of complexity of functioning in the international arena; preparedness for participation in the international arena; and awareness of political and social environments.
- Make business decisions with complex, strategic approaches; the ability to garner information from data and from colleagues; analytical capability; control of decision support tools; and the ability to make reasoned judgements.

- Lead an organization with the ability to focus on mission; involvement and empowerment of others; effective teamwork; commitment to quality of process and outcome; the ability to thrive in an environment of multidimensional diversity; effective communication; and the ability to compete and move the organization forward in a competitive environment.
- Embrace change by having and sharing a vision for the organization and of the environment; the capability to evaluate developing technologies; an understanding of organizational dynamics; and continual personal development.
- Lead responsibly with developed personal ethics and a sense of justice; a balanced view of opportunity and responsibility; and an awareness of the legal and regulatory environment.

PROGRAMS

Graduate programs in business and management offered at Loyola College provide theoretical and applied education in the analytical and functional skills necessary for success in business. In-depth knowledge in many fields is available in the Executive MBA program, MBA Fellows Program, Master of Business Administration, and Master of Science in Finance. All business programs of Loyola College are accredited by AACSB International – The Association to Advance Collegiate Schools of Business.

FACULTY

The faculty of the Sellinger School and their representative departments are as follows:

ACCOUNTING

OFFICE: Sellinger Hall, Room 318
TELEPHONE: 410-617-2474

CHAIR: Ali M. Sedaghat, Associate Professor

PROFESSOR: Jalal Soroosh

ASSOCIATE PROFESSORS: William E. Blouch; John P. Guercio (emeritus); Kermit O. Keeling; Alfred R. Michenzi; Ali M. Sedaghat

ASSISTANT PROFESSOR: E. Barry Rice (emeritus)

ECONOMICS

OFFICE: Sellinger Hall, Room 318
TELEPHONE: 410-617-2357

CHAIR: Nancy A. Williams, Associate Professor

PROFESSORS: Frederick W. Derrick; Thomas J. DiLorenzo; John C. Larson (emeritus); Charles E. Scott; Stephen J. K. Walters

ASSOCIATE PROFESSORS: Arleigh T. Bell, Jr. (emeritus); John M. Jordan (emeritus); Nancy A. Williams

ASSISTANT PROFESSORS: John D. Burger; Francis G. Hilton, S.J.; Norman H. Sedgley; Marianne Ward

ADJUNCT FACULTY: G. Edward Dickey; Joseph A. Gribbin; Jordan Holtzman

FINANCE

OFFICE: Sellinger Hall, Room 218
TELEPHONE: 410-617-2818

CHAIR: Lisa M. Fairchild, Associate Professor

PROFESSORS: Harold D. Fletcher; Thomas A. Ulrich
ASSOCIATE PROFESSORS: John S. Cotner; Lisa M. Fairchild; Walter R. Holman, Jr. (emeritus); Walter Josef Reinhart

ASSISTANT PROFESSORS: Susan M. V. Flaherty; Richard A. Grayson; Joanne Li

ADJUNCT FACULTY: James R. Farnum, Jr.; Brian K. Israel; Lance A. Roth; Karen A. Schonfeld; Robert G. Sweet

INFORMATION SYSTEMS AND OPERATIONS MANAGEMENT

OFFICE: Sellinger Hall, Room 318
TELEPHONE: 410-617-2357

CHAIR: A. Kimbrough Sherman, Associate Professor

PROFESSOR: John Kamauff (visiting); Charles R. Margenthaler (emeritus)

ASSOCIATE PROFESSORS: Ellen D. Hoadley; Phoebe C. Sharkey; A. Kimbrough Sherman; Laurette P. Simmons; Leroy F. Simmons; George M. Wright

ASSISTANT PROFESSORS: Gloria Phillips-Wren; Daniel Rice; Edward R. Sim

ADJUNCT FACULTY: Lawrence E. Burgee; John W. Hebel, Jr.; William McCaffrey; John C. McFadden; Joshua J. Reiter

MANAGEMENT AND INTERNATIONAL BUSINESS

OFFICE: Sellinger Hall, Room 418

TELEPHONE: 410-617-2619

CHAIR: Raymond M. Jones, Associate Professor

PROFESSORS: Harsha B. Desai; Richard H. Franke; Peter Lorenzi; Anthony J. Mento; Tagi Sagafi-nejad (emeritus)

ASSOCIATE PROFESSORS: Christy L. DeVader; Paul C. Ergler (emeritus); Raymond M. Jones; Roger J. Kashlak

ASSISTANT PROFESSOR: Ronald J. Anton, S.J.; Michael L. Unger (visiting)

ADJUNCT FACULTY: Allan G. Bateson; Charles Fitzsimmons; Russell W. Gledhill; Mark Hubbard; Audra M. Jones; Janna Karp; Anthony J. Montcalmo; Michael Torino

MARKETING, LAW AND SOCIAL RESPONSIBILITY

OFFICE: Sellinger Hall, Room 418

TELEPHONE: 410-617-2619

CHAIR: Nan S. Ellis, Professor

PROFESSORS: Ernest F. Cooke; Nan S. Ellis; Andrea Giampetro-Meyer; John A. Gray; Patrick A. Martinelli (emeritus); Doris C. Van Doren

ASSOCIATE PROFESSORS: Gerard A. Athaide; Darlene Brannigan Smith; Sandra K. Smith Speck

ASSISTANT PROFESSORS: Richard Klink; Abhijit Roy; Suresh Sundaram

ADJUNCT FACULTY: Jeanne Allert; Lawrence E. Burgee; Paula Durand Campbell; Timothy F. Cox; John T. Everett; Barbara A. Garman; Chet A. Gooding; Barry K. Hedden; Christopher T. Helmrath; Sheryl L. Kaiser; Francis P. Martini; Anthony D. Patino; Stephen R. Robinson; Craig D. Spencer; Michael S. Tumbarello; Erika E. White

LOCATIONS

Executive and graduate programs in management are offered at the following locations:

Baltimore Campus
4501 North Charles Street
Baltimore, MD 21210-2699
410-617-5064/5067

Columbia Campus
7135 Minstrel Way
Columbia, MD 21045-5245
410-617-5064/5067/7600
D.C.: 301-617-7755

Timonium Campus
2034 Greenspring Drive
Timonium, MD 21093
1-800-221-9107, x5064/5067
410-617-5064/5067

MASTER OF BUSINESS ADMINISTRATION

OFFICE: Timonium Campus, Room 08F

TELEPHONE: 410-617-5067

DIRECTOR, GRADUATE BUSINESS PROGRAMS:

John F. White

ACADEMIC DIRECTOR: Darlene Brannigan
Smith, Associate Professor

The Master of Business Administration (MBA) is designed to prepare high potential individuals for leadership in a variety of organizational settings. The degree program is intended to develop responsible leaders with a broad, integrated understanding of the relationships and functions of organizations, the worldwide opportunities and environmental influences on the decision makers, and technologies that have evolved to facilitate decision-making. The MBA emphasizes breadth of outlook over functional specialization, but provides an opportunity for focus within the set of elective courses.

The MBA program began in 1967 and is recognized as the premier business graduate program in the region. It integrates the disciplines and prepares graduates to lead organizations in the internal and global environments of the new century. The combination of bright, experienced students and experientially grounded, highly qualified professors work within this curriculum to assure the development of leaders with values, broad understanding, and strategic vision.

The faculty of the Sellinger School are committed to instilling the following values, skills and knowledge in our students through the curriculum of the MBA program:

Values and Qualities

- Ethical Commitment
- Appreciation for Diversity
- Continuous Personal Development
- Orientation to Action

Skills and Abilities

- Leadership
- Entrepreneurial Spirit
- Communication and Negotiation
- Teamwork and Collaboration
- Critical Thinking and Rigorous Reasoning
- Analysis, Synthesis, and Decision-Making

Knowledge

- General Management
- Global Perspective
- Management by Information
- Affinity for Technology

The Joseph A. Sellinger, S.J., School of Business and Management is accredited by AACSB International – The Association to Advance Collegiate Schools of Business. Under the guidelines of AACSB International, the Sellinger School is committed to the concept and practice of “continuous improvement” of all of its academic programs. **Therefore, for the most up-to-date information on courses and programs, contact the Office of Executive and Graduate Business Programs.**

ADMISSION CRITERIA

Students are selected on the basis of two primary criteria, prior academic achievement and performance on the Graduate Management Admission Test (GMAT). The Committee on Admissions and Retention, composed of faculty from various business disciplines, is the final arbiter.

Candidates with an advanced degree may have the GMAT waived. In addition to evaluation of the GMAT score and undergraduate/graduate performance, the admissions committee considers career progress, references, professional certifications and awards, and other evidence of capacity to pursue graduate study in business.

Applicants from universities whose primary teaching language is not English are required to submit scores from the Test of English as a Foreign Language (TOEFL).

Each applicant will be notified in writing of any admissions decisions.

GMAT WAIVER POLICY

Applicants to the MBA program who meet certain provisions will be considered for admission without submitting a GMAT score. If, upon review by the Admissions Committee, the applicant is considered admissible without a GMAT score, that

requirement will be waived. The following provisions qualify an applicant for the GMAT waiver:

- Possession of an advanced degree (e.g., master's, doctorate, etc.) *or*
- Undergraduate GPA of 3.250 or higher combined with at least five years of professional work experience and a personal interview with a Loyola College Academic Adviser.

The Admission Committee reserves the right to request a GMAT score from an applicant even if these conditions are met.

APPLICATION PROCEDURES

Prospective students should file an application with the Graduate Admissions Office with the nonrefundable application fee. Optional letters of recommendation may be sent directly to the Graduate Admissions Office or included with the application. Information regarding official transcript requirements can be found in the Admissions chapter of this catalogue.

Admission materials should be submitted by:

Fall Semester (September start)	August 20
Spring Semester (January start)	December 20
Summer Sessions (June start)	May 20

International Students

Fall Semester (September start)	May 15
Spring Semester (January start)	August 15
Summer Sessions (June start)	January 15

Late applications will be considered but with no guarantee of timely decision. No student will be permitted to register for courses unless admitted.

FINANCIAL AID

Full-time students are eligible for employment within academic and administrative departments. Applications for employment opportunities can be obtained through the MBA office, by the first of the month preceding the start of each term. Student loan programs exist. Inquiries concerning loans should be directed to the Financial Aid Office, 410-617-2576.

PREREQUISITES AND BASIC COMPETENCIES

An entering student must have a bachelor's degree or its equivalent from a regionally accredited college or university and should be able to communicate well both orally and in writing. No prior business courses are required. However, prior business courses may reduce the number of core courses required to complete the MBA.

An entering student in the MBA program should have facility in algebra and graphing of mathematical functions, graphic interpretation, and probability. Proficiency in these areas will be assumed with recent college or graduate level credit (*B* or better if a single course) in finite mathematics, precalculus, or mathematical models for business. Proficiency may also be established through GMAT performance. Loyola offers a course, Finite Mathematics and Calculus Applied to Business Problems (GB 500), which is specifically geared to the incoming graduate student.

Courses in the MBA program use computer software for presentation and analysis. Students can expect to receive assignments using spreadsheets, and they may also be required to employ specialized PC software, CD or on-line databases, or mainframe systems. Students should be able to use spreadsheets and word processing software. Introductory and advanced help courses are offered without charge through Technology Services, 410-617-5555. On-line services, available through the College's computing facilities are generally user-friendly and can be accessed by individuals without extensive background.

DEGREE REQUIREMENTS

Requirements for the MBA include 30 credits beyond the core. All upper-level (700–899) courses are three credits. Courses in the core (600–699) vary in number of credits. Waivers may be granted for previous academic experience (see The MBA Core). Of the 30 credits at the upper level, at least 24 must be taken in the Loyola MBA program.

FAST TRACK OPTION

Students entering the MBA program with a recent bachelor's degree in business administration or related field or with selected business classes may

complete the MBA program with as few as ten courses. Please call the Graduate Business Programs Office at 410-617-5067 for further details on this exciting option.

THE MBA CORE

Graduate business programs may be pursued by students with either business or nonbusiness undergraduate degrees. Once admitted, they will be enrolled in graduate courses to develop an integrated understanding of the complex environment of the manager. The core provides a knowledge, skill, and vision base for the pursuit of upper level courses recognized by the AACSB International – The Association to Advance Collegiate Schools of Business. Each student must be waived from or have substantially completed core courses before proceeding to upper-level coursework. Waivers are granted when a student successfully completes courses at the undergraduate (*C* or better) or graduate (*B* or better) level which are equivalent to the core requirements. Upon admission, each student's transcripts will be reviewed for core waivers.

Core Courses

- GB 500 Finite Mathematics and Calculus
Applied to Business Problems
- GB 600 Quantitative and Statistical
Decision-Making (3 credits)
- GB 611 Global Economic Analysis (3 credits)
- GB 612 Legal and Regulatory Issues*
(1.5 credits)
- GB 613 Financial Reporting and Analysis*
(1.5 credits)
- GB 614 Human Behavior and Organizational
Effectiveness (3 credits)
- GB 615 Managerial Accounting* (3 credits)
- GB 616 Marketing Management (1.5 credits)
- GB 617 Global Enterprise (3 credits)
- GB 618 Operations Management (1.5 credits)
- GB 620 Fundamentals of Finance (1.5 credits)

* In order to qualify to sit for the CPA Exam, the following core course substitutions should be made for students concentrating in accounting (see Concentration section for more detail):

- GB 603 Financial Accounting (for GB 613)
- GB 661 Financial Accounting Problems I
(for GB 615)

GB 774 Business Law: Commercial
Transactions (for GB 612)

REQUIRED COURSES: THE VALUE-ADDED ORGANIZATION

These courses are designed to address both the value chain and the responsibility of leaders to guide the organization responsibly. The organization must anticipate market needs and gather the human, material, information, and financial resources to carry out its mission. The horizontal linkage from resources to the client/customer has replaced the old hierarchical or authority structure that characterized organizations. This shift creates an opportunity to involve all members of the organization in the responsible enactment of its mission.

Students who have completed or waived the Core requirements take a minimum of 30 semester credits of advanced graduate courses. The program includes six required courses and four electives. Three of the electives may be used to form a concentration. The other course should be chosen outside of that field to provide breadth of understanding.

The requirements include: a value and leadership focused course (GB 700); a four course sequence (GB 701, GB 702, GB 703, GB 704) which develops the relationships within the value chain of the organization; and a capstone course (GB 709) that integrates the functional areas in a case course on policy and strategies, as follows:

- GB 700 Ethics, Moral and Social Responsibility
(3 credits)
- GB 701 Operations: Strategy, Products,
Processes (3 credits)
- GB 702 Marketing Strategy (3 credits)
- GB 703 Financial Strategy (3 credits)
- GB 704 Information Technology for
Management (3 credits)
- GB 709 Business Strategy (3 credits)
- GB Electives (4 courses/12 credits; may include a
concentration)

CONCENTRATIONS, SPECIALIZATIONS, AND ELECTIVES

The MBA program includes four elective courses (12 credits) at the upper level. The electives may be chosen with no pattern; they may conform with

a designated concentration; or they may follow a theme of the student's choosing. No prior approval is necessary to choose a concentration. To provide breadth, concentrations are limited in length to assure that at least 18 of the 30 upper-level program credits lie outside of a departmental discipline.

Accounting Concentration

Over the last decade, the accounting profession has become more complex and challenging. In recognition of this growing complexity, the accounting profession has mandated 150 hours of education for candidates to sit for the CPA Exam. In Maryland, the 150-hour requirement went into effect July 1, 1999.

The Department of Accounting has developed an MBA accounting concentration for students who have a non-accounting undergraduate degree but are interested in the accounting profession and plan to sit for the CPA Exam. Concentration courses include the following:

- GB 761 Financial Accounting Problems II
- GB 762 Cost Accounting
- GB 763 Federal Income Taxation
- GB 765 Auditing

Note: Students who plan to sit for the CPA Exam should take Business Law: Commercial Transactions (GB 774). Students may substitute electives if above courses were covered in prior academic work.

MBA Program for Accounting Students Completing the 150-Hour Requirement

Loyola College offers graduates of undergraduate accounting programs from all colleges and universities the opportunity to earn an MBA with one additional year of coursework. This program is specifically designed to meet the 150-hour requirement to sit for the CPA Exam. This program can be flexible and specifically tailored to each student's needs and preferences.

Students in this program take six required 700-level courses (GB 700, GB 701, GB 702, GB 703, GB 704, GB 709). Students may select a specialization other than accounting by taking three electives in any of the areas listed below.

Students graduating from an undergraduate accounting program who wish to complete their 150-hour requirement through Loyola's MBA or MSF program are encouraged to discuss their options for early admission with the graduate business programs director. Qualified candidates may be permitted to enroll in MBA course(s) as early as their senior year of undergraduate studies.

Because the requirements to sit for the CPA Exam are evolving in many states, students should contact their adviser to obtain information on how to build a program to meet their needs.

Business Economics Specialization

Select three of the following courses:

- GB 719 Independent Study
- GB 780 Pricing Strategy
- GB 781 Monetary and Fiscal Policy Analysis
- GB 782 International Political Economy
- GB 786 Electronic Commerce: The New Economic Context
- GB 789 Special Topics in Business Economics

E-Business Specialization

To meet the dynamic needs of today's marketplace, the College has developed a specialization in e-business:

- GB 745 Electronic Commerce Marketing
- GB 755 Applied Electronic Business Strategies, Implementations, and Technologies
- GB 786 Electronic Commerce: The New Economic Context

Finance Specialization

- GB 722 Investments Management

And select two of the following courses

- GB 720 Financial Theory
- GB 723 Portfolio Management
- GB 724 Financial Markets and Instruments
- GB 725 Financial Institutions
- GB 726 International Finance
- GB 729 Financial Modeling
- GB 820 Advanced Financial Analysis
- GB 821 Financial Policy

- GB 822 Fixed Income Securities
- GB 823 Derivatives and Risk Management
- GB 825 Special Topics in Finance

General Business Specialization

General Business is the designation for students who do not choose one of the above concentrations. Students may choose to develop their own focus. Suggested focus areas are Entrepreneurship and Family Business, or Management of Projects.

Health Care Management Specialization

After consultation with a program adviser, students may take any three of the following courses offered at Loyola College or at least one course at Loyola with the remaining credits taken at area institutions also offering healthcare curricula: (Courses at other institutions require prior approval from the program director.)

- GB 712 Health Care Financing
- GB 713 Special Topics in Health Care Management
- GB 719 Independent Study
- GB 743 Health Care Marketing

International Business Specialization

Select three of the following courses:

- GB 719 Independent Study
- GB 726 International Finance
- GB 748 International Marketing
- GB 782 International Political Economy
- GB 795 Special Topics in International Business

Management Specialization

Students may develop focus areas such as Leadership and Management; Managing for World Class Quality; and Managing Human Resources. Select three of the following courses:

- GB 718 Entrepreneurship
- GB 719 Independent Study
- GB 778 Employment Law
- GB 791 Leadership
- GB 792 Human Resources Management
- GB 793 Leading Organizational Change
- GB 794 Managing in Service Organizations

- GB 797 Special Topics in Management
- GB 895 Quality Management
- GB 896 Power and Influence
- GB 897 Negotiation and Dispute Resolution

Management Information Systems Specialization

Students may develop focus areas in software application or knowledge management and decision-making by selecting the appropriate courses. See below for details.

Select three of the following courses:

- GB 719 Independent Study
- GB 730 Decision-Making in the High Technology Environment
- GB 752 Information Systems Analysis and Design
- GB 753 Advanced Systems Analysis and Design
- GB 754 Information Systems Security
- GB 755 Applied Electronic Business Strategies, Implementations, and Technologies
- GB 756 Database Design and Implementation
- GB 757 Business Support Technologies
- GB 758 Object-Oriented Programming in Java
- GB 759 Special Topics in Management Information Systems
- GB 895 Quality Management

Software Application Focus: Prepares students to manage and lead information technology software projects. The focus includes: GB 752, GB 753, GB 758, and GB 759 (Topic: Information Technology Project Management).

Knowledge Management and Decision-Making Focus: Prepares students to use information productively in knowledge building, planning, and decision-making. The focus includes: GB 730, GB 756, GB 757, and GB 759 (Topic: Technology in the Third Millennium or Management of Global Information Technology).

Marketing Specialization

- GB 742 Advanced Marketing Strategy
(should be taken after at least one of the courses below)

Select two of the following courses:

- GB 719 Independent Study
 GB 743 Health Care Marketing
 GB 744 New Product Development and Management
 GB 745 Electronic Commerce Marketing
 GB 746 Promotional Strategy
 GB 747 Special Topics in Marketing
 GB 748 International Marketing
 GB 780 Pricing Strategy

COURSE DESCRIPTIONS

GB 500 Finite Mathematics and Calculus

Applied to Business Problems (3.00 cr.)

Reviews and develops the mathematical tools needed for graduate level business course work. Students learn algebraic techniques as applied to business disciplines and to relate basic tools of calculus to business decision-making. Topics include functions, systems of equations, probability, financial applications, differentiation, and integration.

GB 600 Quantitative and Statistical

Decision-Making (3.00 cr.)

Prerequisite: GB 500 or equivalent, basic personal computer skills. Develops a systematic approach to problem solving through the application of quantitative models and statistical methods for decision-making. Students learn to make decisions under certainty, risk, and in stochastic settings; use quantitative methods of algebraic optimization, linear programming, and decision matrices; and statistical methods including survey sampling, multiple regression, forecasting, estimation, and hypothesis testing. Procedures are demonstrated through personal computer applications.

GB 603 Financial Accounting (3.00 cr.)

Introduces financial accounting concepts and methodologies employed in the preparation and interpretation of the basic financial statements. Topics cover the accounting environment; the accounting cycle; accounting for assets, liabilities, and owners' equity; and preparation of financial statements; internal control and accounting systems. Students learn to prepare and interpret financial statements.

GB 611 Global Economic Analysis (3.00 cr.)

Prerequisite: GB 500 or equivalent. Develops analytic tools for the MBA program and for predicting the economic behavior of individuals and firms, industries, sectors, national economies, and international exchange systems. Students learn supply and demand analysis, monopoly

and competition analysis, pricing and output policy, and economic growth and development of nations. Students are exposed to the methods and institutions related to monetary and fiscal policies. Coverage includes case studies of important economies, current international economic crises, NAFTA and other trade agreements, European common currency adoption problems, economies failing to grow with the rest of the world, patterns of global economic growth, exchange rate regimes, monetary control methods, taxation, incentive systems, the role of individual preferences and technology in market supply and demand analysis.

GB 612 Legal and Regulatory Issues (1.50 cr.)

An introduction to the American legal system focusing on the legal concepts and principles used to determine individual and organizational accountability, including those which apply to agency, forms of business organizations, corporate governance, and regulatory law relevant to an organization's roles and relationships (employer-employee, issuer-investor, seller-buyer, competitors, environment).

GB 613 Financial Reporting and Analysis (1.50 cr.)

Focuses on the analysis and interpretation of financial statements. Students learn to construct a basic analysis of financial statements and needs of external users for accounting information. Topics include the accounting environment, accounting principles, and issues regarding preparing and presentation of accurate financial statements.

GB 614 Human Behavior and Organizational Effectiveness (3.00 cr.)

Examines the impact of human behavior on organizational effectiveness using a combination of case studies and discussion. Considers global factors and cultural diversity with regard to world-class quality; team work; attitude toward work; satisfaction and commitment; building and exercising organizational power; the role of leadership; sustaining motivation; participatory decision-making; and the process for change, development, and continuous improvement.

GB 615 Managerial Accounting (3.00 cr.)

Prerequisite: GB 603 or GB 613. Focuses on the use of accounting information by management in making strategic decisions. Students learn to understand and use various analytical tools for profit planning, control, and performance evaluation. Covers cost concepts, analysis, allocation; cost-volume-profit analysis; product costing systems, including activity-based costing; standard costs;

responsibility accounting and performance measurement; capital budgeting, statement of cash flow, and financial statement analysis.

GB 616 Marketing Management (1.50 cr.)

Prerequisite: GB 611. Introduces students to a basic understanding of marketing's role in accomplishing an organization's mission. Topics include the marketing concept, segmentation, the marketing mix, product development, promotion, distribution, pricing, and using information to solve problems and make decisions.

GB 617 Global Enterprise (3.00 cr.)

Prerequisite: GB 614, GB 616. Focuses on the influence of international political, economic, social, cultural, legal, technological, and demographic external environments on cross-border business transactions and international financial and trade frameworks. Combines case study, lectures, and applications. Students learn to integrate the functional areas of a multinational entity, including strategy, marketing, finance, human resources, and production into the international setting.

GB 618 Operations Management (1.50 cr.)

Prerequisite: GB 600. Focuses on strategic and operating decisions involved in the creation of value through conversion of resources to goods and services. Strategic alternatives are considered for scale, scope (product line and geographic), location, operating focus, and quality level. Operating decisions and analytical capabilities focus on productivity and quality enhancement. Students learn to outline the environmental and operational challenges in the formation of an organization and the integrative and productivity decisions for an existing entity.

GB 620 Fundamentals of Finance (1.50 cr.)

Prerequisite: GB 600, GB 611, GB 613. Provides students with the basic finance knowledge needed for further study. Emphasis is placed on the role of finance within a corporation. Topics include financial statement analysis and planning, time value of money, valuation principles, capital budgeting, cost of capital, capital structure, and securities valuation.

GB 661 Financial Accounting Problems I (3.00 cr.)

Prerequisite: GB 603 or GB 613. Focuses on the interpretation and preparation of financial statements. Topics include detailed review of accounting cycle; the measurement and reporting problems of various assets, liability, and equity accounts; revenues and expense; and interpretation and preparation of financial statements. Students learn to prepare, understand, and interpret finan-

cial statements. Reference made to pronouncements of the AICPA, FASB, SEC, and other authoritative sources.

GB 700 Ethics, Moral and Social Responsibility (3.00 cr.)

Prerequisite: All core courses. Focuses on alternative perspectives on business ethics and the moral and social responsibilities of business. Students learn to relate ethics, moral, and social responsibility to contemporary business while engaging in the process of individuation and reconciling their personal beliefs with the beliefs of their organization. Topics include ethical styles; alternative perspectives on property; profit and justice; and issues related to corporations, persons, and morality.

GB 701 Operations: Strategy, Products, Processes (3.00 cr.)

Prerequisite: All core courses. Examines operations management as the analysis, planning, communication, coordination, and control that ensure and enhance the creation of value within an organization's goods and services. Students investigate organizations' efforts to achieve world-class operations and develop keen understanding of the interplay of operations strategy with the strategy of the encompassing enterprise. Topics include continuous improvement and process innovation; process analysis, simulation, and measurement; implementation throughout the enterprise; and the effects of rapidly changing global competition, electronic communication, and technologies.

GB 702 Marketing Strategy (3.00 cr.)

Prerequisite: All core courses. Examines market strategy development under conditions of environmental uncertainty and across the product life cycle. Introduces methodologies for gauging a changing environment using trend analysis and scenario building and applies other analytical tools which can help in making decisions at various levels of uncertainty and competitive intensity. Students learn to make marketing decisions by offering a more complete and sophisticated understanding of uncertainty and its implications for market strategy. Topics include the fundamentals of strategy; marketing interrelationship with corporate, business level, and other functional strategies; target marketing and brand management; value innovation and new product development; and market strategies in growth, mature, and declining industries.

GB 703 Financial Strategy (3.00 cr.)

Prerequisite: All core courses. Introduces students to financial theories and their applications within a corporate context. Students learn financial decision-making from the viewpoint of a financial manager. Consideration is given to how financial decisions affect other areas of the firm and its stakeholders. Topics include risk and return, capital budgeting, valuation, capital structure, dividend policy, financial markets, international finance, financial statement analysis, forecasting, and financial ethics. In addition to assigned reading and lectures, some cases may be used to develop an understanding of financial axioms and tools and their appropriate application.

GB 704 Information Technology for Management (3.00 cr.)

Prerequisite: All core courses. Surveys the fundamentals of information technology and telecommunications from a management point of view and provides the foundation for follow-on courses in strategy and e-business. Topics include systems concepts and value, data management, systems analysis and design, telecommunications, distributed processing, societal and legal issues, and international aspects. Students gain a strong information technology knowledge set and an appreciation for information technology as process enabler and strategic facilitator in the Internet age.

GB 709 Business Strategy (3.00 cr.)

Prerequisite: GB 700, GB 701, GB 702, GB 703, GB 704. Prepares students to think and act like a general manager and develops a general management perspective. Focuses on the functions and responsibilities of executives and their decisions which affect the character of the total enterprise. Students learn to define the top management perspective and its strategic consequences; develop proficiency in meeting the general management responsibility in strategy formulation, implementation, and evaluation; understand the importance of context in formulating strategy; design and develop various functional plans for an organization; and initiate a strategy-making process. Topics include industry analysis; organizational strategy, systems, and culture; and the role of a general manager.

GB 712 Health Care Financing (3.00 cr.)

Prerequisite: GB 611, GB 615. Examines the basic concept and models of health economics with emphasis on the financing of health care. Students learn to analyze and evaluate health care financing arrangements. Topics include pluralistic approaches for public and private financing systems as well as current policy issues.

GB 713 Special Topics in Health Care Management (3.00 cr.)

Prerequisite: All core courses. Provides students with the opportunity to study the most current readings, discussions, and experiences in the field of health care management. Group projects, papers, and presentations may be used. Topics may include current and global issues in health care.

GB 718 Entrepreneurship (3.00 cr.)

Prerequisite: All core courses. Develops the strategies and techniques and explores the attitudes relevant to creating and developing new ventures in a lively environment and a forum that support student entrepreneurs. Students improve their individual talents in the quest of a vision or an idea and learn to pursue the vision of developing a business plan. Topics include business plan development; issues concerning managing growth and small businesses; and social responsibility and responsiveness of a small business.

GB 719 Independent Study (1–3.00 cr.)

Prerequisite: All core courses. Written permission of the instructor and the department chair is required. Under the supervision of a faculty sponsor, students have an opportunity to pursue independent research projects based on a topic of mutual interest to their sponsor and themselves. A research paper is required.

GB 720 Financial Theory (3.00 cr.)

Prerequisite: GB 703. Focuses on the theoretical models underlying investor's portfolio decisions, the investment and financing decisions of firms, and securities pricing. Financial theories are presented in analytical frameworks using statistics and financial mathematics. Topics include decision-making under certainty and uncertainty, capital budgeting, market equilibrium, contingent claims, capital structure, dividend policy, and mergers and restructuring.

GB 722 Investments Management (3.00 cr.)

Prerequisite: GB 703. Provides students with the conceptual framework to develop a lifelong philosophy of investing. Students learn to evaluate the investment merits of equity and fixed income securities. Topics include common stock valuation, fixed income securities analysis, options valuation, and portfolio management.

GB 723 Portfolio Management (3.00 cr.)

Prerequisite: GB 722. Focuses on modern portfolio theory and how it applies to the pragmatic world by managing a portfolio under live market conditions and surf-

ing the net to gain investment information. Students learn to understand theoretical concepts and pragmatic aspects of portfolio management, including international aspects, ethics, and social responsibility. Topics include portfolio construction, analysis, and evaluation; capital market theory; arbitrage pricing theory; security valuation; market efficiency; derivatives; valuation and strategy; international investing; and other investment alternatives such as real estate and collectibles.

GB 724 Financial Markets and Instruments (3.00 cr.)

Prerequisite: GB 703. Surveys money and capital markets in order to determine their functions and interrelations in the national economy. Examines the interaction of key institutions and monetary and fiscal policies in the financial markets. Students learn to explain the determination and structure of interest rates, risk structure, and the regulatory environment, including the Federal Reserve System. Topics include the determination of interest rates, the term structure of interest rates, risk structure, money markets, bond markets, and mortgage markets.

GB 725 Financial Institutions (3.00 cr.)

Prerequisite: GB 703. Provides students with an understanding of the organization and functioning of the financial services industry. Students learn the operating characteristics of a financial institution and the social and economic roles of the financial services industry. Topics include the managerial problems and perspectives of planning; pricing of financial assets and liabilities; liquidity; capital; and international markets.

GB 726 International Finance (3.00 cr.)

Prerequisite: GB 703. Focuses on the theory of the firm as applied in a global decision framework with emphasis on a detailed examination of foreign exchange markets. Students learn to apply financial analysis and decision-making techniques in an international setting. Topics include direct foreign investment; foreign exchange risk; country risk analysis; multinational debt and equity markets; reporting results to investors and tax authorities; international aspects of investment portfolios; and the ethical considerations of transcultural commerce.

GB 729 Financial Modeling (3.00 cr.)

Prerequisite: GB 722. Presents the paradigms of finance through the use of state-of-the-art technology. Emphasis on spreadsheet programming develops an understanding of financial models and the ability to work with those models. Students learn to use alternative financial models to analyze various decision-making oppor-

tunities. Topics include advanced time value of money issues; duration and interest rate risk management; international currency risk; options pricing; hedging strategies; modern portfolio management; artificial intelligence models in bond rating and credit evaluation; and databases. The Internet is used extensively as resource for market data and testing the models. Provides students with background to read leading finance journals and keep up to date on financial tools and technologies.

GB 730 Decision-Making in the High Technology Environment (3.00 cr.)

Prerequisite: All core courses. Emphasizes decision support activities that combine computers, data communications, and decision technologies to facilitate strategic business decisions. Students learn to effectively identify, design, and implement integrated technology solutions to business problems. Previous student projects have been based on the analysis of a wide variety of their own management issues including decisions relating to new ventures, process improvement, new products/services, facility siting, acquisitions, personnel planning, and capital expenditures. Major topics include the scope of decision analysis technologies and their usefulness for improving strategic business decisions, the formulation of objectives, the development of alternatives, multiobjective value analysis, and simulation.

GB 742 Advanced Marketing Strategy (3.00 cr.)

Prerequisite: GB 702, one other marketing concentration course. Focuses on marketing decision-making using qualitative and quantitative tools. Students learn to solve marketing problems as they relate to marketing research, product, promotion, distribution, and pricing strategy. Topics include strategic marketing management, financial aspects of marketing management, opportunity analysis, market targeting, strategy reformulation, comprehensive marketing programs.

GB 743 Health Care Marketing (3.00 cr.)

Prerequisite: GB 702. Examines the basic concepts of marketing as they pertain to the health care industry. Students learn the marketing challenges facing this industry and learn to be able to contribute to a health care environment. Topics include the industry environment; the needs of different market segments; the development of marketing strategy; and the ethical issues related to health care marketing.

GB 744 New Product Development and Management (3.00 cr.)

Prerequisite: GB 702. Studies the theoretical underpinnings of new product development in a variety of industries. Students learn to describe the new product development process; identify the components of a new product development strategy; and structure their organizations to encourage creativity and innovation. Students use multivariate statistical techniques to evaluate the marketplace attractiveness of proposed new products. Topics include technology-based product development, organizational learning, and new product acceleration.

GB 745 Electronic Commerce Marketing (3.00 cr.)

Prerequisite: GB 702. Develops strategies to meet the new expectations of the electronic marketplace which include the ability to purchase on-line, interact electronically, and be part of a community in cyberspace. Students learn to relate the traditional four Ps of marketing to the expanded potential of electronic commerce and develop an electronic commerce marketing plan for either a C2B or a B2B environment. Topics include targeting the most profitable customer, providing a total experience, customizing for success, fostering community, one-to-one marketing, and permission marketing.

GB 746 Promotional Strategy (3.00 cr.)

Prerequisite: GB 702. Examines the components of marketing communications. Students learn to put an integrated marketing program into practice to address the diverse marketplace with a customer orientation. Topics include planning the communications program; capturing imagination in creative execution; measuring consumer response; overcoming barriers; and analyzing case histories.

GB 747 Special Topics in Marketing (3.00 cr.)

Prerequisite: GB 702. Provides an opportunity for the student to conduct intensive study and/or research in a selected industry or of a contemporary marketing topic. Readings, discussions, projects and presentations are core components. Topics may include brand management, technology and innovation management, sales management, and Internet marketing.

GB 748 International Marketing (3.00 cr.)

Prerequisite: GB 702. Focuses on the application of basic marketing concepts and principles to international marketing situations. Students learn to describe the international marketing context, identify adaptations in data collection/analysis, product, price, promotion, and distri-

bution. Topics include cultural, legal, financial, and organizational aspects of international marketing.

GB 752 Information Systems Analysis and Design (3.00 cr.)

Prerequisite: GB 704. Examines the phases of the system development life cycles as well as the methodologies and techniques used in those phases. The management of system development phases is reviewed in detail, and the organizational issues involved in system development and implementation is addressed. Object-oriented and structured approaches to system development are reviewed. Prototyping, joint-application development (JAD), rapid application development (RAD), and other techniques for system development are studied. Modeling concepts and diagrams are discussed, and the unified modeling language (UML) is examined. The use and impact of CASE tool technology is also examined.

GB 753 Advanced Systems Analysis and Design (3.00 cr.)

Prerequisite: GB 752 or written permission of the instructor is required. Examines advanced issues in system analysis and design. Emphasis is placed on learning the unified modeling language (UML) and the implementation of UML modeling with CASE tool technology. Object-oriented (OO) methodologies like the rational unified process (RUP) are examined and reviewed. Techniques in OO business modeling are reviewed, as well as issues in OO metrics and OO project management. Management strategies for designing and implementing an OO project are discussed. Issues in OO design and compatibility are addressed with a discussion of object management group (OMG) standards.

GB 754 Information Systems Security (3.00 cr.)

Prerequisite: GB 704. Surveys current concepts and trends in information systems security for policy makers. Provides students with the foundation for assessing risk associated with accidental and intentional breaches of security. Uses readings, lectures, discussions, and exercises to promote understanding of securing information in the Internet age. Topics include legal issues, risk management, disaster preparedness/recovery, training and awareness, policies and procedures, physical security, public key infrastructure and encryption, industrial espionage, privacy, and software licensure compliance.

GB 755 Applied Electronic Business Strategies, Implementations, and Technologies (3.00 cr.)

Prerequisite: GB 704. Focuses on the deployment of Internet and web-based applications. It concentrates

on empowering students with the knowledge to create a complete web solution through hands-on development using the latest software and web technologies. Topics include Internet architecture, information architecture, graphic design and web usability, database design, and building truly dynamic webpages using technologies such as markup language scripts, Dreamweaver, Cold Fusion, and Active Server Pages. Cutting edge technologies such as wireless application protocol, Java, XML, and Flash are also discussed.

GB 756 Database Design and Implementation (3.00 cr.)

Prerequisite: GB 704. Provides an analysis of database systems within the broader scope of information systems. An intensive, introductory course in database design concepts that includes the building and using of systems. The roles of the database as a corporate resource and the role of the database administrator as the steward of that resource are examined. Management issues such as security, efficiency, and effectiveness are included. The relational model is used as the paradigm for theory and practice. Both Oracle's SQL and Access' QBE provide a great deal of hands-on activity.

GB 757 Business Support Technologies (3.00 cr.)

Prerequisite: GB 704. Provides business professionals with the concepts and tools required to perform knowledge work—human mental work to generate useful information using personal computers or small office technologies. Performing this work requires that knowledge workers be able to obtain information and use it to design and carry out analytical and information processing activities. Students learn to describe the role of information management in productivity, explain the data and communication requirements of knowledge work, and define and develop an appropriate individual information technology infrastructure. Topics include individual and collaborative productivity tools, end-user applications in organizations, individual knowledge work, and collaborative knowledge work. Students are required to develop and implement a personal productivity tool by applying an information system application to their work.

GB 758 Object-Oriented Programming in Java (3.00 cr.)

Prerequisite: GB 704. A first course in computer programming using the Java language. Standard aspects of traditional programming—the edit/compile/run/debug cycle, data types, control structures, functions, console and file I/O, and sorting—are covered. Modern programming practices such as structured programming, strings, applets, network communication, message-driven

programming versus procedural programming, encapsulation, inheritance, polymorphism, and reuse based on software objects are also addressed.

GB 759 Special Topics in Management Information Systems (3.00 cr.)

Prerequisite: GB 704. Provides students with the most current readings, discussions, and experiences in the field of Information Systems Management. Group projects, papers, and presentations may be used to share information on the topic. The particular topic will be identified in the course schedule for the semester in which the class is offered. Topics may include human-computer interface, management of the I/S function, total quality management, and IT Project Management.

GB 761 Financial Accounting Problems II (3.00 cr.)

Prerequisite: GB 661. Builds upon areas covered in GB 661, and deals with problems in accounting for corporate securities, treasury stock, pension plans, leases, revenue recognition issues, income tax allocation, investments, and accounting changes. Students acquire a comprehensive understanding of financial statements. Pronouncements of the AICPA, FASB, SEC, and other authoritative sources are an integral part of the course.

GB 762 Cost Accounting (3.00 cr.)

Prerequisite: All core courses or written permission of the instructor is required. Deals with cost measurement, classification, and recording for external reporting and internal decision-making. Topics include an in-depth coverage of cost behavior, cost-volume-profit analysis, cost accounting systems, budgeting, variance analysis, cost allocation, capital budgeting, and relevant cost for decision-making. Students learn to identify, classify, and apply cost accounting techniques in business applications.

GB 763 Federal Income Taxation (3.00 cr.)

Prerequisite: All core courses. Introduces the concepts and principles of the federal income taxation of individuals. Students learn to apply the tax concepts and principles in basic tax preparation. Topics include the determination of gross income, business and nonbusiness deductions, property transactions, application of tax software, and an introduction to tax research. The Internal Revenue Code and Regulations are an integral part of this course.

GB 764 Federal Entity Taxation (3.00 cr.)

Prerequisite: GB 763. Advanced study of federal income taxation involving corporations and flow-through entities (partnerships; subchapter S corporations). Topics include

formation, operation, and distributions from these entities. Includes basic tax research. The Internal Revenue Code and Regulations are an integral part of the course.

GB 765 Auditing (3.00 cr.)

Prerequisite: GB 761. Focuses on the basic concepts of auditing in a manual and computer-based accounting system and covers the generally accepted auditing standards and procedures. Students develop the judgement and decision-making skills needed to function as auditors in the complex environment of business and the basic skills to research current issues impacting the audit profession. Major topics include ethical responsibilities, internal control evaluation, evidence gathering, reporting standards, and basic auditing concepts.

GB 770 Special Topics in Law and Social Responsibility (3.00 cr.)

Prerequisite: All core courses, GB 700. Students develop an understanding of alternative perspectives on a specific topic, study this topic in depth, and engage in personal reflection about the topic. Topics may include corporate accountability, leadership, teamwork, law and society, and legal responses to inequality in the workplace.

GB 774 Business Law: Commercial Transactions (3.00 cr.)

Considers the legal environment of business, including the principal characteristics of the American legal system, the concepts and principles used to determine individual and corporate accountability, and the regulatory system within which businesses operate. Treats aspects of the commercial transaction including contract law, the commercial code (UCC: sale of goods, negotiable instruments, secured transactions, bank collections and deposits), surety, and bankruptcy law. *Recommended specifically for students who wish to sit for the CPA Exam and should be taken by those students in lieu of GB 612.*

GB 777 Securities Law (3.00 cr.)

Prerequisite: All core courses. Covers knowledge of law and professional responsibilities necessary for investment managers, investment advisers, and financial planners. Students learn to demonstrate an informed understanding of the U.S. legal framework, the principal legal requirements for the issuance and trading of securities, and the regulation of finance professionals; to use AIMR Standards of Practice to articulate professional responsibilities and resolve ethical issues; and to use a variety of sources (print, electronic, practitioner) to research/report on questions about the law and ethics for finance practitioners. Topics include state law governing busi-

ness associations; federal securities law governing registration, reporting, inside trading, proxy solicitation, mergers, and licensing and regulation of finance practitioners; and AIMR Standards of Practice.

GB 778 Employment Law (3.00 cr.)

Prerequisite: All core courses. Covers the basic legal concepts and principles relevant to the employment relationship, including common law, state and federal statutory law, and constitutional law. Explores their relevance for employment policies and practices. Also covers multinational legal considerations relevant to employment.

GB 780 Pricing Strategy (3.00 cr.)

Prerequisite: GB 611. Develops tools that can be used to devise wealth-maximizing pricing programs and to integrate pricing with production considerations. Students learn to acquire and analyze data useful in gauging consumers' sensitivity to price; implement a variety of sophisticated pricing tactics; and appreciate the influence of market structure on pricing behavior. Topics include costs and pricing decisions, demand analysis, segmented pricing, competitive advantage, and legal and ethical issues in pricing.

GB 781 Monetary and Fiscal Policy Analysis (3.00 cr.)

Prerequisite: GB 611. Analyzes economy-wide forces, policies, and institutions that directly determine and otherwise influence long-term economic trends and short-term fluctuations. Students are exposed to contemporary macroeconomics; prepared to discuss economic policies in professional settings; and prepared to begin studying macroeconomics and to engage in professional policy analysis. Topics include the key ideas of Nobel Prize winners; national income and product accounting; balance of payments; unemployment; employment; labor force participation; international trade and finance; monetary and fiscal policies; facts and theories of long-term economic growth; facts and theories of business cycles; the powerful role of expectations and policy credibility; and modern electronic connections among all types of international markets.

GB 782 International Political Economy (3.00 cr.)

Prerequisite: All core courses. Examines the theory and practice of international exchange and the sources of economic prosperity across nations from an economic perspective. Topics include the political economy of trade barriers; analysis of unfair trade practices; foreign exchange markets; demographics and economic growth; and property rights and trade institutions in other economies.

GB 786 Electronic Commerce:**The New Economic Context (3.00 cr.)**

Prerequisite: All core courses. Develops student understanding of the economic context of the rapidly expanding use of telecommunications technology and the Internet in business applications. Students learn how this evolution is changing the interface between businesses as well as consumers and businesses, affecting efficiency and competition. Topics include the role of electronic commerce in promoting efficiency and lowering transaction costs; the effect this has on the scale, scope, and boundaries of the firm; the effect electronic commerce has on productivity and growth through adjustments in division of labor; the effects electronic commerce has on global integration, competition, and price; and its role in transforming the workplace, employee skills, and the relationship between managers and labor.

GB 789 Special Topics in Business Economics (3.00 cr.)

Prerequisite: GB 611. Focuses in depth upon selected topics in contemporary business and financial economics, each semester's topics being based on student demand. Students acquire expertise in applying skills acquired in earlier courses to issues within the special topic area. Topics may include industry studies; modern manufacturing economics; modern environmental economics and management; advanced topics in labor and managerial economics; health systems economics; and applied econometrics.

GB 791 Leadership (3.00 cr.)

Prerequisite: All core courses. Students examine their leadership styles and their experiences as they take part in intensive group problem-solving exercises. Develops self-awareness and insight into the interpersonal skills needed to be an effective leader.

GB 792 Human Resources Management (3.00 cr.)

Prerequisite: All core courses. The flow of human resources into and through the organization including recruitment, selection, training, performance evaluation, outplacement; organizational reward systems involving both intrinsic and extrinsic rewards; the use of teams in work system design; and the processes by which employees influence organizational goals and operations.

GB 793 Leading Organizational Change (3.00 cr.)

Prerequisite: All core courses. Develops vision and leadership concepts as key requirements for leading change in all types of organizations. Prepares the student to play the role of strategist, implementor, or recipient, depending on the change situation. Students develop

an understanding of the politics of change; the development of a working vision; the dynamics and skills involved in leading and implementing change; and a sensitivity to the views and needs of the recipients of change. Topics include managing teams, analyzing appropriate change strategies, leading and implementing change, and developing ethical perspectives of the change process.

GB 794 Managing in Service Organizations (3.00 cr.)

Prerequisite: All core courses. Emphasizes issues which represent particular challenges for managers of service-producing organizations by focusing on the service-profit chain. Students learn to improve service quality by understanding customer needs, expectations, and competencies; select and train workers; and integrate marketing and operations to coordinate the service management system. Topics include determining the strategic service vision, designing the service delivery system, managing for quality and productivity, achieving total customer satisfaction, and developing breakthrough service operations.

GB 795 Special Topics in International Business (3.00 cr.)

Prerequisite: All core courses. Explores the international business environment, management practices, and specific problems facing managers conducting business in more than one cultural context. Readings, discussions, group projects, and presentations may be used to share information on the topic. Topics may include export-import management and international business law.

GB 797 Special Topics in Management (1.50–3.00 cr.)

Prerequisite: All core courses. Students develop a mastery of a particular general management topic. Topics may include power and influence, managing groups and teams, service management, and American business in the global environment.

GB 820 Advanced Financial Analysis (3.00 cr.)

Prerequisite: GB 703. Focuses on the assessment of financial performance and health of companies from the point of view of equity and credit analysts. Students learn to apply financial statement analysis, prepare pro forma financial statements, and determine the intrinsic value of a firm. Topics include analyzing financial statements, generally accepted accounting principles, forecasting financial statements, and business valuation.

GB 821 Financial Policy (3.00 cr.)

Prerequisite: GB 722. Focuses on the integration, formulation, and implementation of financial decisions and policies by using cases which describe actual business situations to understand the firm's funds' plans according to the objective of wealth maximization in today's business environment. Students learn the theories of finance, the use of financial tools, and how to relate the financial valuation paradigms to the broader strategic environment facing managers. Topics include strategic financial planning, social responsibility of financial managers, the ethical dimensions of financial decisions, application skills of financial techniques, forecasting and risk analysis, required return and sources of capital, and the timing and sequencing of financial actions plans. Integrates the various subfields of finance and should be taken as one of the last courses.

GB 822 Fixed Income Securities (3.00 cr.)

Prerequisite: GB 722. Focuses on the analysis of specific types of fixed income securities including government bonds, corporate bonds, floating rate notes, and closely related instruments. Students learn how to value the various types of fixed income securities, manage interest rate risk, and construct bond portfolios. Topics include bond options, forwards and futures on bonds, caps, floors, collars, swaps, and swaptions.

GB 823 Derivatives and Risk Management (3.00 cr.)

Prerequisite: GB 722. Examines derivative securities such as options, futures, forwards, and swaps. Students learn trading strategies, hedging strategies, and how to value derivative securities. Topics include derivatives markets, pricing models, stock options, interest rate derivatives, binomial option pricing, numerical procedures, and exotic options.

GB 825 Special Topics in Finance (3.00 cr.)

Prerequisite: GB 703. Addresses issues in a particular field of finance, including investments, portfolio management, derivative securities, international finance, capital markets, corporate finance, and financial institutions. Encompasses critical reviews of selected journal articles, empirical research, guest lectures, student papers and presentations. *Seminar format.*

GB 867 Special Topics in Financial Accounting (3.00 cr.)

Prerequisite: GB 761 or equivalent. Investigates and analyzes in detail current topics of interest to the Financial Accounting Standards Board (FASB) and other items of interest in the accounting literature. Uses current

pronouncements, exposure drafts, and interpretations of current FASB pronouncements.

GB 895 Quality Management (3.00 cr.)

Prerequisite: GB 701. Focuses on and develops principles and concepts of quality management, continuous improvement processes, business process reengineering, leadership for quality, and customer-driven quality. Students develop an understanding of a total quality management philosophy as a sustainable competitive advantage and way of life in their organization. Topics include the history and logic of continuous improvement, business process reengineering, total quality management basic and advanced tools, team development, leadership for change, and implementing quality.

GB 896 Power and Influence (3.00 cr.)

Prerequisite: All core courses. Develops the understanding that organizations are political entities where power and influence are key mechanisms by which things get done. Students learn to define power and its sources; analyze work relationships; identify and use influence tactics effectively and ethically; and use power and influence over the course of their career. Topics include power dynamics in organizations, managing networks of relationships, team management, and career management.

GB 897 Negotiation and Dispute Resolution (3.00 cr.)

Prerequisite: All core courses. Provides the opportunity to learn and practice negotiation methods and skills and to learn about the uses of mediation and arbitration as alternative methods of dispute resolution. Students learn to demonstrate an informed understanding of negotiation, mediation, and arbitration, including ethical issues and legal considerations relevant to them; demonstrate and explain their own negotiation and mediation skills; and identify and use relevant sources of information (print, electronic, and practitioner) to research and report on questions pertaining to negotiation, mediation, and arbitration. Negotiation and mediation exercises and invited experts are used along with lectures. Topics include positional bargaining; mutual gains bargaining; preparation for negotiation; negotiating tactics; cross-cultural negotiating; negotiating and gender; ethical and legal issues relevant to negotiating; the mediation process and role of the mediator; the arbitration process; and the use of mediation and arbitration in lieu of litigation.

MASTER OF SCIENCE IN FINANCE

OFFICE: Timonium Campus, Room 08F

TELEPHONE: 410-617-5067

DIRECTOR, GRADUATE BUSINESS PROGRAMS:

John F. White

ACADEMIC DIRECTOR: Walter J. Reinhart,
Associate Professor

The Master of Science in Finance (MSF) offers advanced financial training that builds on a foundation of business and quantitative skills. The program is designed to offer a strong conceptual understanding of finance to develop the student's analytical and critical thinking abilities. In addition, the program is designed to provide students with sufficient background and foundation to sit for the initial examinations for important professional designations. The program stresses four major themes: technical competence, application of financial tools to decision-making, value creation for stakeholders, and professional responsibility and ethics.

The Joseph A. Sellinger, S.J., School of Business and Management is accredited by AACSB International – The Association to Advance Collegiate Schools of Business. Under the guidelines of AACSB International, the Sellinger School is committed to the concept and practice of “continuous improvement” of all of its academic programs. **Therefore, for the most up-to-date information on courses and programs, contact the Office of Executive and Graduate Business Programs.**

ADMISSION CRITERIA

Students are selected on the basis of two primary criteria, prior academic achievement and performance on the Graduate Management Admission Test (GMAT). The Committee on Admissions and Retention, composed of faculty from various business disciplines, is the final arbiter.

Candidates with an advanced degree may have the GMAT waived. In addition to evaluation of the GMAT score and undergraduate/graduate performance, the admissions committee considers career progress, references, professional certifications and awards, and other evidence of capacity to pursue graduate study in business.

Applicants from universities whose primary teaching language is not English are required to submit scores from the Test of English as a Foreign Language (TOEFL).

Each applicant will be notified in writing of any admissions decisions.

GMAT WAIVER POLICY

Applicants to the MSF program who meet certain provisions will be considered for admission without submitting a GMAT score. If, upon review by the Admissions Committee, the applicant is considered admissible without a GMAT score, that requirement will be waived. The following provisions qualify an applicant for the GMAT waiver:

- Possession of an advanced degree (e.g., master's, doctorate, etc.) *or*
- Undergraduate GPA of 3.250 or higher combined with at least five years of professional work experience and a personal interview with a Loyola College Academic Adviser.

The Admission Committee reserves the right to request a GMAT score from an applicant even if these conditions are met.

APPLICATION PROCEDURES

Prospective students should file an application with the Graduate Admissions Office with the nonrefundable application fee. Optional letters of recommendation may be sent directly to the Graduate Admissions Office or included with the application. Information regarding official transcript requirements can be found in the Admissions chapter of this catalogue.

Admission materials should be submitted by:

Fall Semester (September start)	August 20
Spring Semester (January start)	December 20
Summer Sessions (June start)	May 20

International Students

Fall Semester (September start)	May 15
Spring Semester (January start)	August 15
Summer Sessions (June start)	January 15

Late applications will be considered but with no guarantee of timely decision. No student will be permitted to register for courses unless admitted.

FINANCIAL AID

Full-time students are eligible for employment within academic and administrative departments. Applications for employment opportunities can be obtained through the MBA office, by the first of the month preceding the start of each term. Student loan programs exist. Inquiries concerning loans should be directed to the Financial Aid Office, 410-617-2576.

PREREQUISITES AND BASIC COMPETENCIES

The MSF program attracts students with strong intellectual abilities, demonstrated records of success and the keen desire to pursue a successful career in the field of finance. The program focuses on students who have a bachelor's or master's degree in a business discipline. The program also accepts students with strong academic and experience credentials in other disciplines, especially those in mathematics, physical sciences, computer sciences, biological sciences and engineering. These students will be evaluated on a case-by-case basis to determine any additional initial preparation required to enter the MSF program. Generally, students will have course work in accounting, finance, economics, and statistics prior to entering the program.

DEGREE REQUIREMENTS

A minimum of 30 credits of advanced graduate courses (700- and 800-level) is required of all students. Advanced standing may be granted for a maximum of two of these courses if an equivalent graduate level course has been taken elsewhere at an accredited college or university.

The curriculum consists of six required courses and four electives as follows:

Core Courses

- GB 500 Finite Mathematics and Calculus Applied to Business Problems (3 credits)
- GB 600 Quantitative and Statistical Decision Making (3 credits)
- GB 611 Global Economic Analysis (3 credits)
- GB 613 Financial Reporting and Analysis (1.5 credits)
- GB 620 Fundamentals of Finance (1.5 credits)

Required Courses

- GB 703 Financial Strategy (3 credits)
- GB 722 Investments Management (3 credits)
- GB 723 Portfolio Management (3 credits)
- GB 724 Financial Markets and Instruments (3 credits)
- GB 726 International Finance (3 credits)
- GB 820 Advanced Financial Analysis (3 credits)

Elective Options (choose four)

- GB 720 Financial Theory (3 credits)
- GB 725 Financial Institutions (3 credits)
- GB 729 Financial Modeling (3 credits)
- GB 821 Financial Policy (3 credits)
- GB 822 Fixed Income Securities (3 credits)
- GB 823 Derivatives and Risk Management (3 credits)
- GB 825 Special Topics in Finance (3 credits)

COURSE DESCRIPTIONS

Descriptions for GB courses can be found in the chapter concerning the Master of Business Administration (MBA).

LOYOLA/UAH MBA PROGRAM

OFFICE: Timonium Campus, Room 08G

TELEPHONE: 410-617-5067

ASSISTANT DIRECTOR, GRADUATE BUSINESS PROGRAMS: MaryJane Ruppert

Since August 1995, the Sellinger School has offered the Loyola MBA in Santiago, Chile, in partnership with the Instituto Latino-Americano de Doctrina y Estudios Sociales (ILADES). ILADES was founded in Chile thirty-six years ago as a research institute by the Society of Jesus in response to the request of Latin American Catholic Bishops to apply the social teaching of the Church to the economic and social realities of Latin America. Because of the long tradition of close missionary relations between the Maryland Province of the Society of Jesus and the Chilean Jesuits, Loyola agreed to work with ILADES to offer an MBA in Chile. Since November 1997, ILADES has been affiliated with the world's most recently created Jesuit University, the Universidad Alberto Hurtado (UAH) in Santiago.

Loyola awarded its first MBA in Santiago in July 1997 to 42 graduates. Through January 2002, there have been more than 300 Loyola MBAs awarded to UAH students studying in Chile. UAH MBA students can enroll in a part-time evening (executive) program. The GB 600-level courses are offered in Spanish with Spanish materials, taught by UAH faculty. An articulation agreement admits students who have successfully completed the 600-level courses to Loyola MBA at UAH. The GB 700-level courses are offered in English with English materials. Sellinger School faculty teach most of these courses, including electives.

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COURSE DESCRIPTIONS

Descriptions for GB courses can be found in the chapter concerning the Master of Business Administration (MBA).

MASTER'S PLUS PROGRAM

OFFICE: Timonium Campus, Room 08F

TELEPHONE: 410-617-5067

DIRECTOR, GRADUATE BUSINESS PROGRAMS:

John F. White

ACADEMIC DIRECTOR: Darlene Brannigan Smith,
Associate Professor

Upon acceptance, individuals with a master's degree in business from Loyola College or another accredited college or university may take courses for which they have the background. Individuals with other master's degrees may take certain courses with permission of the Associate Dean of Executive and Graduate Business Programs.

Many graduate business alumni use the Master's Plus as a vehicle to prepare for certain professional certifications, such as the Certification of Public Accountancy (CPA). Master's Plus students may elect from a variety of courses in consultation with the graduate business program director. For a complete listing of courses offered in the evening programs, please refer to the chapter concerning the Master of Business Administration (MBA).

Students may take up to five courses under the program, as long as they maintain good standing as a graduate student. They may take additional courses with permission of the Associate Dean of Executive and Graduate Programs. The Master's Plus does not lead to a degree.

Second Specialization

Graduates from Loyola's evening MBA, Executive MBA, or MBA Fellows Program may enter the Master's Plus Program to obtain a second specialization. After successfully completing three courses through the evening MBA course offerings, a second specialization will be awarded. Consultation with the graduate business program director is required when selecting courses.

MBA FELLOWS PROGRAM

OFFICE: Timonium Campus, Room 08D

TELEPHONE: 410-617-5064

DIRECTOR, EXECUTIVE MBA PROGRAMS:

Manette Frese Gates

ACADEMIC DIRECTOR: Darlene Brannigan Smith, Associate Professor

The MBA Fellows Program is a 2.5 year, Saturday-only cohort program designed for fast-track, emerging leaders seeking to advance their careers. Contemporary issues of today's managers are addressed using a program that builds content around integrating themes within and across course modules. It is primarily delivered over ten, ten-week modules during which students take the equivalent of two courses per module. Classes are held on Saturdays only, ending in early afternoon.

The Fellows Program focuses on the following outcomes:

Values and Qualities

- Ethical Commitment
- Appreciation for Diversity
- Continuous Personal Development
- Orientation to Action

Skills and Abilities

- Leadership
- Entrepreneurial Spirit
- Communication and Negotiation
- Teamwork and Collaboration
- Critical Thinking and Rigorous Reasoning
- Analysis, Synthesis, and Decision-Making

Knowledge

- General Management
- Global Perspective
- Management by Information
- Affinity for Technology

Throughout the program, students benefit from the following distinctive features of the Sellinger School's Fellows Program:

Integrated, Theme-Based Program

The ten-week modules are progressive and have a theme borne out of one of the following three main goals of the curriculum content: manage-

ment foundations, executive management concepts and applications, and special topics.

Faculty Partners

The faculty who teach in the Fellows Program have academic ownership of the program, work together to ensure an integrated cross-functional approach, and seek to continuously improve the program.

Student Teams

To facilitate learning and develop individual team skills, entering students are placed on teams set up based on professional/functional diversity and geographic proximity.

Residency in Executive Leadership

The residency portion of the program orients the professional to the Fellows Program and centers on the role of executive leadership, team building, familiarization with the program, and an introduction to the basics of accounting and statistics.

International Field Study

Following study of the global environment, students participate in an international field study focusing on emerging markets, including on-site visits and executive briefings at multiple organizations.

Innovation Application

All students study an innovation or new direction within their organization, including management efforts required, competitive advantages, and delivery implications.

Management Consulting Application

This team project is the major integrative thread of the final half-year of the Program. With the facilitation of a Fellows Faculty Partner(s), teams create a strategic assessment for a client company.

Seminars and Special Sessions

In addition to regular class meetings, students participate in select special sessions, on and off campus, that help to develop additional skills and experiential learning.

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International, the Sellinger School is committed to the concept and practice of “continuous improvement” of all of its academic programs. **Therefore, for the most up-to-date information on courses and programs, contact the Office of Executive and Graduate Business Programs.**

ADMISSION CRITERIA

Candidates for the Fellows Program are selected by the Executive MBA Programs Committee on Admission and Retention. The Committee selects candidates based on the following criteria:

- Relevant work experience.
- Leadership potential.
- Undergraduate achievement.
- Performance on the Graduate Management Admissions Test (GMAT). Candidates with a 3.000 undergraduate GPA and/or an advanced degree may have the GMAT waived.
- Interview with program director.

The Admissions Committee also considers factors such as company endorsement, references, other study, and professional certifications.

APPLICATION PROCEDURES

Prospective students should submit an application with fee, essay, official transcripts of all prior academic work, GMAT, three letters of recommendation, and a resume of their professional experience. All application materials should be sent to the director of Executive MBA Programs.

FINANCIAL INFORMATION

Cost for the Fellows Program includes tuition for all courses, expenses for the Residency, an international field study, textbooks, fees, weekly breakfasts, and educational materials. It is the policy of Loyola College to maintain the same tuition throughout the 2.5 years in the program. Upon acceptance into the program, students may choose from a variety of payment plans.

FINANCIAL AID

Fellows Program students may be eligible for student loans through the Federal Direct Stafford Loan Program. To assure all avenues are explored, applicants should make their interest in financial aid known early in the admissions process.

BASIC COMPETENCIES

Skills in written and oral communication, quantitative analysis, computer usage, and software applications are essential for success in the MBA Fellows Program. Communications skills are needed for writing and presentation of cases and other assignments. Students should be able to understand, manipulate and graph algebraic functions. Because computer software is used as a medium for presentation and a framework for analysis, students should be familiar with word processing and spreadsheet software and have access to a personal computer. Several options exist to provide such competencies to an entering student. These options can be explored with prospective students during the admissions process.

DEGREE REQUIREMENTS

The Fellows Program encompasses two and a half academic years, during which students complete 51 credit hours of graduate study. Students in each class take the same courses together as a cohort. The first year begins with a short residency in September and continues with three, ten-week sessions plus a mini-session ending in June. During the second year, the three, ten-week sessions are followed by a session on global business, including a ten-day international field study. The final phase of the program, ending in February, is highlighted by a live case study and ends with a retreat. Throughout the program, students participate in select Executive Seminars which complement and amplify program courses and offer a perspective on issues important to business executives. Seminar topics and content are continuously revised to meet the changing needs of executives.

A quality point average of 3.000 (*B*) or higher is required for graduation. If a student's quality point average drops below 3.000 in any session or cumulatively, continuation in the program is subject to review by the Committee on Admission

and Academic Retention. More than two C/C+ (2.000/2.330) grades, or any F (0.000) grade, constitutes dismissal. Upon successful completion of the Fellows Program students are awarded a Master of Business Administration (MBA).

First Year: Fundamentals of Business

Residency

EF 600 Residency in Executive Leadership

Module 1: Fundamentals of Business I

EF 650 Strategic Planning and Analysis (5 weeks)

EF 662 Leadership and Organizational Effectiveness

EF 663 Accounting Information for Executive Decision-Making

Module 2: Fundamentals of Business II

EF 663 Accounting Information for Executive Decision-Making (continued)

EF 670 Foundations of Economic and Business Analysis

Module 3: Fundamentals of Business III

EF 660 Statistics and Quantitative Methods

EF 664 Analysis of Domestic and Global Economic Market Systems

Module 4: Fundamentals of Business IV

EF 772 Information Technology and Strategy

Second Year: The Process of Value Creation

Module 5: The Process of Value Creation I

EF 674 Financial Management I

EF 764 Marketing Management

Module 6: The Process of Value Creation II

EF 762 Financial Management II

EF 766 Government and Legal Environment of Business

Module 7: The Process of Value Creation III

EF 768 Operations Strategy and Management

EF 774 International and Global Business

EF 775 International Field Study

Module 8: The Process of Value Creation IV

EF 661 Ethical Decision-Making (5 weeks)

EF 769 Project Management (5 weeks)

Final Half Year: Innovation and Implementation

Module 9: Innovation and Implementation I

EF 714 New Product Development and Innovation Management

EF 767 Entrepreneurship (5 weeks)

EF 773 Strategic Integration and Implementation

Module 10: Innovation and Implementation II

EF 763 Corporate Social Responsibility (5 weeks)

EF 771 Leading Change (5 weeks)

EF 773 Strategic Integration and Implementation (continued)

Final Retreat

EF 777 Putting Values into Action

COURSE DESCRIPTIONS

EF 600 Residency in Executive Leadership (2.50 cr.)

Participants spend the first week of their program engaged in program orientation and team building activities. Small study groups are established and individual expertise is shared. Students learn concepts of accounting and statistics, as well as the conceptual understanding of the numerous facets of strategic management through role-playing, case studies, and simulations. Topics include team building, leadership, and communications.

EF 650 Strategic Planning and Analysis (1.25 cr.)

Focuses on the fundamentals of strategic analysis and planning. Students learn internal analysis of the firm and external analysis of the firm's environment, i.e., industry and market structure, existing and emerging competitors, customers and macro-environmental forces. Large and small organizations in the profit and nonprofit sectors are compared and contrasted with regard to their approaches to strategic planning.

EF 660 Statistics and Quantitative Methods (2.50 cr.)

Introduces the basic concepts of statistics with emphasis on management applications. Students gain competence in applied statistics and in applying a statistical computer package to business analysis. Presents probability concepts and distributions; procedures for estimating measures of location and dispersion; establishing

confidence intervals; statistical process control; acceptance sampling; and multivariate analysis including contingency analysis, analysis of variance, and regression.

EF 661 Ethical Decision-Making (1.25 cr.)

Examines the nature of moral awareness and different theories of normative ethics. Students learn to recognize an ethical dilemma and consider an ethical framework to resolve dilemmas in the workplace. Introduces students to the process of individuation to help them determine how they will follow their own consciences in an environment that could encourage them to do otherwise.

EF 662 Leadership and Organizational Effectiveness (2.50 cr.)

Addresses the human side of the enterprise and how managing relationships becomes more important than performing tasks as managers acquire responsibility for leadership. Students learn why some groups perform well while others do not, what constitutes truly outstanding leadership, and how a firm can transform itself. Topics include the determinants of group culture; management of individuals as formal authority is eroding; establishment of productive relationships with peers and seniors over whom the manager has no formal authority; decision-making under uncertainty; and the key characteristics of a learning organization, including the identification and transfer of best practices and the use of reflection and metaphorical thinking.

EF 663 Accounting Information for Executive Decision-Making (3.75 cr.)

By combining case studies, readings, lectures, and class discussion, this course empowers students to integrate accounting information into organizational planning and control processes. Topics include understanding the accounting cycle; the strategic approach to analyzing financial statements including balance sheet, income statement, and cash flow; costing systems; cost-volume-profit analysis; budgeting and control systems; relevant cost and decision-making; performance evaluation; and strategic cost management. Practical application of both financial and managerial accounting is emphasized.

EF 664 Analysis of Domestic and Global Economic Market Systems (2.50 cr.)

Introduces supply and demand analysis and then develops an understanding of macroeconomic theory and policy using active-learning, writing, and discussion methods. Students develop an awareness of monetary and fiscal policy impacts on long-term trends and short-term fluctuations, how these bear on their firms and

industries, and how the circular flows of economic activity create various time series patterns. Students are prepared to assume discussion leadership among superiors, peers, and subordinates. Topics include the merits of free global markets and flexible exchange rates; the interaction of global, national, and regional supply and demand forces; key ideas of Nobel laureates; labor and capital markets interactions; international economic growth patterns; problems of economic development; the role of expectations within the business cycle; and modern electronic commerce.

EF 670 Foundations of Economic and Business Analysis (2.50 cr.)

Creates and applies microeconomic analysis tools to the solution of business problems and the formulation of business strategy. Students learn standard production, cost, and distribution theories of market exchange. Topics include the firm's pricing decisions in various market structures, the architecture of the firm, incentive systems, horizontal and vertical integration logic for optimizing supply chains, and related internal pricing problems. *Formerly titled, Managerial Economics.*

EF 674 Financial Management I (2.50 cr.)

Focuses on the theory and practice of finance from a corporate perspective. Emphasis is placed on understanding the role of financial decisions in determining value. Students learn the basic techniques of financial management, skills in analyzing risks and financial returns in specific situations, and financial issues faced by general management. Topics include valuation theory, financial markets, capital budgeting, cost of capital, capital structure, dividend policy, and international finance.

EF 714 New Product Development and Innovation Management (2.50 cr.)

Designed to help students discover the bases, processes, and challenges of corporate practices in product and new venture management from a contemporary and emerging "best practices" perspective. Students learn where corporate practice in new product development and management has come from and where it is headed; what changes, complexities, and opportunities are involved in leading product development and management; and what lessons are being learned by leading-edge organizations in the field. Students are involved in an in-depth study of these and related issues and extensive exploration into areas of personal interest in product and new venture management. Topics include the fully integrated approach to new product development (NPD); the new product devel-

opment process; the critical role of customers and market knowledge; the key elements of a successful NPD strategy; how an organization's culture influences product innovation; the leadership skills required to stimulate organizational innovation; and how an organization can organize for innovation.

EF 719 Independent Study (1–3.00 cr.)

Prerequisite: Written permission of the program director is required. Provides students with the opportunity to do a research or business development project under the supervision of a professor.

EF 762 Financial Management II (2.50 cr.)

Focuses on student analysis and presentation of solutions to several different types of financial problems using the case method. Develops skills in problem identification, analysis, and decision-making. Students learn to discuss alternative views of these situations from the perspective of senior management of the organization. Topics include valuation theory, financial markets, capital budgeting, cost of capital, capital structure, dividend policy, and international finance.

EF 763 Corporate Social Responsibility (1.25 cr.)

Examines alternative perspectives on the social responsibility of business. Students consider the responsibility of an organization's leaders to set a corporate culture that fosters ethical decision-making.

EF 764 Marketing Management (2.50 cr.)

Provides a broad background on the nature and scope of marketing management and strategy. Students develop an understanding of core marketing concepts and applying them to contemporary problems. The initial focus is on the marketing mix—specifically the controllable variables of product, promotion, distribution, and pricing. The secondary focus is on the development of marketing strategy to achieve success in new and growth markets as well as mature and declining industries. Topics include consumer and industrial goods and services in the domestic and global marketplace, as well as marketing tools for developing actionable plans.

EF 766 Government and Legal Environment of Business (2.50 cr.)

Presents the interactive aspects of business with government agencies, policies, and legislation. Students learn to evaluate the impact of legal and regulatory constraints on business strategies. Topics include management of dispute resolution, litigating and Alternate Dispute Resolution (ADR); managing a firm's legal mat-

ters; agency relationships; corporate governance; legal responsibilities to employees and investors; and the legal bases for business efforts to interact with government at all levels to influence the development of the legal environment. Attention is paid to global aspects.

EF 767 Entrepreneurship (1.25 cr.)

Designed to amplify individual talents and abilities through an organized and systematic mix of seminars, clinical sessions, and expert advice available from a distinguished cadre of mentors. Guides entrepreneurs in their business plan creation, new product development, turnaround, and business growth concerns. Also covers areas considered important in the management of technology, as well as innovation concerned with technology and its many facets (including ethical dilemmas). In the classroom, a peer network of students provides valuable feedback and advice in solving problems. Course content is appropriate for "entrepreneurs" in large and small organizations.

EF 768 Operations Strategy and Management (2.50 cr.)

Develops strategic and managerial understanding of production processes for goods and services in all types of organizations. Students use seminar-style active-learning and discussion methods to connect the strategy of the encompassing enterprise to the strategic perspective in operations and to relate operations to marketing, finance, and other functional areas of the enterprise. Topics include production process improvement methods; services and goods development strategies; total quality management; global project management; cross-functional teams; global communication and e-commerce; supply chain management; and world class operations. The course is integrated with EF 769 and uses site visits, video tours, case studies, software demonstrations, and guest speakers to reinforce lessons.

EF 769 Project Management (1.25 cr.)

This course complements EF 768 by developing and presenting additional tools aimed at successfully designing, implementing, and completing projects in modern, often global, organizations. Students examine decision science tools, software, and global communications technologies related to episodic, time-constrained, complex, cross-functional, and enterprise-critical endeavors in areas such as the design of services and goods, major production process redesign, facility construction, and research. Topics include project alignment with regular operations; organizational structure options for projects; characteristics of good project leaders; team formation and management; control and delegation;

CPM/PERT methods and latest software implementations; time-cost models; milestones; handling change orders and replanning; managing resources; communication with superiors; use of simulation and prototypes in design projects and case studies.

EF 771 Leading Change (1.25 cr.)

Focuses on the art and skill of leading change in a time of continuous change. Underlying premises are that organizational change, whether planned or unplanned, is inevitable and should be welcomed; organizational change can be effectively managed and led; leading change is a key skill every manager needs to survive and prosper in these turbulent times; and creative thinking will allow continual, sustained competitive advantage. Students improve their effectiveness as change agents through broadening their theoretical knowledge of the change process and expanding their repertoire of practical change skills.

EF 772 Information Technology and Strategy (2.50 cr.)

Examines strategic issues of how a firm determines and changes its position within its environment through the cybernetic process. Focuses on management information systems (MIS), the management of the MIS function, and the development and implementation of a strategic technology strategy. Students learn the impact of information technology on strategy, electronic commerce, organizational forms, security and privacy, and business and operating processes. Topics include issues of information architecture, database management systems, the systems development process, and international operations.

EF 773 Strategic Integration and Implementation (3.75 cr.)

Presents strategic integration as a questioning, challenging, unconventional, and innovative process. Students prepare to think and act like general managers—individuals carrying titles such as CEO, Plant Manager, General Manager, Executive Director, President, Owner, and Managing Director. Also imparts the skills of a general manager and is almost wholly devoted to hands-on applications. Topics include instilling a critical, analytical, flexible, and creative mindset; challenging the organizational, industrial, and national paradigms and problem-solving recipes; proficiency in meeting the general management responsibility in strategy formulation and implementation; and evaluation, design, development, and implementation of various functional plans for an organization using cases and/or simulations.

EF 774 International and Global Business (2.50 cr.)

The course adopts a general management/strategic viewpoint in the framework of the global environment. It is directed to the management opportunities and problems associated with the movement of goods, human resources, technology, ownership, and control across national and cultural boundaries. Students learn the additional information and wider perspective that result from international activities. The central theories of management, economics, and other business areas are studied and expanded. Topics include different cultural, political, economic, and legal environments which highlight the importance of attention to strategic as well as social and ethical constraints upon the multinational entity. From its position in the curriculum and its subject matter, the course helps to theoretically prepare the student for the international residency. *Formerly titled, International Business.*

EF 775 International Field Study (2.50 cr.)

Provides participants with an experientially-based international field study. By design, this course overlaps and extends the thinking and perspective taken in the courses during the first two years, while providing students with a conceptual framework that can be expanded and modified by work in the third year. Students learn to make better management decisions in a competitive global environment with a particular emphasis on emerging markets. Topics include the application of the constraints and opportunities arising from diverse and changing international environmental factors (such as cultural distance, political risk, economic stability, legal complexities, and foreign exchange exposure) to actual managerial issues arising in conducting business overseas. *Formerly titled, Global Environments and Strategies. Students in the Class of 2002 and prior receive 3.00 credits for this course.*

EF 777 Putting Values into Action (1.00 cr.)

The final component of the program, wherein students examine profiles of leadership (personally and professionally). Participants reflect on their values, their ability to meet the professional challenges of the twenty-first century, and their personal vision for the future.

OFFICE: Timonium Campus, Room 08D

TELEPHONE: 410-617-5064

DIRECTOR, EXECUTIVE MBA PROGRAMS:

Manette Frese Gates

ACADEMIC DIRECTOR: Darlene Brannigan
Smith, Associate Professor

The Executive MBA (EMBA) program, one of the first in the country, is a twenty-one month, week-end cohort program designed for senior managers and executive leaders of today's fast-paced organizations. Contemporary issues facing executives are addressed using a program that builds content around integrating themes within and across course modules. It is delivered over six, ten-week modules during which students take the equivalent of three courses per module. Class days occur one day a week, all day, alternating between Fridays and Saturdays.

The EMBA program focuses on the following outcomes:

Values and Qualities

- Ethical Commitment
- Appreciation for Diversity
- Continuous Personal Development
- Orientation to Action

Skills and Abilities

- Leadership
- Entrepreneurial Spirit
- Communication and Negotiation
- Teamwork and Collaboration
- Critical Thinking and Rigorous Reasoning
- Analysis, Synthesis, and Decision-Making

Knowledge

- General Management
- Global Perspective
- Management by Information
- Affinity for Technology

Throughout the program, students benefit from the following distinctive features of the Sellinger School's EMBA program:

Integrated, Theme-Based Program

The ten-week modules are progressive and have a theme borne out of one of the following three main goals of the curriculum content: management foundations, executive management concepts and applications, and special topics.

Faculty Partners

The faculty who teach in the EMBA program have academic ownership of the program, work together to ensure an integrated cross-functional approach, and seek to continuously improve the program.

Student Teams

To facilitate learning and develop individual team skills, entering students are placed on teams set up based on professional/functional diversity and geographic proximity.

Residency in Executive Leadership

The residency portion of the program orients the professional to the EMBA Program and centers on the role of executive leadership, team building, familiarization with the program, and an introduction to the basics of accounting and statistics.

International Field Study

Following study of the global environment, students participate in an international field study focusing on emerging markets, including on-site visits and executive briefings at multiple organizations.

Innovation Application

All students study an innovation or new direction within their organization, including management efforts required, competitive advantages, and delivery implications.

Management Consulting Application

This team project is the major integrative thread of the second year of the Program. With the facilitation of an EMBA faculty partner, teams create a strategic assessment for a client company.

Seminars and Special Sessions

In addition to regular class meetings, students participate in select special sessions, on and off campus, that help to develop additional skills and experiential learning.

The Joseph A. Sellinger, S.J., School of Business and Management is accredited by AACSB International – The Association to Advance Collegiate Schools of Business. Under the guidelines of AACSB International, the Sellinger School is committed to the concept and practice of “continuous improvement” of all of its academic programs. **Therefore, for the most up-to-date information on courses and programs, contact the Office of Executive and Graduate Business Programs.**

ADMISSION CRITERIA

EMBA students are selected on the basis of the following criteria:

- Management experience, potential, and achievement with emphasis placed on the individual’s present position.
- Prior academic achievement as reflected by undergraduate and graduate performance.
- Performance on the Graduate Management Admissions Test (GMAT). Can be waived at the discretion of the Admissions Committee based on a 3.000 or higher undergraduate grade performance or advanced degree(s).
- Interview with program director.

There is no minimum age requirement for admission to the EMBA programs. The average age for EMBA classes normally falls between 37 and 42 years, with participants’ ages typically spanning the late twenties to early fifties.

APPLICATION PROCEDURES

Prospective students should file an application with fee, essay, three letters of recommendation, GMAT (if applicable), official transcripts, and a resume of their managerial/professional experience. All application materials should be sent to the Director of Executive MBA Programs.

An admissions committee is the final arbiter of admission to the program. In addition to evaluation of undergraduate performance and test scores, the committee also weighs such factors as depth and breadth of managerial experience, organizational endorsement, references, evidence of other

advanced academic study, and professional awards and certifications.

FINANCIAL INFORMATION

Tuition includes all textbooks, educational materials, international residency and travel, library services, computer use, registration, and graduation fees. While tuition in all colleges and universities usually increases on an annual basis, it is the policy of the College to maintain the same tuition throughout the two years of the EMBA program. Upon acceptance into the program, students may choose from a variety of payment plans.

FINANCIAL AID

EMBA students may be eligible for student loans through the Federal Direct Stafford Loan Program. All entering students interested in financial aid should make their intentions known early in the admissions process.

BASIC COMPETENCIES

Skills in written and oral communication, quantitative analysis, computer usage, and software applications are essential for success in the EMBA program. Written and oral communication skills are necessary for writing and presentation requirements. In the quantitative analysis area, students should have the capability to understand, manipulate, and graph algebraic functions. Throughout the program, computer software is used as a medium for presentation and as a framework for analysis. As a minimum, each student should be able to use spreadsheet, presentation, and word processing software applications in a Windows environment and have access to a personal computer.

Several options exist to provide such competencies to an entering student. These options can be explored with prospective students in the admissions process.

DEGREE REQUIREMENTS

The EMBA program encompasses a two academic year period in which all students begin as cohorts and take the same courses together. Grades are assigned for all courses and a quality point average of *B* (3.000) is required for graduation. If at

any time a student's average falls below 3.000, academic probation is automatic and continuation in the program is subject to review by the Committee on Admissions and Academic Retention. More than two C/C+ (2.000/2.330) grades, or any F (0.000) grade, constitutes dismissal. Students who successfully complete the requirements are awarded a Master of Business Administration (MBA).

First Year

Residency Period

EX 601 Residency in Executive Leadership I

Module 1: Business Foundations

- EX 602 Leadership and Organizational Effectiveness
- EX 603 Accounting Information for Executive Decision-Making
- EX 604 Strategic Planning and Analysis (5 weeks)
- EX 614 Ethics in Business (5 weeks)

Module 2: The Firm and Its Environment

- EX 603 Accounting Information for Executive Decision-Making (continued)
- EX 605 Foundations of Economic and Business Analysis
- EX 607 Statistics (5 weeks)
- EX 707 Information Technology and Strategy

Module 3: The Global Challenge

- EX 608 Analysis of Domestic and Global Economic Markets
- EX 609 International and Global Business
- EX 613 Government and Legal Environment of Business

International Residency

EX 700 International Field Study

Second Year

Residency Period

EX 711 Residency in Executive Leadership II

Module 4: The Process of Value Creation

- EX 702 Financial Management I
- EX 704 Marketing Management
- EX 721 Operations Strategy and Management

Module 5: The Strategy of Innovation

- EX 703 Leading Change (5 weeks)
- EX 705 Financial Management II
- EX 714 New Product Development and Management
- EX 715 Technology, Innovation, and Entrepreneurship

Module 6: The Integrated Challenge

- EX 715 Technology, Innovation, and Entrepreneurship (continued)
- EX 716 Management Consulting Application
- EX 717 Corporate Social Responsibility (5 weeks)
- EX 718 Strategy Integration and Implementation

Retreat

EX 777 Putting Values into Action

COURSE DESCRIPTIONS

EX 601 Residency in Executive Leadership I (2.50 cr.)

Participants spend the first week of their program engaged in program orientation and team building activities. Small study groups are established and individual expertise is shared. Students learn concepts of accounting and statistics, as well as the conceptual understanding of the numerous facets of strategic management through role-playing, case studies, and simulations. Topics include team building, leadership, and communications.

EX 602 Leadership and Organizational Effectiveness (2.50 cr.)

Addresses the human side of the enterprise and how managing relationships becomes more important than performing tasks as managers acquire responsibility for leadership. Students learn why some groups perform well while others do not, what constitutes truly outstanding leadership, and how a firm can transform itself. Topics include the determinants of group culture; management of individuals as formal authority is eroding; establishment of productive relationships with peers and seniors over whom the manager has no formal authority; decision making under uncertainty; and the key characteristics of a learning organization, including the identification and transfer of best practices and the use of reflection and metaphorical thinking.

EX 603 Accounting for Executive**Decision-Making (3.75 cr.)**

By combining case studies, readings, lectures, and class discussion, this course empowers students to integrate accounting information into organizational planning and control processes. Topics include understanding the accounting cycle; the strategic approach to analyzing financial statements, including balance sheet, income statement and cash flow; costing systems; cost-volume-profit analysis; budgeting and control systems; relevant cost and decision making; performance evaluation; and strategic cost management. Practical application of both financial and managerial accounting is emphasized.

EX 604 Strategic Planning and Analysis (1.25 cr.)

Focuses on the fundamentals of strategic analysis and planning. Students learn internal analysis of the firm and an external analysis of the firm's environment, i.e., industry and market structure, existing and emerging competitors, customers and macro-environmental forces. Large and small organizations in the profit and nonprofit sectors are compared and contrasted with regard to their approaches to strategic planning.

EX 605 Foundations of Economic and Business Analysis (2.50 cr.)

Creates and applies microeconomic analysis tools to the solution of business problems and the formulation of business strategy. Students learn standard production, cost, and distribution theories of market exchange. Topics include the firm's pricing decisions in various market structures, the architecture of the firm, incentive systems, horizontal and vertical integration (supply chain) decisions, and related internal pricing problems. The use of statistical analysis tools is included.

EX 607 Statistics (1.25 cr.)

Covers data analysis with emphasis on management applications and decision making. Topics include qualitative decision making, descriptive statistics, estimation, statistical process control, acceptance sampling, forecasting, and time series analysis. Competence is developed in these topics and in supporting software.

EX 608 Analysis of Domestic and Global Economic Market Systems (2.50 cr.)

Introduces supply and demand analysis and then develops an understanding of macroeconomic theory and policy using active-learning, writing, and discussion methods. Students develop an awareness of monetary and fiscal policy impacts on long-term trends and short-term fluctuations, how these bear on their firms and

industries, and how the circular flows of economic activity create various time series patterns. Students are prepared to assume discussion leadership among superiors, peers, and subordinates. Topics include the merits of free global markets and flexible exchange rates; the interaction of global, national, and regional supply and demand forces; key ideas of Nobel laureates; labor and capital markets interactions; international economic growth patterns; problems of economic development; the role of expectations within the business cycle; and modern electronic commerce.

EX 609 International and Global Business (2.50 cr.)

The course adopts a general management/strategic viewpoint in the framework of the global environment. It is directed to the management opportunities and problems associated with the movement of goods, human resources, technology, ownership, and control across national and cultural boundaries. Students learn the additional information and wider perspective that results from international activities. The central theories of management, economics, and other business areas are studied and expanded. Topics include different cultural, political, economic, and legal environments which highlight the importance of attention to strategic as well as social and ethical constraints upon the multinational entity. From its position in the curriculum and its subject matter, the course helps to theoretically prepare the student for the international residency.

EX 613 Government and Legal Environment of Business (2.00 cr.)

Presents the interactive aspects of business with government agencies, policies, and legislation. Students learn to evaluate the impact of legal and regulatory constraints on business strategies. Topics include management of dispute resolution (litigating and ADR); managing a firm's legal matters; agency relationships; corporate governance; legal responsibilities to employees and investors; and the legal bases for business efforts to interact with government at all levels to influence the development of the legal environment. Attention is paid to global aspects.

EX 614 Ethics in Business (1.25 cr.)

Examines the nature of moral awareness and different theories of normative ethics. Students learn to recognize an ethical dilemma and consider an ethical framework to resolve dilemmas in the workplace. Introduces students to the process of individuation to help them determine how they will follow their own consciences in an environment that could encourage them to do otherwise.

EX 700 International Field Study (2.50 cr.)

Provides participants with an experientially-based international field study. By design, this course overlaps and extends the thinking and perspective taken in the courses during the first year, while providing students with a conceptual framework that can be expanded and modified by work in the second year. Students learn to make better management decisions in a competitive global environment with a particular emphasis on emerging markets. Topics include the application of the constraints and opportunities arising from diverse and changing international environmental factors (such as cultural distance, political risk, economic stability, legal complexities, and foreign exchange exposure) to actual managerial issues arising in conducting business overseas.

EX 702 Financial Management I (2.50 cr.)

Focuses on the theory and practice of finance from a corporate perspective. Emphasis is placed on understanding the role of financial decisions in determining value. Students develop an understanding of the basic techniques of financial management, develop skills in analyzing risks and financial returns in specific situations, and gain exposure to financial issues faced by general management. Topics include valuation theory, financial markets, capital budgeting, cost of capital, capital structure, dividend policy, and international finance.

EX 703 Leading Change (1.25 cr.)

Focuses on the art and skill of leading change in a time of continuous change. Underlying premises are that organizational change, whether planned or unplanned, is inevitable and should be welcomed; organizational change can be effectively managed and led; leading change is a key skill every manager needs to survive and prosper in these turbulent times; and creative thinking will allow continual sustained competitive advantage. Students improve their effectiveness as change agents through broadening their theoretical knowledge of the change process and expanding their repertoire of practical change skills.

EX 704 Marketing Management (2.50 cr.)

Provides a broad background on the nature and scope of marketing management and strategy. Students develop an understanding of core marketing concepts and applying them to contemporary problems. The initial focus is on the marketing mix—specifically the controllable variables of product, promotion, distribution, and pricing. The secondary focus is on the development of marketing strategy to achieve success in new and

growth markets as well as mature and declining industries. Topics include consumer and industrial goods and services in the domestic and global marketplace, as well as marketing tools for developing actionable plans.

EX 705 Financial Management II (2.50 cr.)

Focuses on student analysis and presentation of solutions to several different types of financial problems using the case method. Develops skills in problem identification, analysis, and decision making. Students learn to discuss alternative views of these situations from the perspective of senior management of the organization. Topics include valuation theory, financial markets, capital budgeting, cost of capital, capital structure, dividend policy, and international finance.

EX 707 Information Technology and Strategy (2.50 cr.)

Examines strategic issues of how a firm determines and changes its position within its environment through the cybernetic process. Focuses on management information systems (MIS), the management of the MIS function, and the development and implementation of a strategic technology strategy. Students learn the impact of information technology on strategy, electronic commerce, organizational forms, security and privacy, and business and operating processes. Topics include issues of information architecture, database management systems, the systems development process, and international operations.

EX 711 Residency in Executive Leadership II (1.75 cr.)

This second in-residence program introduces participants to the second year content. Students learn the techniques required to effectively interact with and manage people, specifically negotiations and conflict resolution. Topics include the process of value creation, new product and innovation management, leading change, and strategic integration and implementation.

EX 714 New Product Development and Management (2.50 cr.)

Designed to help students discover the bases, processes, and challenges of corporate practices in product and new venture management from a contemporary and emerging “best practices” perspective. Students learn where corporate practice in new product development and management has come from and where it is headed; what changes, complexities, and opportunities are involved in leading product development and management; and what lessons are being learned by leading-edge organizations in the field. Students are involved in an in-depth study of these and related issues and extensive exploration

tion into areas of personal interest in product and new venture management. Topics include the fully integrated approach to new product development (NPD); the new product development process; the critical role of customers and market knowledge; the key elements of a successful NPD strategy; how an organization's culture influences product innovation; the leadership skills required to stimulate organizational innovation; and how an organization can organize for innovation.

EX 715 Technology, Innovation, and Entrepreneurship (2.50 cr.)

Designed to amplify individual talents and abilities through an organized and systematic mix of seminars, clinical sessions, and expert advice available from a distinguished cadre of mentors. Guides entrepreneurs in their business plan creation, new product development, turnaround, and business growth concerns. Also covers areas considered important in the management of technology, as well as innovation concerned with technology and its many facets (including ethical dilemmas). In the classroom, a peer network of students provides valuable feedback and advice in solving problems. Course content is appropriate for "entrepreneurs" in large and small organizations.

EX 716 Management Consulting Application (1.25 cr.)

Management consulting applications (MCAs), or field studies as they have been known, provide unlimited opportunities for explorations beyond the classroom. MCAs are a natural extension of readings, case studies, and computer-based, total enterprise business simulation. The MCA provides experiential learning through a "hands-on," consulting-like engagement with an organization in the region. Students learn to incorporate the skills and processes developed in the EMBA program and to develop general management skills that are useful in an organizational setting. The final output of the MCA is the submission of a usable idea that may include a strategic plan, business plan, new market development plan, new venture analysis and development, or financial plan.

EX 717 Corporate Social Responsibility (1.25 cr.)

Examines alternative perspectives on the social responsibility of business. Students consider the responsibility of an organization's leaders to set a corporate culture that fosters ethical decision-making.

EX 718 Strategy Integration and Implementation (2.50 cr.)

Presents strategic integration as a questioning, challenging, unconventional, and innovative process. Students prepare to think and act like general managers—individuals carrying titles such as CEO, Plant Manager, General Manager, Executive Director, President, Owner, and Managing Director. Also imparts skills of a general manager and is almost wholly devoted to hands-on applications. Topics include instilling a critical, analytical, flexible and creative mindset; challenging the organizational, industrial, and national paradigms and problem-solving recipes; proficiency in meeting the general management responsibility in strategy formulation and implementation; and evaluation, design, development, and implementation of various functional plans for an organization using cases and/or simulations.

EX 719 Independent Study (1–3.00 cr.)

Prerequisite: Written permission of the program director is required. Provides students with the opportunity to do a research or business development project under the supervision of a professor.

EX 721 Operations Strategy and Management (2.50 cr.)

Develops strategic and managerial understanding of production processes for goods and services in all types of organizations. Students use seminar-style active learning and discussion methods to connect the strategy of the encompassing enterprise to strategic perspective in operations and to relate operations to marketing, finance, and other functional areas of the enterprise. Topics include production process improvement methods, services and goods development strategies, total quality management, global project management, cross-functional teams, global communication and e-commerce, supply chain management, and world class operations. Site visits, video tours, case studies, software demonstrations, and guest speakers reinforce readings.

EX 777 Putting Values into Action (1.00 cr.)

The final component of the program, wherein students examine profiles of leadership (personally and professionally). Participants reflect on their values, their ability to meet the professional challenges of the twenty-first century, and their personal vision for the future.

ACADEMIC CALENDAR

FALL SEMESTER 2002

JULY 2002

8 **Mail-In and Web Registration begin for Fall Semester**

AUGUST 2002

9 **Mail-In and Web Registration end for Fall Semester**

20 In-Person Registration for Fall Semester: Baltimore Campus (except Education)*

21 In-Person Registration for Fall Semester: Columbia Campus (except Education)*

22 In-Person Registration for Fall Semester: Timonium Campus (except Education)*

22 Second Summer Session ends

23 Late Registration begins for Fall Semester

SEPTEMBER 2002

2 Labor Day (No Classes)

4 **Classes begin for Fall Semester, except Education and Modern Studies**

4 Applications due for January 2003 Graduation

10 Late Registration ends for Fall Semester

11 **Fall Semester begins for Education and Modern Studies**

OCTOBER 2002

NOVEMBER 2002

11 **Mail-In and Web Registration begin for Spring 2003 Semester**

13 **Last day to withdraw from a course with a grade of W for Fall Semester**

26 Thanksgiving Holiday begins after last class

27-12/1 Thanksgiving Holiday

DECEMBER 2002

2 Classes Resume

2 Applications due for January Psychology Preliminary and Comprehensive Exams

9-12 Exams and close of Fall Semester for Education and Modern Studies

12 **Web Registration ends for Spring 2003 Semester**

16-19 Exams and close of Fall Semester

23-1/1 Christmas Break

SPRING SEMESTER 2003

JANUARY 2003

3 **Mail-In Registration ends for Spring Semester**

7 In-Person Registration for Spring Semester: Baltimore Campus (except Education)*

7-8 Psychology Comprehensive Exams

8 In-Person Registration for Spring Semester: Columbia Campus (except Education)*

9 In-Person Registration for Spring Semester: Timonium Campus (except Education)*

10 Late Registration begins for Spring Semester

13 **Classes begin for Spring Semester**

13 Applications due for May 2003 Graduation

17 Late Registration ends for Spring Semester

20 Martin Luther King Jr. Holiday (College Closed)

TBA Speech-Language Pathology/ Audiology Comprehensive Exams

FEBRUARY 2003

3 Applications due for March Psychology Preliminary and Comprehensive Exams

MARCH 2003

- 3-9 Spring Break
 4 Psychology Advancement to
 Candidacy Preliminary Exam
 4-5 Psychology Comprehensive Exams
 10 Classes Resume
 21 Maryland Day Celebration
 28 **Last day to withdraw from a course with
 a grade of W for Spring Semester**

APRIL 2003

- 7 **Mail-In and Web Registration begin for
 Summer Sessions**
 15-16, Exams and close of Spring Semester
 21, 24 for Education and Modern Studies
 17-20 Easter Vacation
 21 Classes Resume
 29-30 Exams and close of Spring Semester for
 all other classes (continued in May)

MAY 2003

- 5, 8 Exams and close of Spring Semester for
 all other classes
 16 Baccalaureate Mass: Reitz Arena, 2:30 p.m.
 17 Commencement: Baltimore Arena,
 10:45 a.m.

SUMMER SESSIONS 2003

MAY 2003

- 12 **Mail-In and Web Registration end for
 early Summer Session**
 20 In-Person Registration for Summer
 Sessions: Baltimore Campus
 (except Education)*
 21 In-Person Registration for Summer
 Sessions: Columbia Campus
 (except Education)*
 22 In-Person Registration for Summer
 Sessions: Timonium Campus
 (except Education)*
 23-6/3 Late Registration for early
 Summer Session
 29 **Early Summer Session begins**
 29 Applications due for September 2003
 Graduation

JUNE 2003

- 2 Applications due for July Psychology
 Preliminary and Comprehensive Exams
 23 **Last day to withdraw from a course with
 a grade of W for early Summer Session**
 27 **Mail-In and Web Registration end for
 late Summer Session**

JULY 2003

- 3-4 Independence Day Observed
 (College Closed)
 7 **Mail-In and Web Registration begin for
 Fall 2003 Semester**
 10 Early Summer Session ends
 14 **Late Summer Session begins**
 14-15 Late Registration for late
 Summer Session
 22 Psychology Advancement to Candidacy
 Preliminary Exam
 22-23 Psychology Comprehensive Exams

AUGUST 2003

- 1 **Last day to withdraw from a course with
 a grade of W for late Summer Session**
 8 **Mail-In and Web Registration end for
 Fall 2003 Semester**
 19 In-Person Registration for Fall 2003
 Semester: Baltimore Campus
 (except Education)*
 20 In-Person Registration for Fall 2003
 Semester: Columbia Campus
 (except Education)*
 21 In-Person Registration for Fall 2003
 Semester: Timonium Campus
 (except Education)*
 21 Late Summer Session ends
 22 Late Registration begins for
 Fall 2002 Semester

* Consult individual departmental listings in the appropriate course schedule booklet for registration dates/times unique to each department.

Note: Pastoral Counseling, EMBA, and MBA Fellows Program dates differ from the dates shown above. All dates subject to change. Education students are encouraged to contact their academic adviser about course selection if they have questions.

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James E. Dockery, Associate Professor Emeritus of Fine Arts (Theatre)
Lic. Phil., M.Ed., Fordham University; M.A., S.T.M., Woodstock College

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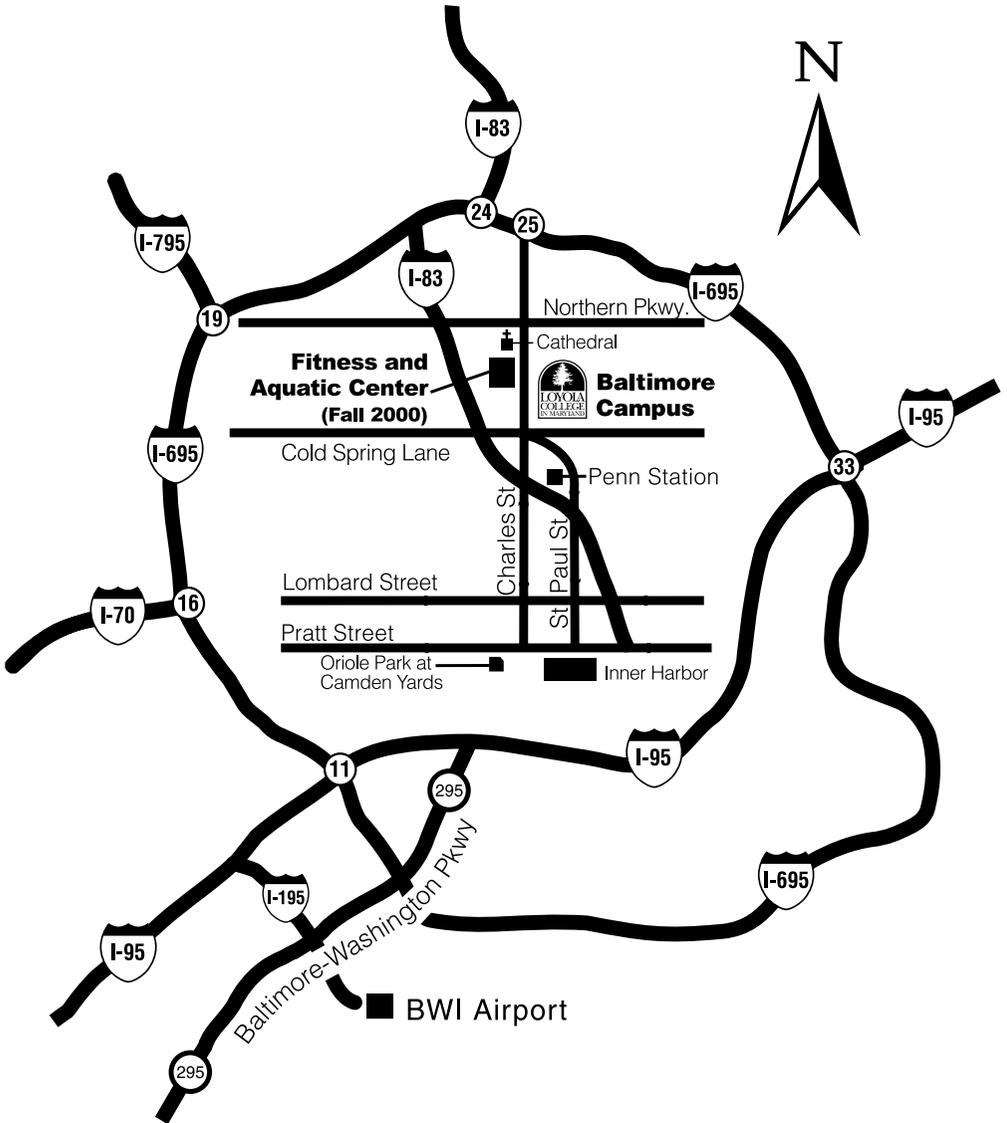
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MAPS

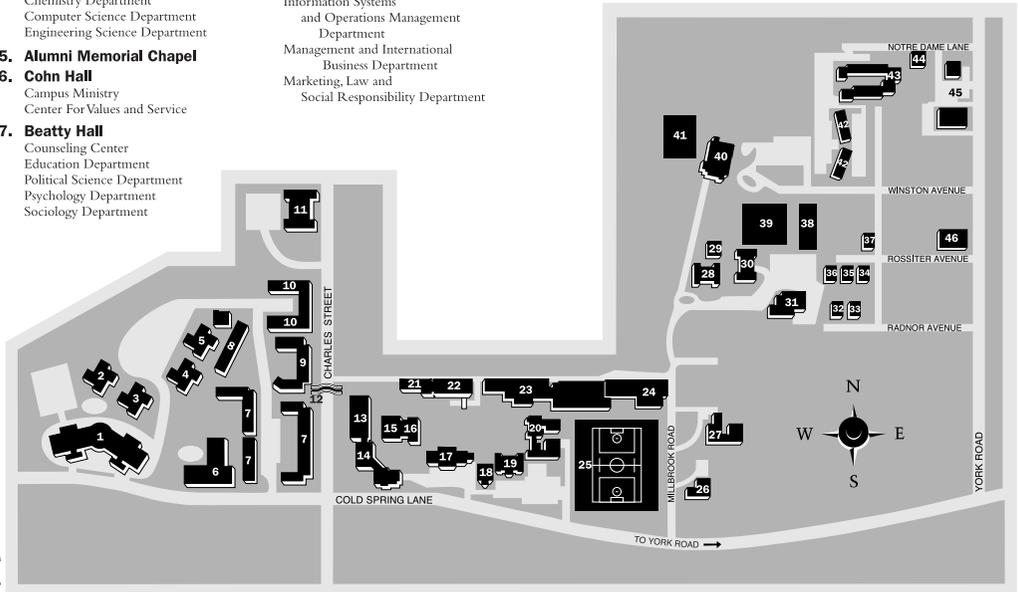
BELTWAY GUIDE

Loyola College in Maryland is located at the corner of Cold Spring Lane and North Charles Street in Baltimore City. When using I-695 (the Baltimore Beltway), take Exit 25 (Charles Street). Proceed south on Charles Street, just north of the Cold Spring Lane intersection. For information on campus office locations, consult the Campus Map.



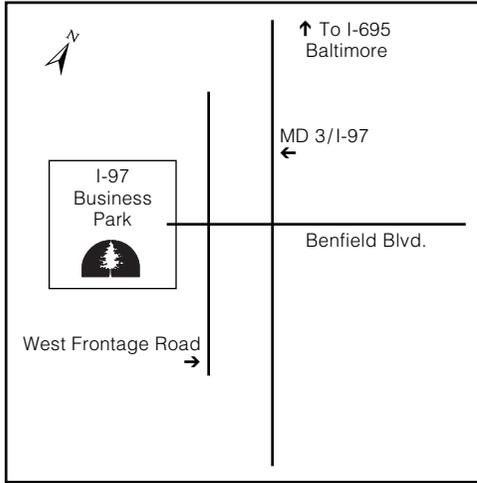
BALTIMORE CAMPUS

- 1. Newman Towers**
ATM Machine
Cyber Café
Environmental Health and Safety
Event Services and Auxiliary
Management
Logistics and Support Services
Margaret A. McManus-Moag
Speech and Hearing Center
Primo's: The New Marketplace
Sodexo Marriott Dining Services
Administrative and Catering Offices
Speech-Language
Pathology/Audiology Department
Stamp Machine
- 2. Avila Hall**
- 3. Bellarmine Hall**
WLOY Radio Station
- 4. Claver Hall**
- 5. Dorothy Day Hall**
Sand Volleyball Court
Television Production Center/Classroom
- 6. Campion Tower**
Studio Guilford
Telecommunications
- 7. Seton Court**
Alcohol and Drug Education and
Support Services
Health Services-Health
Education Programs
Student Life Office
Women's Center
- 8. Southwell Hall**
- 9. Hopkins Court**
- 10. Lange Court**
- 11. Fitness and Aquatic Center**
Recreational Sports
- 12. USF&G Pedestrian Bridge**
- 13. Knott Hall**
Campus Card Administration
Mathematical Sciences Department
Physics Department
Technology Services
- 14. Donnelly Science Center**
Biology Department
Chemistry Department
Computer Science Department
Engineering Science Department
- 15. Alumni Memorial Chapel**
- 16. Cohn Hall**
Campus Ministry
Center For Values and Service
- 17. Beatty Hall**
Counseling Center
Education Department
Political Science Department
Psychology Department
Sociology Department
- 18. Xavier Hall**
(Under Renovation)
- 19. Jenkins Hall**
Academic Affairs and Diversity
Academic Coordinator for
Varsity Sports
Government and Community
Relations
Human Resources Service
Center
Institutional Research
Resource Management
Study Center
Vice President for Academic Affairs
Vice President for Administration
and Finance/Treasurer
Vice President for Development
and College Relations
Vice President for Student
Development and Dean of Students
- 20. Rev. Francis X. Knott, S.J.,
Humanities Center**
Admissions
Graduate
Undergraduate
Alumni Relations
Classics
Communication Department
Dean-College of Arts and Sciences
Development
English Department
Financial Aid
Grant Services
History Department
Hug Lounge
Philosophy Department
Phonathon Center
Public Relations
Publications
Refectory
Theology Department
- 21. Sellinger School of
Business and Management**
Accounting Department
Copy Center
Dean - Sellinger School of
Business and Management
Economics Department
Finance Department
Information Systems
and Operations Management
Department
Management and International
Business Department
Marketing, Law and
Social Responsibility Department
- 22. Maryland Hall**
Academic Publications
Center for Academic
Services and Support
Dean of Freshmen and
Academic Services
International Programs
Instructional Technology
Language Learning Center
Modern Languages and
Literatures Department
Records
Student Administrative Services
Student Telephone Services
- 23. DeChiaro College Center**
Career Development and
Placement Center
Emil G. "Lefty" Reitz Arena
Sellinger VIP Lounge
Julio Fine Arts Wing
Art Gallery
Fine Arts Department
McManus Theater
Recital Room
- 24. Andrew White Student Center**
ALANA Services
ATM Machines (Allfirst, First Union
and Bank of America)
Athletic Department
Bookstore
Boulder Garden Café
Campus Box Office
Commuter Affairs
Cyber Café
Leadership and
New Student Programs
McGuire Hall
Post Office
Student Activities
Student Government Association
Student Mailboxes
- 25. John M. Curley, Jr., Field**
- 26. Armiger House**
President's House
- 27. Ignatius House**
Jesuit Community Residence
- 28. Hammerman House**
Fava Chapel
- 29. Maroger Art Studio**
- 30. Butler Hall**
- 31. Service Building**
Physical Plant
Public Safety Dispatch
- 32. 300 Radnor Avenue**
Center for Social and
Community Research
- 33. 302 Radnor Avenue**
Military Science/ROTC
- 34. 305 Rossiter Avenue**
McEaney Cottage
- 35. 301 Rossiter Avenue-
Justin Ocher House**
International Technology
Research Institute
- 36. Early House**
Military Science/ROTC
- 37. 304 Rossiter Avenue**
Campus Ministry House
- 38. Tennis Courts**
- 39. Butler Practice Field**
- 40. Loyola/Notre Dame Library**
- 41. Notre Dame Alumnae Field**
- 42. Ahern Hall**
- 43. McAuley Hall**
- 44. Aquinas House**
- 45. 5104 York Road**
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Parking and Transportation
Post Office Sorting Room
Public Safety Administration
- 46. 5000 York Road**
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Administrative Systems Development
Administration and Process Design
Archives
Financial Services
Controller
Payroll
Systems and Operations
Human Resources
Word Processing



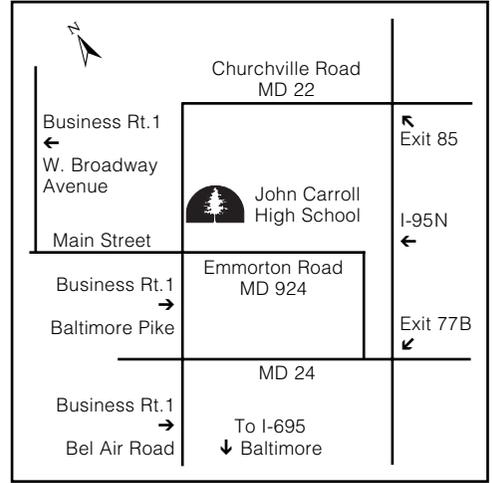
**Anne Arundel County Center
I-97 Business Park
1110 Benfield Boulevard, Suite F**

Take Route 97 to Benfield Road West. Continue past the first stop sign and turn right into industrial park.



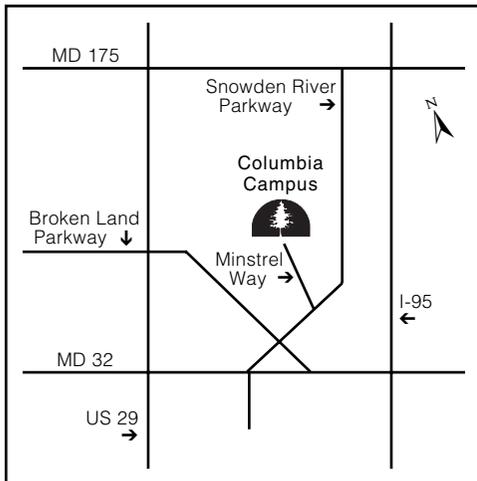
**John Carroll High School
703 Churchville Road**

Take I-95 North to Exit 77B. Go West on MD24 and turn right on Business Route 1/Belair Road. At fifth traffic light (Main Street), Belair Road becomes Churchville Road/MD22.



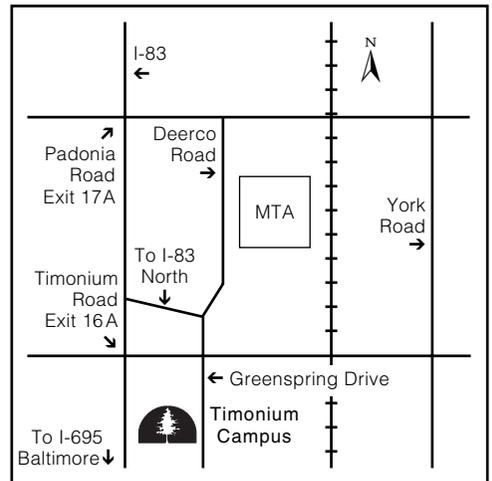
**The Graduate Center – Columbia Campus
7135 Minstrel Way**

From Baltimore: Take I-95 South to 175 West to Snowden River Parkway South to Minstrel Way West; **OR:** Take I-70 West to 29 South to 175 East to Snowden River Parkway South to Minstrel Way West. **From Washington, D.C.:** Take I-95 North to 32 West to Broken Land Parkway North. Turn right on Snowden River and left on Minstrel Way; **OR:** Take 29 North to 32 East to Broken Land Parkway North. Turn right on Snowden River and left on Minstrel Way.



**The Graduate Center – Timonium Campus
2034 Greenspring Drive**

Take I-83 to Exit 16A, Timonium Road East. Make first right on Greenspring Drive and right again into Timonium Campus (approx. 100 yards).



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