UNIVERSITY OF SCRANTON 1994-95 COLLEGE CATALOG

• Catalog conversion notes



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UNIVERSITY OF SCRANTON 1994-95

Where Potential Becomes Achievement in the Jesuit Tradition

Volume 79 June 1994

Scranton, Pennsylvania 18510-4699

The University of Scranton is a Catholic, Jesuit educational institution serving men and women, and is committed to affirmative action to assure equal opportunity for all persons, regardless of race, color, religion, national origin, ancestry, handicaps, sex or age

1994-1995 CALENDAR

SEMES	STERS		
FALL 1	1994	SP	RING 1995
Aug	27-28	Undergraduate Day School Student Orientation	
Aug	25	Dexter Hanley College Student Orientation	Jan. 28
Aug	29	Classes Begin	Jan. 30
Sept	5	Labor Day Holiday (no classes)	
Sept	7	Last Day 100% Tuition Refund	Feb. 8
Sept	7	Last Day to Add	Feb. 8
Sept	9	Last Day to Declare Pass-Fail Option	Feb. 10
Sept	14	Last Day 75% Tuition Refund	Feb. 15
Sept	21	Last Day 50%Tuition Refund	Feb. 22
Sept	28	Last Day 25% Tuition Refund and Last Day to Drop Classes	March 1
Oct	8	Fall/Spring Break Begins	March 11
Oct	17	Classes Resume	March 20
Oct	21	Quarter Ends; Last Day Credit to Audit	March 24
Oct	21	Incompletes to Fs	March 24
Oct	26	Quarter Grades Due	March 29
Nov	14	Last Day to Process Class Withdrawals	April 14
Nov	24	Thanksgiving/Easter Holiday Begins	April 14
Nov	28	Classes Resume	
		Classes Resume on Monday at 4:30 p.m./Tuesday at 7:00 a.	mApril 17/18
Dec	6-12	Dead Week (No Exams)	May 8-12
Dec	13	Final Exams	May 14
Dec	19	Semester Ends	May 20
Dec	22	Grades Due by Noon	May 23
		Commencement	May 28

SHORTSESSIONS

Intersession			Summer	Summer
			Session 1	Session 2
Jan	3	Classes Begin	June 5	July 10
Jan	4	Last Day to Drop/Add	June 6	July 11
Jan	4	Last Day 100% Tuition Refund	June 6	July 11
Jan	4	Last Day to Declare Pass-Fail Option	June 6	July 11
Jan	6	Last Day 50%Tuition Refund	June 8	July 13
Jan	13	Last Day Credit to Audit	June 16	July 21
Jan	20	Last Day to Withdraw	June 23	July 28
Jan	27	Final Exams Begin	June 30	Aug. 4
Jan	28	Session Ends	July 1	Aug. 5
Feb	1	Grades Due by Noon	July 6	Aug. 9

University of Scranton

Scranton, PA 18510-4699

(717) 941-7400

Day School Admissions Office (717) 941-7540

Dexter Hanley College Admissions Office (717) 941-7580

Office of Financial Aid (717) 941-7700

Office of the Registrar (717) 941-7720

Rev. J.A. Panuska, S.J., Ph.D., President of the University

The University of Scranton was founded in 1888 by Bishop William OHara. Originally called St. Thomas College, the University received its present name in 1938 and welcomed the Jesuit fathers in 1942. After a period of unprecedented growth in both size and quality, the University celebrated its Centennial in 1988 and faces the future with pride and confidence

Where Potential Becomes Achievement

The University of Scranton understands itself as a place "where potential becomes achievement in the Jesuit tradition." This statement is here elaborated in terms of the University's mission, its campus, its faculty, and its students

STATEMENT OF MISSION

 The University of Scranton is Catholic and Jesuit in both tradition and spirit. Committed to liberal arts education, the University has served primarily undergraduate men and women, but also serves graduate students, adult learners, and persons interested in continuing their professional education. Founded as St. Thomas College by the Bishop of Scranton in 1888, the institution moved to the administration of the Society of Jesus in 1942

The University of Scranton's chief concerns, as a university, are for learning and the truth. The University aspires to the kind of community for students and faculty in which learning will lead to personal growth and development. It strives to create the sort of environment in which the wisdom of past years can be preserved for the enlightenment of the future and in which the continuing search for truth can prosper. The University understands that freedom of inquiry and respect for the dignity and rights of all people must be protected for these hopes to be fulfilled.

- 2. Our Catholic tradition and spirit mean, first of all, that the University recognizes that the teaching and example of Jesus Christ are central sources of values and attitudes which should be reflected in the campus culture. Thus, Theology, as an intellectual effort to understand the data of divine revelation, is an important academic discipline at the University; and the University, although independently incorporated by the Commonwealth of Pennsylvania, stands firmly in the Catholic tradition and communicates this tradition in a systematic way. It also explores other traditions, for their intrinsic merit and for the contributions they can make to a better understanding of the Catholic tradition. The University thus does not intend to serve Roman Catholics in an exclusionary sense but rather to provide Catholic education in a properly ecumenical context for students from a variety of religious backgrounds and different value orientations
- 3. Our Jesuit tradition and spirit mean that the life of the University is inspirited with the vision contained in the Book of the Spiritual Exercises of St. Ignatius of Loyola, the founder (in 1540) of the Jesuit Order. This spirit is brought to the University not only by the Jesuits who live and work here, but, with ever increasing significance, also by their colleagues and students who may make their own this same vision through the personal experience of the Spiritual Exercises.

Translated into an educational context, this vision manifests itself in respect for the individual student as a unique person and in an emphasis on service, an open communication, on freedom of choice, on commitment to the value system contained in the Gospel of Christ. As Jesuit education grew, these characteristics manifested themselves in more measurable educational terms like clarity of thought, care for fundamentals, excellence in written and oral expression, reflection on personal experience, respect for the best in past human experiences.

4. The University is committed to liberal arts education; the University also affirms its emphasis on professional and pre-professional education. Though these aims may seem to be in some tension, the University believes that there is a creative relationship between laying the broad foundation that liberal arts education provides, and striving to serve the career-oriented expectation of its students and the needs of society for humanistically trained professionals.

In the Jesuit tradition, the liberal arts are defined in broad terms, comprising not only the humanities, but also science as well. (The breadth and richness of the Jesuit sense of the liberal arts is given one useful historical definition in the Society's Constitutions, Part IV, Chapter 12. See also the end of paragraph 2 of Section 3 above.) It is our goal, therefore, to provide a common foundation in the liberal arts to all of the program of specialization in the undergraduate schools and colleges. In line with the emphasis attached to the liberal arts, attractive majors in the traditional disciplines will be provided, and special care will be taken to foster excellence of teaching and library support for these fields

The University's strength in professional and pre-professional programs is expressed by a good range of career-oriented majors in the College of Arts and Sciences; the School of Management; the College of Health, Education, and Human Resources; and Dexter Hanley

College, as well as the Graduate School. The programs are designed to meet the standards of the appropriate professional fields, and also to develop students who have a clear sense of the ethical responsibilities which these fields demand of their successful practitioners

- 5. The University is committed to adult and non-traditional learners. This commitment, fulfilled in the various credit and non-credit programs offered by Dexter Hanley College, is rooted in the institution's Jesuit identity as well as its historical aim of service to the local community. This aspect of the University's mission is expressed in full harmony with its goal of educational quality.
- 6. The University is committed to excellent graduate education to the master "s level. This commitment, affirmed first with the creation of the Graduate School in 1950, has been reaffirmed. In the reaffirmation, the University related its graduate mission not only to its community service role, but also to its desire to promote faculty and student scholarship and research. Programs offered by the Graduate School are not only intended to serve the appropriate professional needs of the community, they are also intended to provide a balanced array of studies, reflective of the range of the University's resources in the humanities, the sciences, and the social sciences
- 7. The University serves not only the local community, but other communities as well. The University is committed to serving students from a wide geographical region within and beyond the borders of the United States, while at the same time retaining its special commitment to the community of northeastern Pennsylvania where it has its historical roots. It intends to build its on-campus resident population while maintaining the presence of commuter students from the metropolitan area
- 8. The University is committed to academic excellence. The pursuit of this goal touches all elements of the life of the University as outlined below. To excel is to move or to stand apart from a well-defined starting point. Our pursuit of academic excellence begins with an understanding of where we are and what we propose to do
- 8. 1 Students. We begin with a respect for the varying capacities of the students, a characteristic Ignatius of Loyola insisted upon for his schools. The University will include in its student body only those who are capable of serious academic work, but, given that initial norm, the University wants heterogeneity in its student body with respect to race, sex, religion, and socio-economic background. Moreover, the University intends to do all it can to serve the poor and to keep itself accessible to the range of socioeconomic groups it has traditionally served. Excellence in the student body is measured in terms of development of academic potential, respecting in every case the unique characteristics and varying capacities of students.
- 8. 2 Faculty. We begin with the acknowledgement that the quality of the University depends essentially on the quality of the faculty. We also propose to be a university that emphasizes good teaching. The University, however, takes the position that teaching is enhanced by serious scholarship and ordinarily will not last without it. Hence, excellence in the University's faculty is measured in terms of continued advancement in the quality, effectiveness, and vitality of classroom performance, as well as the continued application of faculty energy to research which advances human knowledge and may lead to publication for a scholarly audience beyond the University community. We regard teaching and research as complementary to, not in opposition to or competition with each other
- 8. 3 Administration. The starting point from which administrators advance is manifold. It presupposes credentials appropriate for leadership and management in an educational environment, experience with the special problems of that environment, and knowledge of, as well as being known in, the academic community beyond the University. Excellence is then measured along lines of improved knowledge of the University as an institution and a community, service to the constituencies of the University, ability and responsiveness to the needs of the University community, management of academic and financial affairs, effectiveness of planning, decision making, communication of plans and decisions to the University community, and impact in the realm of ideas and influences in the metropolitan area or beyond.

- 9. The University of Scranton is committed to the development of the student, including the individual "s moral development. The student is at the center of everything the University does. Our governance, instruction, and all related services, especially counseling services and academic advising, respect the uniqueness of the individual. The individual is viewed, however, as a member of a campus community and of a larger human community. The educational approach of Christian personalism regards the individual as a person-in-community. Education at the University of Scranton aims to sensitize the student to societal obligations as well as to the student's unique personal value. With total respect for an individual's freedom of choice and conscience, the University provides opportunities for worship and spiritual growth. Provision is also made for social development in a community environment. The social and intellectual dimensions of the campus community are value oriented, designed to foster in every student principled judgments and actions that are free, responsible, and humanly valid
- 10. The University of Scranton is committed, as one of the dominant institutions in northeastern Pennsylvania, to community service. The primary service rendered by the University to the area is the education of future leaders for the area's professional, political, religious, cultural and business communities. The University recognizes its responsibility, within its capability, to render technical and cultural assistance to members of these communities. Accordingly, the University actively participates in the efforts to improve the region"s economic and social environment. In addition, the University provides students, as students, with experience of the dominant social and economic problems of this region. It does so in order to assist them in systematic analysis of the problems of contemporary life and motivate them to contribute in some ways after graduation to the solution of these human problems.
- 11. The University acknowledges that being Jesuit in tradition and spirit means being experimental and innovative. A Jesuit university belongs at the forefront of Catholic intellectual life, interpreting the Church to the world and the world to the Church. It is in the Jesuit style to do, in education or any other work, what others cannot or choose not to do. The University therefore commits itself to the fostering of these characteristics from its well-established institutional base. The educational apostolate under Jesuit auspices is a means for promoting the greater glory of God through the lives of human persons. Accordingly, the object of education is not only the intellect but also the will, and indeed the whole human person.
- 12. The Statement of Mission is intended to give direction to all that the University does. Progress toward these ends will be measured first by the ability of each academic department and administrative unit to choose, and announce the choice of goals and specific objectives pertaining to each division of this Mission Statement. Second, progress toward our goals will be measured by the actual achievement of the stated objectives. The objectives, clearly stated, quantified, and specified within a time frame, will be means to the ends spelled out in this Statement

THE CAMPUS

Since 1956, a development program has added 30 buildings, including twelve residence halls. Principal among these campus structures are:

ALUMNI MEMORIAL HALL--Opened in 1960 as the Alumni Memorial Library, it was renovated in 1992-93 for instructional and administrative use. The Computing and Data Services Center, the Office of Instructional Development/Learning Resource Center, classrooms, offices for departments of Military Science, Institutional Research, and Psychology are located in this building.

SAINT THOMAS HALL--Located at the foot of the University Commons, this building is named for St. Thomas Aquinas and provides a symbolic historic link between the modern University of Scranton and its predecessor, St. Thomas College. It contains classrooms, language and communication laboratories, a small chapel, offices for the Registrar, Treasurer, Dean of the College of Arts and Sciences, Dean of the College of Health, Education, and Human Resources, Admissions, and Financial Aid. The HARPER-MCGINNIS WING, added in 1987, contains state-of-the-art equipment for the study of Physics, Electronics Engineering, Computing Sciences, and the Technology Center.

THE GALLERY--A multi-purpose academic building named in honor of former President Eugene Gallery, S.J., this houses Dexter Hanley College, a Media Resources Center with an audiovisual collection of more than 8,300 units, two large multi-media classrooms, the office of Career Services, the Counseling Center, a large quiet study area, and the University's art gallery.

JOHN J. LONG CENTER--Completed in 1968, and named for the former Jesuit President of the University, this three-level, multi-purpose structure has enabled the University to broaden its program of physical education. It includes a 22,820 square foot main floor area used for basketball, or convocations with a seating capacity of 4,400. It provides specialized facilities for such activities as wrestling, weight lifting, handball, tennis, and golf, as well as a physical therapy room and sauna.

LOYOLA HALL OF SCIENCE--Recently renovated and expanded, this structure houses highly specialized laboratories for the study of chemistry and biology

O"HARA HALL--Named in honor of Frank J. O"Hara, who served the University for over half a century, this building on the corner of Jefferson and Linden Streets houses the School of Management, and the departments of Nursing, Counseling and Human Services, Health Administration and Human Resources, and Education

GUNSTER MEMORIAL STUDENT ACTIVITIES CENTER-Expanded and renovated in 1993, the building includes expanded dining and kitchen facilities featuring the "Food Court" concept of dining. Also included are staff and student lounges, snack bar, game room, and the 400-seat Eagen Auditorium used for cultural events and dramatic productions. The building also houses the Offices of the Vice Presidents for Student Affairs and University Ministry, Student Government and Commuter Affairs.

JEFFERSON HALL--Houses both residence facilities and centers for special activities, radio and television studios, and a small auditorium. Offices, classrooms and laboratories for the Departments of Physical Therapy and Communications are located in this building

UNIVERSITYCOMMONSAND ROYAL WAY-Provides the University with a central campus environment. The Commons has a serpentine alignment with the area in front of the Gunster Memorial forming a focus for the campus. The area provides a major pedestrian link between Galvin Terrace, the University's outdoor sports center, the Gunster Memorial Student Activities Center, John Long Center, residence halls, and the heroic-sized sculpture of Jacob and the Angel." The Royal Way links the University dormitories with the Gunster Student Center and the Commons. It is marked at the north end by a ceremonial gateway and on the south end by the Centennial Fountain and statue of Saint Ignatius Loyola

ROCK HALL--This structure, with its ecclesiastical architecture, is located above the campus in the 400 block of Monroe Avenue. It houses the University's principal chapel, Madonna della Strada, and the Physical Plant Department. It is named after the late Joseph A. Rock, S.J., professor of history and academic vice president emeritus

WILLIAM J. BYRON RECREATION COMPLEX-Named for the Jesuit educator, formerly president of the University of Scranton and now president of the Catholic University of America, this structure was completed in 1986. It contains a large swimming pool, racquetball courts and other athletic and meeting facilities.

ELM PARK--By arrangement with the Elm Park United Methodist Church, the University now occupies two floors of its spacious parish building. This facility houses the Department of Sociology and Criminal Justice, as well as classrooms and faculty and student activities offices

HOULIHAN-MC LEAN CENTER--Named for two eminent School of Management faculty, this former church structure contains a large auditorium and offices and practice rooms for University bands and choirs.

SMURFIT ARTS CENTER--Another former ecclesiastical structure, located at the corner of Madison and Vine, this building houses offices and studios for the University's Fine Arts Department. It is named after a generous Irish benefactor, Michael Smurfit

THE ESTATE--Former residence of the Scranton family, and more recently of the Jesuit community, this magnificent structure now contains the offices of the University Provost, the Graduate School, and Research Services

SCRANTON HALL--The former carriage house to the Scranton mansion, erected in 1871, became the President's office in 1958 and was named for the Scranton family in 1964

HILL HOUSE--Named after the Rev. William B. Hill, S.J., Professor of English and Academic Vice-President Emeritus, this faculty residence and meeting facility is located at the eastern end of the campus on the corner of Webster and Linden Streets

CHAPMAN LAKE--The University's Conference and Retreat Center at Lakeside Pines provides 8 acres of recreation space only a 20 minute drive from campus in Montdale, Pa

RESIDENCE HALLS--Designed to function according to small-group living principles, ten residence halls, centered about terraced quadrangles, are provided. A Jesuit counselor lives in most halls and there is a resident assistant on each floor

To meet the increasing enrollment of resident students, the University has constructed two new dormitories. The first, opened in September 1985, is named Redington Hall to honor a generous benefactor, Francis E. Redington. The second, opened in August 1989 and functioning as a "residential college," is named Gavigan Hall after Vice President for Student Affairs Emeritus John R. Gavigan. The University also has recently acquired a series of houses and apartment buildings in the vicinity of campus and converted these to various types of student apartment complexes. Some of these are organized about academic interests and most feature optional kitchen arrangements. Finally, students in the upper classes are permitted to live off campus in non-university owned apartments.

LAVIS, McCORMICK AND GANNON HALLS-Completed in 1991, this 210-bed residence hall complex includes one large lounge per wing and smaller lounges on each floor and an apartment for the Associate Director for Residence Life

The standard plan for resident students includes living quarters, three meals on each class day, and brunch and dinner on weekends and mid-week holidays. The plan includes nursing service for emergency and short-term care in the infirmary. Further information is given in the section of the Bulletin which deals with expenses

CAMPION HALL--Named for Edmund Campion, 16th Century Jesuit scholar and martyr, this residence was built by the Society of Jesus in 1987 for its members who serve the University

HYLAND HALL--Completed in Fall 1988, this classroom building at the corner of Linden and Jefferson honors Kathryn and Bernard Hyland, parents of University alumnus and benefactor Bernard V. Hyland, M.D. This facility also houses the University bookstore

ALUMNI HOUSE--circa 1928, headquarters of the University of Scranton National Alumni Society

CENTENNIAL FOUNTAIN AND STATUE OF ST. IGNATIUS LOYOLA-The monument was constructed in 1988 in celebration of the 100th anniversary of the University and in recognition of the role of parents in education. Known as the "Celebration of Life," it is the gift of Mrs. Francis E. Redington, a former University trustee

HARRY AND JEANETTE WEINBERG MEMORIAL LIBRARY-Opened in 1992, this 80,000 square foot, five-story building is named for Harry and Jeanette Weinberg. Library holdings include 310,710 volumes, 2,059 periodical subscriptions, and 280,802 microforms. The facility includes group study rooms; quiet study areas; a twenty-four hour study room with a computer lab; a CD-ROM lab with approximately thirteen selected CD-ROM databases networked to allow as many as six to eight users simultaneous access, with additional CDs on stand-alone work stations; and the Heritage Room, a large reading room on the 5th Floor overlooking the campus and the community. The Heritage Room incorporates a motif reflecting the heritage of Scranton. The Media Resources collection, located in the Library building, holds 9,054 non-print items, including videocassettes, records, films, and flimstrips. The online public catalog displays Library/Media Resources collection holdings and availability of materials. Users may use terminals in the Library to access holdings in the online public catalog or dial in via a modem (941-7715)

The Library hours are posted on campus, on the online public catalog, and, on a recording (941-7525). It is open 95.5 hours per week, with extended hours during exam periods

CENTER FOR EASTERN CHRISTIAN STUDIES-The Center for Eastern Christian Studies at the University of Scranton serves as the focal point of several activities-- academic, pastoral and ecumenical -- all designed to promote the knowledge and understanding of the Christian East. The Center houses a Byzantine Rite chapel, a library of 15,000 books and a Rare Book collection, staff offices and a lecture-social hall.

McDADE CENTER FOR LITERARY AND PERFORMING ARTS-Completed in September 1993, this facility includes a "black box" studio theatre and a 300-seat main theatre, classrooms, writing lab, and offices for the English Department

WELLNESS CENTER--Acquired and renovated in 1993, this 6,000 square-foot structure, located at the northeast border of the campus, houses a precinct for the Scranton Police Department, Student Health Services, and the Drug and Alcohol Information Center

All University buildings are networked to other facilities on campus, and each dormitory student room has access to a voice, video, and data outlet

A FACULTY OF TEACHERS AND SCHOLARS

Over 250 faculty and administrators participate in the University's educational enterprise. They hold degrees from 135 different universities in 30 countries on five continents. Cambridge and the University of London in England; Louvain and the Gregorian on the Continent; the University of Calcutta in India, the Sophia University in Japan, Soochow University in China; Berkeley, Yale, MIT, Notre Dame and Georgetown in America-- all are represented among the faculty.

By its nature and function, a university faculty constitutes the most cosmopolitan element in a community. Hindu and Muslim, Christian and Jew, ministers and rabbis-- scholars and teachers all -- are found on the University's faculty.

The Jesuit tradition is carried on at the University not only by the 25 Jesuits engaged in teaching or administration, but by the fact that almost half of the faculty hold at least one degree from a Jesuit college or university.

As indicated in the Statement of Mission, excellent teaching and scholarship are regarded as complementary at this institution. Evidence of the latter is seen in the fact that numerous faculty serve on editorial boards of national and international journals, and two have served as principal editors -- Prof. David Friedrichs, Legal Studies Forum; and Dr. John Norcross, Journal of Integrative and Eclectic Psychotherapy. Further, Fr. Richard Rousseau, S.J., is founding editor of Ridge Row Press, which in 1988 expanded to become the University of Scranton Press and which specializes in philosophical and theological publications

The Directory at the conclusion of this Bulletin presents more detailed information about the faculty.

STUDENT DIVERSITY AND PARTICIPATION

As the faculty come from around the world, so do our students. Twenty-seven states and twenty foreign countries are represented in the University's student body of 5,000. In turn, through the Fulbright and Foreign Study programs, University of Scranton students matriculate at such foreign universities as Leuven, Madrid, Tubingen, Mainz, Oslo, Fribourg, Cologne, Berne, Strasbourg, the Sorbonne, and University College, Dublin. This interchange of students contributes to the diversity and intellectual life of the University.

Much of the work in this university community is accomplished through student input. Considerable scientific research at the University is done by undergraduate students in the laboratories and in the field. The University newspaper and yearbook are edited and managed by students. With faculty assistance, students publish articles and abstracts in national scholarly journals. Students work in the public relations and admissions offices, computer center, as resident assistants in the dormitories, as research assistants and interns for deans and the registrar. Similarly, they participate in the University's decision making. Seven students are elected by the student body to serve on the University Senate. Others serve with departmental chairpersons and faculty on the Conferences which recommend to the Deans changes in academic programs. Students also serve with other members of the University community on the various Search Committees which recommend candidates for the principal administrative posts from President to Dean

INDICES OF ACHIEVEMENT

The recently published Volume Two of the National Science Foundation (NSF) Project Kaleidoscope lists the University of Scranton in the top 15% nationwide for both the absolute number and proportion of graduates receiving baccalaureates in mathematics and the natural sciences during 1987-89. The University is ranked 26th in this category for graduates as a whole and as 40th (tied with Stanford) for women graduates

Working with dedicated faculty and staff to maximize their potential, students at the University of Scranton become achievers. Among over 26,000 alumni, the following might in particular be mentioned:

Patrick Cardinal O'Boyle ('16), Archbishop of Washington; Michael J. Eagen, Sr. ('27), Chief Justice of the Pennsylvania Supreme Court; Dr. Clarence Walton ('37), first lay president of the Catholic University of America; Dr. Glynn Lunney ('55), Chief of the Flight Directors Office for the National Aeronautics and Space Administration, lead flight director for historic moon flights of Apollo 11 through 15; Jason Miller ('61), winner of the 1973 Pulitzer Prize in Drama for That Championship Season and "Oscar" nominee for his role in The Exorcist; Paul Montrone ('62), president and managing director of the Henley Group, Inc., a Fortune 500 Company; Dr. Francis J. Castellino ('64), Dean of the College of Science, University of Notre Dame; Arthur W. Brown, Ph.D. ('37), former President of Mary Grove College and Adelphi University; Gerard R. Roche ('53), Chairman of the Board, Heidrick and Struggles, Inc.; and Robert F. Pugliese, Esq. ('54), Executive Vice President, Legal and Corporate Affairs, Westinghouse Electric Corporation

BACCALAUREATE SOURCE OF Ph.D.s

Achievement is also recognized in a recent study of the Office of Institutional Research at Franklin and Marshall College which shows that over a 66-year period (1920-86), the University of Scranton ranked 90th out of 877 four-year, private, primarily undergraduate institutions as the baccalaureate source of Ph.D.s in all fields.

MEDICINE AND LAW

The similarly excellent record of Scranton alumni in gaining acceptance to professional schoolsincluding the nation"s most prestigious -- is documented in the Pre-Medical and Pre-Law sections later in this catalog.

TRUMAN AND OTHER NATIONAL SCHOLARSHIPS

In recent years students from the University have won a number of highly competitive national fellowships, including those offered by the Mellon Foundation, the Danforth Foundation, the National Science Foundation, and the Harry S. Truman Memorial Foundation. Most remarkably, two sisters, Maria Mascaro (1984) and Carla Mascaro (1987), both were awarded four-year Truman scholarships. In 1988 Alice Batt, a double major in English and Philosophy, won a summer study grant through the National Endowment for the Humanities

NATIONAL ALUMNI SOCIETY

The Alumni Society of the University of Scranton provides a way for graduates to continue their participation in the life of the University after their student years. Its 18 regional alumni chapters include over 26,000 members throughout the country. The Society, which is governed by elected officers and a 28 member Board of Governors, fosters communication among alumni and encourages continued dialogue between alumni and the University community. It hosts alumni functions, including Reunions and Homecomings, and promotes the interests of the University by identifying prospective students, assisting the placement of graduates, collecting and preserving materials for University history, encouraging networking among its membership, providing numerous services and benefits, performing community service projects, and honoring student, faculty and alumni accomplishments.

FULBRIGHT AND OTHER INTERNATIONAL FELLOWSHIPS

Achievement also is recognized in the number of prestigious international fellowships awarded to graduates in recent years. In the last 23 years more than 80 Scranton students have been awarded fellowships in the competitions administered by the Institute of International Education (Fulbright) and International Rotary.

To date, four University students have been awarded Fulbright fellowships for the 1994-95 academic year, three of which are research fellowships. Margaret Mary Hricko, a biochemistry major, will conduct research at the University of Oviedo in Spain. Brian Zarzecki, a double major in history and political science, will spend the year in Windhoek, Namibia. Terrence Kossegi, who double majored in history and political science, will spend the year as a Fulbright Fellow in Islamabad, Pakistan. The fourth winner for 1994-1995 is Karis Lawlor, a triple major in German, English, and Secondary Education, who will spend her year in Germany as a Fulbright Teaching Assistant.

Seven members of the graduating class of 1993 also were awarded Fulbright fellowships. Timothy Gallagher, a double major in history and philosophy, is spending the year at Victoria University in Wellington, New Zealand. Jennifer Kelly, a double major in international studies and Spanish, is a Fulbright fellow at the University of the Republic in Uruguay. Beth LiVolsi, a nursing major, is conducting research at the University of Padua in Italy. Jennifer Seva, a biology major, is conducting her Fulbright research in Argentina. Colleen McInerney, an English major, is studying Australian drama at the University of Sydney. Alan Landis, who majored in international studies and Spanish, took up his Fulbright in Bogota, Colombia. Finally, Susan Kavalow, a secondary education major, is a Fulbright Teaching Assistant in South Korea. A list of the University's international fellowship winners since 1980 follows on succeeding pages

In recognition of Senator J. William Fulbright's contribution to international education through the Fulbright Program, the University of Scranton on May 29, 1983 awarded him an honorary degree

Dr. Susan Trussler of the Economics/Finance department is the University's Fulbright Program advisor.

AWARDS FROM INSTITUTE OF INTERNATIONAL EDUCATION **FULBRIGHT PROGRAM AND INTERNATIONAL ROTARY, 1980-1994**

1980 Veronica Cardiff Germany Stephen Carlin Switzerland Michael Corbley

Chile

	Maryann L. Heckman	Uruguay
	Helen Hricko Haney	Germany
1981	Patrick Cumberland	Uruguay
	Arlene Drack (ITT) Deborah Krzywiec	Norway Germany
	Irene Mlodzinski	Switzerland
	Mark Wisniewski	Switzerland
	Brian Wynne	Germany
1982	Michael Kondracki Bernadine Brennan-Moglia (ITT)	Peru Finland
	Kathleen Flanagan	Belgium
	Joseph Piccirilli	Germany
	Howard Sorensen	Uruguay
	Elizabeth Veca Leon Xavier Zawacki	Switzerland Germany
4000		·
1983	Erin Brennan Patrick Davies (ITT)	Germany Chile
	Peter Regeski	France
	Joseph Tuncavage	Switzerland
	Christopher Wahren	Germany
1984	Robert Conforti	Switzerland
	Kathleen Flanagan Colette Mazzucelli	France Switzerland
1985	John Beltrami Michele Gieger	Switzerland
	Marguerite Pedley	Germany New Zealand
	Louise Vogel	Germany
1986	Margaret Husosky	New Zealand
	James Lavelle Christopher Montone	Thailand Honduras
	Robert Rabecs	Philippines
	Janet Schubert	Belgium
	DeLoris Spegar	Singapore
	Roy Whitman Ann Marie Laskiewicz Ross	Switzerland South Africa
400=		
1987	Susan Conway Kathleen Gallagher	Germany Nepal
	Margaret Keen	France
	Kevin Wright	Finland
1988	Michel Aboutanos	Switzerland
	Jeffrey Gabello	Germany
	Christine O"Brien Mary Yuen	Kenya Singapore
1989	Kim Marie Newak	Germany
1990	Caroline Parente	Uruguay
1991	Daniel Jurgelewicz	Finland
1991	Thomas Spoto	Singapore
	·	-
1992	Maureen Cronin	South Korea
	Alissa Giancarlo	Germany

Thomas Kish Hungary Jennifer Murphy Denmark **Neal Rightley** Germany Salvatore Tirrito Finland Denise Udvarhely New Zealand 1993 **Timothy Gallagher** New Zealand Susan Kavalow South Korea Jennifer Kelly Uruguay Alan Landis Colombia Beth LiVolsi Italy Colleen McInerney Australia Jennifer Seva Argentina 1994 Margaret Mary Hricko Spain Terrence Kossegi Pakistan Karis Lawlor Germany

Namibia

RECENT INTERNATIONAL FELLOWSHIP WINNERS

Beth LiVolsi (1993) Italy

Alan Landis (1993) Colombia

Colleen McInerney (1993) Australia

Brian Zarzecki

Susan Kavalow (1993) South Korea

Jennifer Kelly (1993) Uruguay

Neal Rightley (1992) Germany

Salvatore Tirrito (1992) Finland

Jennifer Seva (1993) Argentina

Timothy Gallagher (1993) New Zealand

ACADEMIC PROGRAM

The University's academic program for undergraduates is offered through three day schools, the College of Arts and Sciences, the School of Management, and the College of Health, Education, and Human Resources; and through its division for non-traditional students, Dexter Hanley College. The schools share a common General Education program and offer baccalaureate degrees in 48 fields.

DEGREE PROGRAMS

The University offers the following degree programs for the undergraduate student:

BACHELOR OF ARTS

Classical Languages Communication

English French German History

Interdisciplinary Studies

International

Language Business

Philosophy Spanish

Theology and Religious Studies

BACHELOR OF SCIENCE

Accounting Biochemistry Biology Biophysics Chemistry

Chemistry-Business Chemistry-Computers Computer Information

Systems

Computer Science Criminal Justice Economics

Elementary Education Environmental Science

Finance

Electronics Engineering Electronics-Business

Gerontology

Health Administration Human Services International Business International Studies Liberal Studies* Management Marketing Mathematics Medical Technology

Medical Technolog Neuroscience

Nursing

Occupational Therapy Physical Therapy

Physics

Political Science Production and

Operations Management

Psychology

Public Administrationand Public Affairs

Secondary Education

Sociology

ASSOCIATE IN ARTS*

ASSOCIATE IN SCIENCE

Business Electronics Engineering

Computer Information Gerontology

Systems Health Administration
Criminal Justice Human Services

Political Science Public Administration

Sociology

*Available through Dexter Hanley College only.

Students entering the Physical Therapy program will earn a B.S. in Health Services after completing the first four years of a five-year program and a Master of Physical Therapy degree (M.P.T.) after completion of the fifth year.

THE SCRANTON PLAN

The product of a two-year study by a faculty-student-administration committee, the Scranton Plan seeks traditional Jesuit university educational objectives in the era of the knowledge explosion. In departing from a core curriculum of specifically required subjects, it acknowledges that there are today many more requirements for a liberally educated person than was formerly the case: disciplines, especially in the natural and social sciences, not known a century ago; foreign cultures thought insignificant only fifty years ago.

The University's General Education Curriculum, in seeking to equip undergraduates with the ability to communicate their knowledge effectively, takes note that there are today many more ways to communicate than in the past. Computer and other quantitative languages, applied fine arts as aesthetic languages, writing and oral communication laboratories may develop the ability to communicate with others and carry on the University's traditional emphasis on rhetoric as cogently as the study of Latin and Greek in the past, or even of modern foreign languages in today's world of intensified international relations. Different students will have different communication interests and it is a virtue of the Scranton curriculum that its flexibility can accommodate and utilize that interest.

Finally, the Scranton Plan takes note that students have criticized the absence of a study of values on American university campuses, the failure of the universities to deal with philosophies of life which provide the means to evaluate the norms of national and personal actions. The Scranton curriculum provides a significant place for the study of philosophy, the theological tradition of the student, and comparative religions. This too continues a traditional emphasis in the University's educational pattern but allows the student flexibility in choosing to meet third and fourth-year general education requirements through either theology or philosophy, in opening up more opportunities for the study of human values through related courses in psychology, sociology, environmental sciences, etc., and in making it more feasible to carry a double major in theology or philosophy along with the student's primary major.

CURRICULAR OUTLINE

Major Field of Concentration36 creditsCognates Related to Major24 creditsGeneral Education67 creditsResidency Requirements63 credit minimum, including the last 30 credits

Major: 36 credits in the major field of concentration is the normal amount. Some departments require less, the minimum being 30 hours with the unallocated credits going into the other curricular areas. Several departments, especially in the physical science area, require more than 36 hours, the additional credits coming from the cognate area and/or as overloads beyond the normal 127 credits needed for graduation. The specific departmental curricular models on subsequent pages of the Bulletin should be consulted. Students desiring to shape an interdisciplinary major should consult their Academic Dean on their program

Cognate: These are courses external to the major field of concentration, but which round out the student"s competence in his major through the study of related disciplines and subject matter, or through the acquisition of skills useful to his or her specific vocational goals. Normally the cognate area will consist of 24 credit hours, some of which may be specified by the department and others chosen by the student according to his or her particular interests or objectives

General Education: Shunning a merely technical or pre-professional educational, the majority (67) of the student's 127 credits toward the degree are devoted to a broad liberal education according to the following typical pattern

B. Distribution of remaining credits into broad areas of knowledge as indicated in the table

63 credits

In some instances, departmental recommendations are made with respect to the general education courses; departmental curricular models should be consulted. In fulfilling the distribution requirement, students ought ordinarily to complete at least five two-course sequences to provide depth as well as breadth in their general education

- C. **Communication Skills** --Unlike many college curricula, the Scranton curriculum does not require specific courses in English grammar. Rather, because of its recognition that writing and speaking effectively are skills necessary for success in college and in ones later professional life, the University of Scranton requires that students demonstrate basic competencies in written and oral communication before their junior year. Each of these competencies may be demonstrated by the students in one of the following ways:
 - 1. An examination supervised by Communication department faculty (for COMM. 100) and by English department faculty (for ENGL. 107). These examinations may be taken only by Freshmen and Sophomores who have not taken the course in the same skills area
 - Successful completion (a grade of C or higher) of courses set up to facilitate mastery of these skills: Communication 100 for oral communication; English 107 (or appropriate advanced standing course) for writing skills
- D. **Non-Classroom Activities --**With the approval of the Academic Dean and the department, the student is encouraged to petition beforehand that certain non-classroom activities such as internships, participation in artistic productions, sustained activity in political, social, or religious organizations, etc. be supervised, evaluated, and accepted for academic credit-normally in the Free Area of the General Education distribution

SERVICE LEARNING - CHEHR

The College of Health, Education, and Human Resources, in keeping with the Mission Statement of this University, is committed to teaching students how to incorporate theory into practice. The College believes that the best way to encourage students to participate in the communities around them in a productive way, is to introduce them to the academic, social, and civic needs of diverse groups of people through volunteer work in the community. The focus on Service-Learning will engender in students an appreciation not only of local issues but also of national and global issues with which they will need to be coversant during their professional lives

DOUBLE MAJOR PROGRAM

Students at the end of the first semester of freshman year or thereafter may elect to pursue a second field of concentration in addition to their first major. The permission of the appropriate Dean and the agreement of the two pertinent departmental chairpersons should be obtained in writing at this time and placed in the student's file. A second major will consist of all major and required cognate courses. Except for double majors involving Education and a content area, a second major will not be awarded for less than 18 credits in the second field which are not counted as part of the first major. The 67 credits in the General Education area need not, of course, be repeated. Students who wish to double major in any two of the majors in the History/Political Science department may not double count any of the credits required in the first major. Sixty-five students in the class of '91, sixty-eight students in the class of '92, and seventy-two students in the class of '93 graduated with double majors.

SECOND DEGREES

Persons with good scholastic records and a baccalaureate degree from a regionally accredited institution, who wish to earn a second baccalaureate degree, must apply to Dexter Hanley College. Requirements for a second degree are outlined on page 183

MINORS

Minors, which require a minimum of 15 hours, are currently available in the following fields: Art History, Biology, Business, Chemistry, Biochemistry, Coaching, Communication, Computer Information Systems, Computer Science, Criminal Justice, English, Foreign Language,

Gerontology, History, Human Services, Health Administration, International Studies, Mathematics, Music Literature, Operations Management, Philosophy, Physics, Political Science, Public Administration, Psychology, Sociology, Studio Art, Theatre, Theology, and Writing. Consult departmental listings for details.

Courses counted toward a major may not be counted toward a minor. However, courses counted toward a cognate or general education courses may be used to fulfill minor requirements

SUMMER SCHOOL

The University of Scranton annually offers a Summer School of two sessions to allow students to accelerate their degree programs or to make up courses that may not have been completed during the regular semesters.

TRANSFERRING CREDITS FROM OTHER INSTITUTIONS

A matriculating student at the University of Scranton can transfer in no more than ten (10) percent of the total credits in the student's program. A student transferring in from another institution will be limited to no more than ten (10) percent of the total credits remaining in the student's program. All students must meet the residency requirements which states that 63 credits including the last 30 credits must be taken at the University of Scranton. University of Scranton students who have completed their sophomore year (60 credits) are permitted to take courses only at other four-year regionally accredited institutions. Those who have not completed their sophomore year may be approved for courses at two-year or four-year regionally accredited institutions. Grades below C received elsewhere are not transferrable to the University; no grades from other institutions are computed into the student's grade point average. Permission to take courses at another institution is granted by the dean of the student's college. Students must obtain written permission before registering at another institution. Exceptions to this policy can be made by the student's dean.

MA IOD FIELDO

DISTRIBUTION TABLE

			MAJ	OR FIELD	S			
	General Education Areas	Nat. Sci. ‡ Math, Psych Comp. Sci Nursing ‡ Occupational Therapy, Physical Therapy ‡ Sec. Educ Bio., Chem., Math, Gen. Sci., Physics & Env. Sci.	HS HADM Sociology † Pol. Science Criminal Justice Economics Soc. Stys., Latin and Mod. Lang.	English History Modern Language Sec. Educ Eng., Comm., Operations Mgt.	Philosophy Theology International Business Management Marketing Production &	t	Accounting Finance	Elem.
1	Natural Science & Quantitative Studii (Natural Sciences Math, Psychology*, Adv Computer Sci., Statistics)	es , 	b 9	с 9	d 9	e 9	f 9	g 13
II	Social and Behavi Sciences (Sociology, HS, Economics, Pol. S Geog., Psychology*, M.S. 302, 401, 402, Edi	Sci., 12 . 301,		12	12	6	6	12
III	Communication (S Writing, Elementa Intermediate Languages**, Studio Art**, CMP 104, 108, 134, 144	ry and 9 S	9	9	9		9	9

IV	Humanities (Histo English and Fore Literature, Advan	ign						
	Language**, Art History, Music	18	18	6	18	18	18	18
V	Philosophy and							
	Theology***	6	6	6	6	6	9	6
	Philosophy	(6)	(6)	(6)	(6)	(6)	(3)	(6)
	Theo./Religious	. ,	` ,	, ,	. ,	, ,	` '	` ,
	Studies	6	6	6	6	6	6	6
	Free Area****	6	9	9	9	12	3	0

CREDITS

Specific reductions in General Education hours are allowed in certain natural science and health professional fields.

Sociology allows 12 credits in Free Area, and requires 21 credits in Area IV, Humanities

- Psychology 210, 230, 231, and 235 are Area 1; all others are Area II
- If a student has completed AREA III, as many as two elementary language courses and two intermediate language courses (all in the same language) may be used in AREA IV. The same provision applies for studio art courses. (Students should note (see p. 95) that Elementary language courses in any language are not available to students who have taken 2 or more years of high school work in that language
- Area V requires 6 credits in Theology (T/RS 121-122), 6 credits in Philosophy (Phil. 120 and Phil. 210), and 6 more in either field. Business majors also require Phil. 211
- **** The number of Free Area credits for the Secondary Education majors varies from one concentration to another. Consult pages 169 through 178 for requirements

FRESHMAN OPTION: GENERAL AREA STUDIES

Students not yet ready to declare a major have the option of selecting one of four General Areas of study (Humanities, Natural Science, Social Science, Business), with the particular major to be determined in consultation with the appropriate Dean's office by the end of freshman year. Curriculum outlines for the General Areas are indicated below. Students in the General Areas of Study will participate in a Freshman Year advising seminar

Gene	rai A	rea: Hui	manities [*]

General Area	i: Humanities"			
MAJOR/	Two sequences from Hist. 110-111,		Fall	Spring
COGNATE	Hist. 120-121, Engl. 140-164,			
	Comm. 110-120, Lang. 211-212		6	6
or 311-312	, 3			
GE AREA I	Nat. Sci./Quant.	Elective	0-4	0-4
GE AREA II	Social/Behavior	Electives	3	3
GE AREA III	Communications	Electives	3	3
GE AREA V	Phil. 120 or T/RS 121	Intro. to Phil or Theo	_	0-3
	Advising Seminar/Phys. Ed.	Advising Seminar/		
6 25 6 6	ravioling Comman, myor Lai	Phys. Ed.	1	1
	Total	yo. <u></u>	16/17	16/17
General Area	ı: Natural Science*			
MAJOR/	Two or three sequences from	8	1/2-13	81/2-13
COGNATE	Biol. 141-142, Chem. 112-113, Phys.	140-141.		
	Math 103-114, (or 114-21), Math 142	-		
	CMPS 134-144* *	,		
GE AREA III	Communications	Electives	3	3
GE AREA IV	Humanities* *	Electives	0-3	0-3

	Phil. 120 or T/RS 121 Advising Seminar/Phys. Ed.	Intro. to Phil. or Theo Advising Seminar/	o. 3	3
11110 2000	Advising Comman Tiyo. Ed.	Phys. Ed	1	1
	Total		1/2/17	151/2/17
General Area	: Social Science*			
MAJOR/ COGNATE	Two sequences from Psych 110-Elect Soc. 110-112, Soc. 110-Gero. 110, Pol. Sci. 110-111, Pol. Sci. 130-131, HS 111-112, Soc. 110-CJ 110, Educ. 222-121	tive,	6	6
GE AREA I	Nat. Sci. / Quant.	Elective	0-4	04
GE AREA III	Communications	Electives	3	3
GE AREA IV	Humanities	Electives	3	3
GE AREA V PHYS EDUC	Phil. 120 or T/RS 121 Advising Seminar/Phys. Ed.	Intro. to Phil. or Theo Advising Seminar/	o. 0-3	0-3
	ŷ ,	Phys. Ed	1	1
	Total		16/17	_
General Area	: Business			
MAJOR/	Econ. 153-154	Prin. of Micro.		
		Macro. Econ.	3	3
GE AREA I	Math	Math Option	3/4	3/4
GE AREA III	Communications	Electives	3	3
GE AREA IV	Humanities	Electives	3	3
GE AREA V		Intro. to Phil-Theo.	3	3
PHYS EDUC	Phys. Ed.	Phys. Ed	1	1
	Total		16/17	16/17

- * Students in General Areas of Humanities, Natural Science, and Social Science will select courses in consultation with Dr. Mary Engel, Associate Dean of CAS, and the faculty advisors in the Academic Advising Center.
- ** Natural Science students who select only two MAJOR COGNATE sequences will take two Humanities courses in place of a third sequence. Students who select Phys. 140-141 must also take Math 114-221. Students who select CMPS 134-44 must also take Math 142-114

Recommended Curriculum for Biology Majors -- The pre-medical advisor is Dr. Joseph Evans, Professor of Biology. He recommends the following structured curriculum for pre-professional students majoring in biology. Completion of this sequence of courses will satisfy all requirements for the biology major.

ACADEMIC REGULATIONS

DEGREE REQUIREMENTS

Students beginning the first term of their degree/certificate program (matriculating) at the University of Scranton in the 1994-95 academic year are thereafter governed by the curricular policies stated in this catalog. Requirements governing a student's major are those in effect at the time a major is formally declared and approved. If changes are made in subsequent editions of the catalog to either general requirements or major requirements, students may be permitted the option of following their original program or subsequent catalog version, but the University always reserves the right to determine which requirements apply.

If a student interrupts his/her education without a leave of absence, the catalog requirements in effect at the time of readmission will apply. Students on an approved leave of absence retain the same requirements they had when they matriculated, if their leaves do not extend beyond a year. In order to earn a bachelor's degree from the University of Scranton the student must complete all the courses prescribed in the curriculum table of the major. No student will be eligible for graduation who has not removed all failures in required courses or who has not earned the necessary minimum 2.00 (C average) Grade Point Average

Students must maintain a 2.00 GPA in the major and required cognate courses; students who do not meet this standard may be placed by their dean in a "Goal Attainment" semester (for students determined to raise the GPA and remain in the major), and "Exploratory" semester (for students wanting to explore possible new majors), or allowed to change to a new major (if the department of the new major approves the requested change). Students must either meet the standard in the original major or change to a new major within two semesters (in the case of Dexter Hanley College, within 30 credits). Students who remain in the "Goal Attainment" and/or "Exploratory" semester program for more than two semesters will be subject to dismissal by their dean

The University of Scranton provides the opportunity for students who have completed degree requirements to graduate at one of four points throughout the academic year: Summer graduation (graduation date: August 31), Fall graduation (graduation date: December 31), Intersession graduation (graduation date: January 31), and Spring graduation (graduation date is the actual date of the Commencement exercises, published in the academic calendar at the beginning of each academic year). Commencement exercises are held once in the academic year, following the completion of spring semester. Normally students who are certified for graduation for Summer, Fall, Intersession, or Spring graduation may participate in the Commencement exercises

Certification of graduation, receipt of a degree, and permission to participate in the Commencement exercises is not automatic. Seniors expecting to complete degree requirements in time for Spring graduation must make formal application through the Registra's Office or Dexter Hanley College by February 15. Students who are expecting to complete degree requirements for Summer, Fall or Intersession graduation must make formal application a minimum of four weeks prior to the end of the appropriate term.

GRADING SYSTEM

Grade reports are mailed to all students at the end of each semester and these become part of the official record of the student. Freshmen receive mid-semester grades to inform them of their progress. Upperclass students receive notice at the quarter if they are "deficient" and in danger of failing the course at that time.

A, A- Excellent (outstanding and/or original work)

B+, B, B- Good

C+, C Satisfactory

C-, D+, D Passing but well below average

F Failure (below minimum acceptable standards)

W Withdrew officially; deadline is one month before the last day of classes for the

semester.

I Incomplete must be removed by mid-term of following semester

IP In Progress must be removed by the last day of the following semester. (Normally

for honors thesis classes only.)

S, P Satisfactory, Pass-not figured in Grade Point Average

U Unsatisfactory-equivalent to failure

Audit Course not taken for credit

AUDIT: Entry of the audit grade, (AU), on a transcript assumes satisfactory attendance at class meetings. The student should consult with the instructor as to what constitutes satisfactory attendance. A change to audit can be made only by passing students and before the end of the first half of a semester.

INCOMPLETE: If a course has not been completed because of illness or some other serious reason, an Incomplete may be given. To remove this grade the student must satisfy all course requirements by the mid-term of the following semester. Any course not completed by this time will result in a grade of F.

REPEAT OF COURSE: Special permission is not needed to repeat courses. The recording of grades for repeated courses shall be governed by the following conditions: 1) Credit for a course will be granted only once; 2) Credit for the course will be lost if the course is repeated and failed; 3) The most recent credit and grade will count toward the GPA with this exception a"W" grade cannot replace another grade; 4) Each attempt to complete a course will be reported on the students transcript.

CHANGE OF GRADE: A student who believes the grade received for a course is unreasonable should first appeal the matter to the professor, whose decision is normally final. The student has the right, however, to appeal to the faculty member's chairperson, who will make a recommendation in writing to his or her Dean. The student may request the Dean to review the matter. The decision of the Dean is final. Ordinarily, no grade change will be considered unless it has been raised to the level of the Dean's office within one month from the time the original grade was mailed to the student.

COURSE NUMBERING SYSTEM

Courses appearing in this bulletin are numbered according to the system described below. The *first* digit of any course number indicates the *level* of the course; the *second and third* digits specify *categories* of courses. Levels at which courses are offered include the following:

100-199	introductory courses	400-499	advanced undergraduate
			courses
200-299	lower division courses	500 and above a	re graduate courses
300-399	upper division courses		

In cases where no specific prerequisite is listed, courses at the 300 or 400 level assume Junior or Senior standing and appropriate background in the discipline of the course

Categories in which courses are offered are indicated according to the following system: ___00-___09 General education courses Independent study courses 82- 83 not available for major (182-183, 282-283, credit (100-109, 200-209, 382-383, 482-483) 300-309, 400-409) 84 Special topics (184, 284, _10-___39 Courses which may apply 384, 484) either to major or general edu-85- 89 Honors Courses (185-189, cation requirements (110-139, 285-289, 385-389, 485-489) 210-239, 310-339, 410-439) 90- 91 Seminars (190-191, 290-291, _40-____79 Courses available for major 390-391, 490-491) (also minor and required 92-Service Learning (192, 292, cognate) credit (140-179. 392, 492) 240-279, 340-379, 440-479) 80-___81 Practicum, Internship or Co-op ___93-___94 Research (193-194, 293-294, courses (180-181, 280-281, 393-394. 493-494) 380-381, 480-481) Travel courses (195-196, _95-___96 295-296, 395-396, 495-496) 498-499 Thesis

Labs are indicated by an **L** following the number of the corresponding lecture courses. Courses in the Special Jesuit Liberal Arts Program are indicated by a**J** following the course number; those in the Honors Program are indicated by an **H** following the course number. Specific pre-requisites are listed, where applicable, preceding individual course descriptions in this bulletin

GRADE POINT AVERAGE

A standard used in judging a student's performance is the Grade Point Average, determined as follows:

Each semester hour of credit with a grade of A is valued at 4 quality points; A- at 3.67 quality points; B+ at 3.33; B at 3.0; B- at 2.67; C+ at 2.33; C at 2.0; C- at 1.67; D+ at 1.33; D at 1.0. An F

yields no quality points. Thus, for example, a three-credit course with a grade A yields 12 quality points; a B yields 9; a C yields 6.

The Grade Point Average, commonly abbreviated GPA, is computed by dividing the total number of Quality Points earned by the total of grade point average credit hours. For example, 15 credit hours, all at C grade, would earn 30 Quality Points or a 2.0 GPA (3015).

The total number of grade point average credit hours includes those courses with final grade F as well as A, B, etc.; CR, I, P, S, W, TC and U credit do not count toward the GPA. This Grade Point Average applies only to courses taken at the University of Scranton and is not affected by credit transferred from other colleges.

A Grade Point Average listing is made at the end of each semester. On the basis of his or her cumulative Grade Point Average, a student's rank in class and eligibility for honors at graduation are determined.

GRADUATION HONORS

To be eligible for graduation and for honors at commencement, a student must have completed a minimum of 63 credit hours of work at the University of Scranton

Summa cum laude
3.85 Grade Point Average in all subjects
Magna cum laude
3.65 Grade Point Average in all subjects
cum laude
3.50 Grade Point Average in all subjects

DEANS" LIST

To be eligible for the Deans' List, College of Arts and Sciences, School of Management, and College of Health Education, and Human Resources students must earn 12 or more credit hours which count toward the semester GPA (credit hours of "P" and "S" grades are not counted toward this requirement). Dexter Hanley College students need to complete 6 or more credit hours which count toward the semester GPA to be eligible for the Deans' List. Of the eligible students, those who earn a 3.50 or higher semester GPA and no grade of D, D+, F, I, NG, or U are named to the Deans' List for that semester. Students placed on the Deans' List will have this distinction indicated on their transcript. A student's GPA will be recalculated when the last temporary grade (I, IP, NG) is replaced by a final grade. If this new GPA meets the above standard, the student will be placed on the Deans' List.

PROBATION AND DISMISSAL

One semester of probation is granted to students whose GPA falls below 2.0, or who otherwise are in danger of dismissal. A second semester of probation is not automatic; a student who does not remove himself or herself from probation after one semester is subject to dismissal, unless excepted by the appropriate dean. Students who receive an F while on probation are also subject to dismissal, as is any student who incurs two F's in one semester, or who has accumulated three F's which have not been successfully retaken. Probationary status may be removed through adequate achievement in summer school or January intersession at the University of Scranton

Students on Academic Probation are allowed to take no more than 14 credits (in Dexter Hanley College, no more than 12 credits) during the fall or spring semesters without explicit written approval of the appropriate Dean. Students on academic probation are ineligible for participation in extra-curricular activities without the express written approval of the moderator, the student's academic advisor, and the student's dean.

A student placed on academic probation for a second semester may not participate in any extracurricular activity until such time as he/she is formally removed from academic probation

It is University policy in the case of a student dismissed from another institution or a college of the University itself that this student will not be allowed to register for courses in any of the colleges of the University in the semester following dismissal

If a student who has been dismissed from the University wishes to apply for readmission to the University, he/she may do so no sooner than one full semester after the semester in which the dismissal took place. Readmission is not automatic; the student will need to demonstrate that the

conditions which led to his/her dismissal will not present a continuing problem. If a student is dismissed a second time from the University, he/she may not apply for readmission

ABSENCE FROM CLASS

Freshmen are limited by University regulations to twice as many absences as class meetings are held per week in a particular course. Thus six cuts are allowed by freshmen in courses that meet three times a week, four cuts in courses that meet twice a week. Upperclassmen have unlimited absences unless the particular professor or the department promulgates in writing some other policy. However, the professor may not promulgate a policy that is stricter than the freshman policy on class absences.* In any event, students miss class at their own risk. Any student who exceeds the cut policy is subject to a failing grade in that course. These regulations cover all absences for whatever reasons.

*Exceptions to this restriction require the approval of the department chairpersons. In summer and intersession courses no student is allowed more than two cuts

PASS-FAIL OPTION

Students whose GPA is 2.67 or better may elect to take some courses on a pass-fail basis. Students choosing the pass-fail grading option for a course must file the appropriate form in the Registrar's Office by the end of the second week of the semester (or by the second day of an intersession or Summer session course). Specifically required courses, whether in general education or a major, MAY NOT be taken on a pass-fail basis; introductory courses available only for general education credit (i.e., those numbered 101-109) MAY NOT be taken on a pass-fail basis; courses in a student's major, minor, or cognate MAY NOT be taken on a pass-fail basis. Students may not take more than one academic course at a time on a pass-fail basis; no more than one course per year, on average (other than internships, practice, or physical education courses), during their degree programs

READER COURSES (INDIVIDUAL STUDY)

The primary purpose of a reader course is to enable a University of Scranton student to pursue a course of study not otherwise offered during the term the reader is taken. Readers may NOT ordinarily be used to fulfill general education requirements. Students may take no more than one reader per term, nor more than one reader per year, on average, during the course of their degree programs. Readers are to be taken for the same number of credits as are granted similar courses in the discipline in which the reader is offered. Readers may not ordinarily be used to repeat failed courses. Exceptions to these policies must be approved by the dean of the students college and by the dean of the school offering the course

DROPPING AND ADDING CLASSES

Registered students may request their dean's permission to add classes until the last day for a 100% tuition refund. The last day to add classes and for a 100% tuition refund is usually the tenth calendar day from the first day of classes for a semester and the second calendar day from the first day of classes for intersession or summer session. (See the University Calendar, inside front cover of this catalog.)

Students who wish to drop one or more classes, but who plan to continue attendance in at least one other class during the term, need to secure their dear's permission to drop classes. Classes may be dropped until the last day for a tuition refund of any amount. (See Schedule of Refunds, p. 233.) The last day to drop courses is usually the thirty-first calendar day of a semester and the fourth calendar day of intersession and summer session. (See University calendar, inside front cover of this catalog.) A drop is treated as if the student never registered for the course

WITHDRAWAL FROM A COURSE

A student wishing to withdraw from a course should first discuss the matter with the instructor. Withdrawal always entails financial loss. After the partial tuition refund period ends, dropped courses will be recorded on a student's academic record with a "W." Students who wish to withdraw from one or more courses, but who plan to continue to attend at least one course for the term, need to secure the teacher's signature(s) of any dropped course and the student's dean's approval.

Those students who wish to drop their last course(s) must complete the Withdrawa/Leave of Absence Form. The completed form must be taken to the Office of the Registrar or to Dexter Hanley College (D.H.C. students). Failure to withdraw from a course(s) may result in a failing grade(s).

The deadline for course withdrawal is indicated on the University academic calendar. This deadline is approximately 30 days before the last class day for the semester and a proportionate period of time for a short session.

WITHDRAWAL FROM THE UNIVERSITY

Students wishing to drop or withdraw from their last course(s), thereby discontinuing their enrollment, *must* secure their dean's permission to withdraw from the University. Students should also discuss any questions with their advisor(s). The form for withdrawal may be obtained in the Registrar's Office or the Dexter Hanley College office. University withdrawal is not official until all signatures required on the Withdrawal/Leave of Absence Form have been obtained *and* the form is delivered to the Registrar's Office or Dexter Hanley College (D.H.C. students)

Any tuition refund will be determined by the official date of University withdrawal. No grades will be recorded on the student's academic record, if the official University withdrawal date is on or before the last day for 25% tuition refund. "W"s" will be recorded for course work if the official University withdrawal date coincides with the course withdrawal period. Final grades will be recorded for course work, if the official withdrawal date is after the course withdrawal period for the term

A student who fails to enroll for a semester and has not arranged for a leave of absence, must apply for readmission to the University and if accepted, will need to satisfy the catalog requirements in effect at the time or readmission

LEAVE OF ABSENCE

Students may request their dean's approval for a leave of absence by completing the Withdrawal/Leave of Absence Form. Graduation requirements in effect for the students at the time the leave begins will remain in effect for those students when enrollment is resumed at the end of the leave on the following conditions:

- * students on a leave of absence may not take coursework at another institution without first securing written approval from their dean;
- * the leave is limited to one semester, but may be renewed for one additional semester by the student"s dean (documentation may be requested by student's dean);
- * ordinarily the students must be in good academic and disciplinary standing at the University when the leave begins;
- * students on leave must place their address and phone number on file in the Registraïs Office and promptly report any address/phone number changes to that office or Dexter Hanley College (D.H.C. students);
- * it is understood that this policy does not bind the University to offer the students curricula or major programs which may have been discontinued or substantially altered during their leave of absence.

GENERAL REGULATIONS

Ordinarily, all entering students - both freshmen and transfer students - are held to the requirements in the catalog of the year in which they enter

The University reserves the right to change any of the rules and regulations in this catalog. All such changes are effective at such times as the proper authorities determine and may apply not only to prospective students but also to those who are already matriculated in the University. However, curricular changes shall not become effective until published in the catalog unless specifically approved for an earlier implementation date by the appropriate body. If a change is approved for implementation prior to its publication in a catalog, the appropriate school, department, or program shall inform students affected by the change. Application of policies,

rules, and requirements, including changes thereto, may be appealed to the dean of the students college.

The University reserves the right to take appropriate disciplinary action in the case of any student who conducts himself or herself contrary to the standards of the University. These standards (particularly in the area of Academic Integrity), are given clear expression in the faculty and student handbooks of the University. The University also reserves the right to modify admissions requirements, the right to change tuition and fees charges, and the right to change the semester schedule of courses.

HONOR SOCIETIES

Those National Honor Societies which are represented in the University of Scranton are listed below in order of the foundation of the local chapters. An asterisk (*) after the name indicates that this National Honor Society is a member of the Association of College Honor Societies

ALPHA SIGMA NU*

The National Jesuit Honor Society founded in 1915 with chapters in 28 Jesuit universities throughout the United States. The Scranton chapter was founded in 1943, the oldest Honor Society in the University. It is the only Honor Society open to students and faculty in all disciplines and all colleges of the University. Its admission standards are the most rigorous. The Greek letters signify *adelphotes skolastikon nikephoron*-brotherhood of honor students. Juniors and Seniors who have distinguished themselves in scholarship, loyalty and service are eligible for membership. Appointment is made by the President of the University on the recommendation of the moderator and nomination by chapter members of the Society. From 1982-1985, Dr. William Parente, Professor of History and Political Science, served as national president of the 20,000 member organization.

The Society annually presents the Alpha Sigma Nu University award for teaching. The recipients of the Award:

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1969
          Prof. Lawrence Mann †
          Prof. Frank Brown †
1970
          Prof. Thomas Garrett
1971
          Prof. Michael DeMichele
1972
1973
          Prof. Bernard Williams
1974
          Rev. Bernard Suppe, S.J.
          Rev. Edward Gannon, S.J. †
1975
          Prof. Robert A. Sallavanti
1976
1977
          Prof. John P. McLean
          Prof. Charles J. Thoman
1978
          Prof. Urban von Wahlde
1979
1980
          Prof. J. Brian Benestad
1981
          Atty. John J. McGee
1982
          Prof. Harold Baillie
          Prof. E. Springs Steele
1983
          Prof. John Earl
1984
          Prof. Michael C. Cann
1985
1986
          Prof. Joseph T. Evans
1997
          Prof. Richard Klonoski
1988
          Rev. Ronald H. McKinney, S.J.
          Prof. Stephen Whittaker
1989
          Prof. Brian W. Carpenter
1990
          Prof. Susan Mathews
1991
1992
          Dr. Willis M. Conover
1993
          Dr. Robert L. McKeage
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PHI ALPHA THETA*

International Honor Society in History. Basic requirements: 12 credits in History; Grade Point Average -- General 3.0, 3.1 in History. The mu rho chapter was established at the University in 1967.

DELTA MU DELTA*

National Honor Society in Business founded in 1913. Basic requirements: a Grade Point Average of 3.35 with a major in Business or Accounting. The local omega chapter was established in 1968-69.

SIGMA PI SIGMA*

National Honor Society in Physics for undergraduate and graduate students founded in 1921. Its chapters are restricted to colleges and universities of recognized standing which offer a strong physics major. The local chapter was founded in February 1969

OMICRON DELTA EPSILON*

National Honor Society in Economics. Basic requirements: 12 credit hours in Economics with a General GPA of 3.2 and a 3.0 average in Economics. The local xi chapter of Pennsylvania was founded in May 1969.

PSI CHI*

National Honor Society in Psychology, founded in 1931. This organization has established chapters in 759 colleges and universities in all 50 states. The local chapter was installed in May 1969. Minimum qualifications include a major or minor in psychology, rank in the top 35th percentile in general scholarship, and superior scholarship in psychology

PHI DELTA KAPPA

International professional fraternity for men and women in education. Membership is limited to graduate students and teachers. Local chapter founded in 1970

PI GAMMA MU*

International Honor Society in Social Science. Founded in 1924 to improve scholarship in the social sciences and to encourage inter-disciplinary study. Basic requirements: at least 60 hours of academic work, an overall GPA of at least 3.25, with at least 21 hours in the disciplines of economics, psychology, sociology, political science, andor history with a GPA of at least 3.33

ALPHA SIGMA LAMBDA

National Honor Society to encourage scholarship and leadership among adult students in continuing higher education. The alpha upsilon chapter was installed here in 1972

ETA SIGMA PHI

National Honor Society for students of Classical Languages. The Scranton epsilon gamma chapter was founded in November 1972

PI MU EPSILON

National Honor Society for Mathematics Majors in Junior or Senior year with a general Grade Point Average of 3.0 and a 3.0 average in Mathematics. The local Pennsylvania mu chapter was installed in February 1973.

ALPHA MU GAMMA

National Honor Society for students of Foreign Languages. Founded in 1931. The Greek letters signify *amphi mouse glosson:* for the muse of languages. The Scranton chapter of theta iota was installed in May 1973.

DELTA SIGMA RHO-TAU KAPPA ALPHA*

National Honor Society in Forensics. Founded in 1963 through merger of societies founded in 1906 and 1908 respectively. The local chapter began in 1975

DELTA TAU KAPPA

International Social Science Honor Society founded in 1961 is dedicated to high scholastic achievement. The Pennsylvania beta chapter was installed at the University of Scranton in October 1975. Requirement: GPA of 3.5 and 20 credits in social science

PHI LAMBDA UPSILON

National Honorary Chemical Society established in 1899. The Scranton beta kappa chapter, one of 60 chapters nationwide, was installed in October 1975. For students with 24 credits in chemistry and a 3.0 GPA.

ALPHA EPSILON DELTA*

The National Premedical Honor Society founded in 1926. The Pennsylvania iota chapter was installed at the University in May 1976.

THETA ALPHA KAPPA

National Honor Society in Theology and Religious Studies founded in 1976 at Manhattan College. The University of Scranton alpha nu chapter was installed on April 4, 1980. Twelve credits in theology with a 3.5 GPA are needed for membership

SIGMA TAU DELTA*

National Honor Society in English founded in 1924, this organization is for students who major or minor in English and rank in the top 35 percent of the class. The local mu omicron chapter first met on April 30, 1980.

ALPHA EPSILON ALPHA

An honor society founded April 30, 1980 at the University of Scranton to recognize scholarship in the general field of communications. For communication majors with a 3.3 GPA

ALPHA KAPPA DELTA*

International Honor Society for sociology students founded in 1920. Requirements include 18 credits in sociology with a GPA of 3.0 overall and in sociology. The Pennsylvania upsilon chapter was founded here on May 8, 1980.

SIGMA XI

International Honor Society in Scientific Research founded in 1886. The local club was chartered in 1968 and has been authorized since 1979 to induct as associate members undergraduate or graduate students showing outstanding promise in original research

PI SIGMA ALPHA*

National Honor Society in political science founded in 1920. The kappa iota chapter at the University of Scranton was installed on May 9, 1980. Membership limited to students with at least 10 credits in political science, a GPA of at least 3.0 in these courses, and overall rank in the upper third of the class.

ALPHA PHI SIGMA*

The National Criminal Justice Honor Society founded in 1942. Our local epsilon zeta chapter was installed in May, 1982.

PHI SIGMA TAU*

National Honor Society for students of philosophy. The Pennsylvania tau chapter was installed in May, 1982.

UPSILON PI EPSILON

National Computer Science Honor Society. The local gamma chapter was chartered in the spring of 1985.

SIGMA THETA TAU*

International Honor Society in Nursing founded in 1922. Requirements: completion of one half of the curriculum, demonstrated ability in nursing, and a GPA of 3.0. Our lota Omega Chapter was chartered in April, 1988.

BETA BETA BETA

National Honor Society for Biology founded in 1922. The Scranton Chapter established in 1994 is one of 372 chapters nationwide. The society encourages undergraduate biological research through presentations at conventions, publication in the journal BIOS, and research grants. Associate member: anyone interested in biology. Regular member: Junior or senior with 3.0

average in at least 3 biology courses (1 upper level) and in good academic standing at the university.

SPECIAL PROGRAMS

SPECIAL JESUIT LIBERAL ARTS PROGRAM

The University's SJLA Program, available by invitation to incoming freshmen, provides an *alternate* way of fulfilling a student's General Education requirements. Students not selected initially may apply for admission as second semester freshmen or as sophomores. Courses for SJLA program participants, who are drawn from all different majors, attempt to foster the following skills which our graduates have found particularly useful in law, medicine, business, and graduate school:

- 1. An understanding of key achievements in the literature, history, philosophy, theology and science of our Western classical and Christian heritage
- 2. An ability to apply logical, systematic, and critical reflection on any given intellectual problem.
- 3. An understanding of and sensitivity toward the contemporary problems of our day
- 4. An outstanding ability to communicate clearly and persuasively one's ideas through both the spoken and written word (what Jesuits have historically referred to as "eloquentia perfecta").

Students are expected to become involved in the extracurricular and service activities on campus if they wish to remain in SJLA. Many participants also take advantage of the opportunities for foreign study, for earning a double major in philosophy, and for joining the Honors Program if invited during their sophomore year. Above all, participants are expected to seek out and interact with the professors and other students in this community of learning, which is under the direction of Rev. Ronald H. McKinney, S.J.

Dept. and No.	Fall Semester FRESHMAN	Spring Semester		Credits
MAJOR/COGNATE	Major/Cognate	Major/Cognate	6-9	6-9
Foreign Language	Modern or Classical	Modern or Classical	3	3
Phil 120J-210J	Intro to Philosophy	Ethics	3	3
T/RS 121J-Comm 100J	Theology I	Public Speaking	3	3
Phys. Educ.	Physical Education	Physical Education	1	1
•			16-19	16-19
		SOPHOMORE		
MAJOR/COGNATE	Major/Cognate	Major/Cognate	9-12	9-12
T/RS 122J-N. Sci. 110J	Theology II	Scientific Ideas *	3	3
Phil. 217J-311J	The Trivium	Metaphysics	3	3
Phys. Educ.	Physical Education	Physical Education	1	1
			16-19	16-19
		JUNIOR		
MAJOR/COGNATE	Major/Cognate	Major/Cognate	9	9
T/RS 231J-Elective	Social Ethics	Elective	3	3
Hum 311J-312J	Masterworks I	Masterworks II	3	3
SS 110J-Phil. 322J	Social Science*	Philosophy of Conscier	nce <u>3</u>	3
			<u>18</u>	18
		SENIOR		
MAJOR	Major	Major	6	6
Electives	Elective	Elective	3	3
Phil 412J-413J	Art and Metaphysics	The End of Philosophy		3
T/RS 319J-Elective	Theological Topics	Elective	3	3
			15	15

TOTAL: 130-145 credits

* Some majors are exempt

Depending on major

SPECIAL PROGRAMS COURSE DESCRIPTIONS PHIL120J

Introduction to Philosophy

Fr. McKinney 3 credits

The aim of this course is to awaken in the student an appreciation of the nature and method of philosophical inquiry through an examination of key texts which grapple with the central questions that have arisen in the history of philosophy.

PHIL210J Dr. Klonoski Stricks 3 credits

Through the presentation of a select history of moral philosophy, students are introduced to the philosophical discipline of ethics. Original texts of such thinkers as Plato, Aristotle, Epicurus, Epictetus, St. Augustine, Hobbes, Kant, Mill, and Nietzsche are enlisted to explore the most fundamental question in ethics, "What is the good life?"

PHIL311J Dr. Baillie
Metaphysics 3 credits

A textual inquiry into the adequacy of philosophical responses to the fundamental question, "What Is?" Special attention will be given to Aristotle, Hume, Kant, and Nietzsche

PHIL217J Dr. Whittaker
The Trivium 3 credits

Via numerous writing projects and the analysis of select philosophical texts, this practicum in grammar, logic, and rhetoric will encourage the student to connect the basic elements of reason, discourse, and persuasion.

PHIL322J Dr. Black

Philosophy of Conscience

3 credits

Studies the role of conscience in moral judgement and considers its metaphorical, narrative, and ironic elements. Explores the difference between clarity and community, truth and wisdom, mind and person, principle and prudence as we study possible links between conscience, reason, eros, imagination, and education in some of the works of Plato, Kant, Marx, Vico, and St. Augustine

PHIL412J Dr. Casey
Art and Metaphysics 3 credits

A rigorous exploration of 1) the end of metaphysics as it plays itself out in modern science and technology, and 2) the significance of art as a way of overcoming the nihilism inherent in this end. Contemporary works of imaginative literature as well as of philosophy will be read as means to reflect critically on the post-modern condition of nihilism. Special attention will be given to the thought of Martin Heidegger and Hannah Arendt

PHIL413J Dr. Rowe
The End of Philosophy 3 credits

The purpose of this course is to draw together into a meaningful whole the materials studied in SJLA philosophy courses thus far. The course concerns the end of philosophy in two senses: First, the course will seek to evoke a sense of the purpose of philosophy not only within the academy, but in public life, in personal development, and even in the evolution of Western and World culture. Second, the course will raise the question of philosophy's alleged "completion," "exhaustion," or "destruction" as discussed by certain twentieth century philosophers

T/RS 121J
Dr. Steele
Theology I
3 credits

This introduction focuses on Bible and Tradition, studying key books and themes of the Old and New Testaments, as well as major developments in early Christian thought

T/RS 122J Dr. Mathews
Theology II 3 credits

This course focuses on the Christian Creed and Way of Life. The foundations of Christian doctrine and fundamental moral principles will be studied through the examination of major theological texts. Emphasis will be placed on a critical understanding of Tradition

T/RS 231J Dr. Benestad Social Ethics 3 credits

This course will prepare students to recognize ethical dimensions of political, economic, and social issues through the study of classic works of political theory and contemporary writings on such issues as morality, foreign policy, and economic justice

T/RS 319J Staff

Theological Topics

3 credits

This SJLA senior capstone seminar will treat a number of theological issues of mutual interest to the students and designated professor.

HUM 311J-312J Masterworks I-II Prof. J. Benestad/Fr. McKinney

6

credits

In this team-taught, year-long seminar, students will read some of the great classics of world literature, learn how to facilitate their own discussions, write a comparative analytic paper, and be orally examined by a host of volunteer professors

NSCI110J Dr. Dickneider Scientific Ideas 3 credits

A multidisciplinary examination of several current topics in Science designed to demonstrate the role of models, inquiry, and experimentation in the development of scientific concepts. The topics selected demonstrate how Science works when it works correctly and when it goes astray.

SS 110J Dr. Champney
Social Science 3 credits

Introduction to the theories and methods of the social and behavioral sciences, contrasted with the humanities and the natural and life sciences. Special emphasis on the scientific method and its applicability to the study of human behavior, as well as an introduction to statistical analysis of such behavior. Consideration of current controversies such as sociobiology

COMM100J Dr. Germeroth
Public Speaking 3 credits

This is a performance class which emphasizes the theory, composition, delivery, and criticism of speeches.

Electives & Exemptions: The four electives (beyond the two-semester language requirement) are intended to be negotiated with the Director by students to ensure that deficiencies in their curriculum are addressed, e.g., humanities majors will be encouraged to take some math andor natural and social science courses. Most will probably take a philosophy elective and some history electives or place an A.P. course here that does not fit into their cognate. There are always exemptions made to ensure that everyone takes at least 130 credits but no more than a credit-heavy major requires. Special exemptions may also be possible for those participating in foreign study, in Honors, or in a difficult double major or minor

HONORS PROGRAM

The Honors Program provides selected students with greater depth and breadth in their education through seminars and directed independent work. Participants in the program take interdisciplinary courses and seminars as well as tutorials both in and out of their major field. They also complete and defend a project in their major.

Honors courses are designed to intensify the general education requirements. Offerings have included such courses as Victorian Studies, Social Science, and Elements of Natural Science. One course is required of each Honors student

An Honors Tutorial is an exploration of a topic on an individually directed basis. The student meets with a mentor weekly throughout the semester. Three tutorials are required of each Honors Student-- at least one in and one outside the major. A fourth and fifth tutorial may be taken if the student desires. These tutorials count toward major, minor, cognate, or general education requirements. In the Honors Seminars a small group of Honors Students meets weekly with the Director and Assistant Director. The Junior Seminar is based on an interdisciplinary reading list; the Senior Seminar is based on the Senior Honors Projects. Since these seminars are over and above ordinary graduation requirements, there is no tuition charge for them

The Senior Honors Project involves an intensive exploration of a specialized topic. It can be either academic or professional in nature. The student defends the finished project before a board of three faculty members who judge whether it is of Honors caliber

In their final semester, Honors students can receive a scholarship for up to two courses, provided they are over and above graduation requirements

ADMISSION TO HONORS PROGRAM

Applications are accepted every fall from those students who have at least eighteen hours of college credit and who expect to graduate after three more years of work at the University. Applicants must ordinarily have at least a 3.3 GPA; a minimum of a 3.5 GPA (cum laude) is required for graduation in the Program. The number of spaces in the program is limited, and admission is based on the applicant's high school and college records, SAT scores, recommendations, application, and interviews. For further information contact Dr. Ellen Casey, Director of the Honors Program

SCHEDULE

	Fall	Spring
Sophomore Year:	Application	Hum. 286H or NS 286H
Junior Year:	1 or 2 tutorials	1 or 2 tutorials
		Honr. 387H: Junior Honors
		Seminar
Senior Year:	Honors Project	Honors Project
	Honr. 489H: Senior Honors	Defense of Project
	Seminar	

HUM 286H Victorian Studies

This course uses literature to explore 19th century British social and intellectual history. Focusing on the period from 1832-1901, it examines Victorian attitudes toward industrialization, religion, art, and sexuality. (Area IV)

NSCI 286H Elements of Natural Science

This course presents an overview of the methods of the natural sciences. The applications of these methods in the solution of historical and modern problems will be discussed. Possible topics include: atmospheric and oceanic chemistry, relativity, quantum theory and chaos. (Area I)

Honr. 387H Junior Honors Seminar

Student-led discussions of contemporary non-fictional works chosen for their variety and their importance.

Honr. 489H Senior Honors Seminar

Student-led discussions of the content, rationale, and methodology of Senior Honors Projects

Dept. 385H-389H Honors Tutorial

An exploration of a topic on an individually directed basis

Dept. 487H-489H Honors Project

An independent project of academic or professional nature culminating in an oral defense before a board of three faculty members.

No Honors Program coursework may be taken on a Pass-Fail Basis

EASTERN CHRISTIAN STUDIES (ECS)

RUSSIAN AND EAST EUROPEAN STUDIES (REES)

SR. JOAN L. ROCCASALVO, C.S.J., Coordinator

The Center for Eastern Christian Studies offers two areas of study, Eastern Christian Studies and Russian/ East European Studies. As our century draws to a close, a deeper understanding of other cultures has become a necessity in order to strengthen Americas performance as a leader in global affairs. Ignorance of world cultures, especially of the Christian East, Russia and East Europe can weaken our ability to excel as a nation which must be immersed in international affairs. ECS and REES address this concern

- Eastern Christian Studies (ECS) links the legacy of the past to the present. ECS focuses on the traditions of the Byzantine, Slavic and Near East worlds and their contributions to contemporary society.
- 1. Russian and East European Studies (REES) focuses on the present and the future, i.e., historical, political and cultural issues in Russia, Ukraine, Poland, the Baltic countries, the Czech and Slovak Republics, and Hungary. Courses examine the interrelationship of contemporary issues as they affect these countries

In addition to their major, students electing **ECS** or **REES** enjoy the opportunity for studies which include cultural history, political science, language, literature, philosophy, theology, art and music

Students may choose either concentration but may not pursue both. **ECS** and **REES** are available to students: (a) with ethnic or national backgrounds included in**ECS** or **REES**. (b) with academic and professional interest in these cultures

ECS and **REES** blend the values of Ignatian humanism with professional and career goals. The Ignatian theme "Men and Women for Others" stands as the centerpiece of these programs

EASTERN CHRISTIAN STUDIES

(21 credits)

Required: 9 credits from Category I and 12 credits from Category II

Category I. Three courses (9 credits)

HIST 319 Byzantine Civilization I (IV) T/RS 225 Intro. to Theology of the Eastern Russian and East European Churches (V) Culture (IV)

Category II. Select four courses (12 credits) from the following groups with at least one course from each group:

CHURCH			
T/RS 226	Intro. to Eastern Liturgies (V)	T/RS 310	Liturgical Theology of the Byzantine Churches (V)
T/RS 325	Eastern Christian Spirituality (V)	T/RS 311	Introduction to Greek Fathers (V)
STATE			
HIST 225	Imperial Russia (IV)	HIST 227	Soviet Foreign Policy (IV)
HIST 226	Russian Revolution (IV)	HIST 320	Byzantine Civilization II (IV)

and Its Aftermath

CULTURE

RUSS 101/102 Elementary Russian (III) RUSS 211/212 Intermediate Russian (III) REES 225 Russian and East European

Literature (IV)

Russian and East European GREEK 113/114 New Testament Greek (III) MUS 123

Music (IV)

ARTH 203 Early Christian & Byzantine Art (IV)

RUSSIAN AND EAST EUROPEAN STUDIES

(21 credits)

Required: 6 credits from Category I and 15 credits from Category II

Category I. Two courses (6 credits)

REES 140 Russian and East European REES 325 Senior Seminar in REES (IV)

Culture (IV)

Category II: Select five courses (15 credits) from at least two of the following groups:

RELIGION AND PHILOSOPHY

T/RS 225 Intro. to Theology of the Eastern Churches (V)

T/RS 226 Intro to Eastern

T/RS 325 Eastern Christian Spirituality (V)

PHIL 217 Russian Philosophy

T/RS 226 Intro to Eastern PHIL 217 Russian Philosophy (V)
Liturgies (V)

Liturgies (v

STATE

GEOG 134 World Regional HIST 226 Russian Revolution and Geography (II) Its Aftermath (IV)

HIST 225 Imperial Russia (IV) H/PS 227 Soviet Foreign Policy (IV)

CULTURE

MUS 123 Russian and East European

Music (IV)

ARTH 205 The Icon in Russian and RUSS 101/102 Elementary Russian (III)

East European Art (IV) RUSS 211/212 Intermediate Russian (III)

REES 140 3 credits

Russian and East European Culture

(Required of all students in REES program) A topical study of Russia and East Europe. Included among the lectures are the following: cultural history, literature, art, religious thought, music, and the role of the Society of Jesus in Russia and East Europe

REES 225 Russian and East European Literature

3 credits

This course will examine 19th- and 20th-century East European literature with the goal of exploring how various authors have depicted urban and rural environments, and upper-, middle-, and peasant-class life. Among the authors to be read and discussed are: Tolstoy, Chekhov, Babel, Aleichem, Reymont, Bashevis Singer.

REES 335 Senior Seminar in REES

3 credits

(Required of all students in REES program) A summing up of the REES concentration in advanced level discussions on the part of the students. Students will engage in the following: (a) identify one problem related to Russia and East Europe, (b) choose a methodology suited to the problem, (c) after intense research, analyze and recommend a solution to the problem by means of a senior project or paper approved by the staff. Some projects or papers might lend themselves to publication. *Course available only to seniors in REES.*

PHIL 217 Russian Philosophy

3 credits

This course will trace the evolution of Russian philosophical thought. The offering will concentrate on select nineteenth and twentieth-century authors and will also highlight several grand themes dear to Russian philosophers, including integral knowledge, the philosophy of history, Godmanhood, and Sophia. Consideration will be afforded both religious and non-religious thinkers

ARTH 205 The Icon in Russian and East European Art

3 cradite

This course focuses on theology, image and artistic style in the making of the icon in Russia and East Europe. The icon will be studied in its historical and cultural context from medievalthrough modern times.

HUMAN DEVELOPMENT

DR. BUCHANAN, Director

This program offers all students, especially those majoring in the behavioral and social sciences, the opportunity to develop a multidisciplinary focus in human development. The academic aims of the concentration are to provide an understanding of: (1) both normal and exceptional development of humans as biological and psychological organisms; (2) the relationship between individuals and family/social environment; and (3) the means to enhance human development, including a field experience in a human development agency.

The 30-credit Human Development concentration is administered by an interdisciplinary board of full-time faculty from the Psychology, Sociology, and Human Resource departments. Students interested in careers and graduate programs in human development should contact the concentration director for more information on course choice and on integrating the concentration with various majors. Students who complete this concentration will have the achievement noted on their transcripts.

The Human Development concentration requires the following

- 1) Childhood & Adolescence (Psych. 221)
- 2) Adulthood & Aging (Psych. 222) or Introduction to Gerontology (Gero. 110)
- 3) Abnormal Psychology (Psych. 225)
- Case Management & Interviewing (HS 241)
- Clinical Psychology (Psych. 360) or Counseling Theories (HS 242) or Introduction to Social Work (Soc. 115)
- Anatomy & Physiology (Bio. 201) or ABC's of Genetics (Bio. 202) or Behavioral Neuroscience (Psych. 231) or General Biological Science (Bio. 101-102)
- 7) Three of the following courses with at least one course from the cultural diversity group of: Cultural Anthropology (Soc. 234), American Minority Groups (Soc. 224), Marriage and the Family (Soc. 210), Exceptional Child (HD 335), Family Development (HD 224), Multiculturalism in Human Services (HS333), Psychology of Women (Psych. 237), or Juvenile Delinquency (S/CJ 214), and at least one course from the applied skills group of: Educational Psychology Educ. 222), Early Childhood Education (Educ. 140), Child Welfare (Soc. 118), Group Dynamics (HS 341), Psychiatric Rehabilitation (HS323), Marital and Family Therapy (HD 234), Marital and Family Counseling (HS 334), or Behavior Modification (Psych. 284).
- Field Experience in Clinical Psychology (Psych. 480) or Internship in Human Services (HS 380) or Internship in Social Work (Soc. 480)

HUMAN DEVELOPMENT COURSES HD 224

Family Development

Dr. Buchanan

3 credits

(Prerequisite: PSYCH 110) This course will explore the reciprocal interactions among children and parents as related to the development of all individuals in the family. Topics to be covered include the roles of family members, parenthood and marriage, parenting at specific developmental stages, families with single parents, families with exceptional children, and child abuse

HD 234
Marital and Family Thorany

Dr. Norcross

3 credits

Marital and Family Therapy

(Prerequisite: Psych 110; recommended: Psych 225) An introduction to the theory, research, and practice of couples counseling and cojoint family therapy. Topics include family dysfunctions, assessment methods, treatment approaches, innovative techniques, and research findings. (Also listed as HS 234.)

HD 335 Staff Exceptional Child 3 credits

(Prerequisites: Psych 110 and Psych 225) This course will consider atypical social, emotional, and mental development during childhood and adolescence. Topics include mental retardation, intellectual giftedness, learning disabilities, psychopathology of childhood and adolescence, and conduct disorders.

PEACE AND JUSTICE STUDIES PROGRAM

DR. FREIN, Coordinator

The Peace and Justice Studies program seeks to contribute to the students understanding of current social and economic issues and the psychological and political barriers to peace. The program"s class activities, conferences and interdisciplinary research will strive to stimulate reflection on global and national peace and justice issues, and thereby, suggest solutions to some of the problems which hinder the establishment of peaceful and just societies

A Peace and Justice concentration will be an attractive complement to the academic programs of students who are planning careers in law, international relations, human services, ministry and teaching -- to name only a few. It will also be attractive to all students who have a personal interest in the problems of peace and justice, regardless of their individual career goals

The program offers a multi-disciplinary concentration of courses, eight (24 credits) of which are to be taken by the student in order to have "Peace and Justice Concentration" added to the transcript. It is open to majors from the four undergraduate schools of the University, and courses may be taken as part of the Cognate requirement (with permission of the Chairperson of the major) or as part of the General Education requirements

Courses currently offered which would fit into this concentration are listed below:

A. Theology requirements: (any two of the following:)

Church and Contemporary Social Issues (T/RS 326)

Social Ethics (T/RS 231)

John Paul II and Catholic Social Thought (T/RS 232)

Politics: A Christian Perspective (T/RS 237)

Faith and Justice (T/RS 236)

Twentieth Century Peacemakers (T/RS 234)

God and the Earth (T/RS 316)

Jesus and the Moral Life (T/RS 338)

Wealth and Poverty in the Biblical Tradition (T/RS 328)

3. Electives: (any five courses listed below can be counted; others may be included with approval from the program coordinator)

Science and Society (Chem 104)

The Ascent of Man (NSCI 103)

Communication and Socialization (Comm 231) Cultural Anthropology (Soc 234)

Political Communication (Comm 311)

Law and Society (S/CJ 210)

The Bill of Rights and Criminal Justice

(S/CJ 314)

Literature of Social Protest (Span 435)

Geopolitics (Pol Sci 213)

Global Peace and War (PS 215)

World Politics (H/PS 214)

Gender and the Workforce (H/PS 216)

473)

Ethnic and Racial Minorities in Northeastern

Pennsylvania (H/PS 224)

The Third World (H/PS 238)

Cultural Geography (H/Geog 217)

220)

Multiculturalism in Human Services (HS333)

Philosophy of Culture (Phil 410)

Political Philosophy (Phil 227)

Social Justice (Phil 318)

Energy and the Environment (Phys 106)

Social Psychology (Psych 220)

Cultural Affiliopology (300 234)

Community Organization (Soc 116) American Minority Groups (Soc 224)

Is Capitalism Christian? (Intd 101)

Politics and Literature (Intd 102)

Literature of American Minorities (Lit 207)

Science and the Human Environment

(NSCI 201)

Feminism: Theory & Practice (Phil 218)

Organizational Social Responsibility (Mgt

The Holocaust (INTD209)

Urban and Regional Economics (ECO

462)

Development Economics (ECO465)

Responsibility in Communication (COMM

Environmental Ethics (PHIL 213)

Women, Politics, and Policy (PS227)

C. Integrative Capstone Course: (required in Jr/Sr. year) Toward a Just and Peaceful World (T/JP 310)

3 credits

This course will reflect on the various issues and problems raised by peace and justice study. It will consider the relationship of religion, moral philosophy and the socia/political concerns embraced in the quest for a human world order. Faculty from several disciplines will make presentations. Each student will write a paper from the perspective of hisher major area of concentration.

WOMEN'S STUDIES CONCENTRATION

DR. JEAN WAHL HARRIS, Director

The Women's Studies concentration consists of both interdisciplinary and single-discipline courses which examine women's experience and the ways gender-related issues affect human lives and cultures. Faculty and students analyze the ways gender roles and images, and assumptions about gender are reflected in art, business, literature, law, philosophy, public policy, religion, language, history, the sciences, and their own lives. At the same time many courses in the concentration will address issues of race, class, ethnicity, and age which intersect with gender-related issues

The concentration seeks to promote critical thinking, intellectual growth, and a self-awareness useful to all students. It is an attractive academic supplement to the programs of students planning careers in government, law, business, human service, ministry, and teaching-to name but a few.

Courses for the Women's Studies Concentration are drawn from all the colleges at the University, and the concentration is open to students in all majors. The concentration consists of seven courses including an interdisciplinary integrated seminar normally taken during the junior or senior year. The remaining six courses are chosen across several departments by the student from cross-listed courses approved by the Women's Studies Committee. Many of the cross-listed women's studies courses also fulfill major, minor, cognate andor general education requirements

Students may seek permission from the Womer's Studies Committee to take no more than one reader for women's studies credit, subject to the usual rules governing readers. Students may also petition to substitute no more than one course not cross-listed with womer's studies, if the course has sufficient women's studies content and the student is able to do a significant project/assignment on a women's studies topic.

Women's Studies courses (a) focus on women's experiences in history, society, and culture, and examine their reactions to such experiences, (b) examine institutional structures modes of authority/analyses of power, especially considering their implications for women, and (c) incorporate one or more feminist analyses/scholarly works (recognizing that there are multiple, and even conflicting, feminist perspectives).

WOMEN'S STUDIES COURSES

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WOMN490 Staff Women"s Studies Seminar 3 credits

The required Women's Studies Seminar is an interdisciplinary examination of a selected topic in women's studies. The topic will be selected on the basis of student and faculty interest. Examples of possible topics include: women and education, women and family, women and labor, women and the law. Students' individual research projects will culminate in both a research paper and an oral presentation to an appropriate group of faculty and students. Prerequisites: at least two completed women's studies courses or special permission from the instructor

OTHER SPECIAL PROGRAMSTHREE-YEAR BACHELOR "S DEGREE PROGRAM

The University of Scranton's Curriculum and 4-1-4 calendar allow qualified students to attain their bachelor's degree within three years -- thus considerably reducing the overall cost of their

^{*}taught in the original language: see departmental descriptions for prerequisites

undergraduate education and allowing the student to enter the marketplace or begin graduate and professional studies a year earlier. While Advanced Placement or College Level Examination Programs credits (see Index) are very useful for this, a student who does not bring these from high school may still complete the degree program in most majors within three years through the use of January Intersession courses and/or Summer School sessions. This presumes that minimum, normal academic progress is being made. Typically two Summer Schools (12 credits each) and two or three January Intersessions will suffice. Especially qualified students may be allowed overloads from the appropriate Dean to further reduce this-- as will Advanced Placement credits. The Dean should be contacted as early as possible in a student's career in order to facilitate the needed scheduling. Entering freshman students may want to use the Summer School immediately following their high school graduation to further this three-year program; the Dean of Admissions should be consulted with respect to this. Details on the special Scranton PrepUniversity Seven year (4-3) high school-college degree program are available from the Dean of Studies at Scranton Prep.

FIVE-YEAR BACHELOR-MASTER "S DEGREE PROGRAM

Developed in cooperation with the University's Graduate School, this program enables undergraduates to complete both the bachelor's and master's degree program within five years in the fields of English, Business, Chemistry, and Biochemistry. Students elect to enter the program after sophomore year. Ordinarily two summers of study or equivalent January intersessions are needed.

FOUR-YEAR BACHELOR-MASTER "S DEGREE PROGRAM

Qualified undergraduates in the department of history and chemistry have the option of pursuing a four-year program leading to simultaneous conferral of bachelor and master's degrees in history, chemistry or biochemistry. Summer work and the use of 12-13 graduate credits in place of undergraduate courses are involved. The department chairperson should be consulted for details

FOREIGN STUDY PROGRAM

Students with above average (3.00 GPA) academic records are encouraged to participate in the University"s Foreign Study Program. This ordinarily takes place in junior year. The University of Scranton is affiliated with the Loyola-Rome Center and other Jesuit-sponsored programs abroad. It also participates in the International Student Exchange (ISEP). During the past and present years University students have enrolled in the University of Seville, the University of Valencia, University College in Galway and Trinity College in Dublin, Beaver College programs in London, the University of Heidelberg, Marburg University, the University of Bonn, the University of Munich, the University of Salzburg, the Chinese University of Hong Kong, the University of Grenoble, Deakin University, Monash University, Curtin University and the University of New South Wales in Australia, and Kansai University in Japan. Interested students should contact Dr. Mary Engel, the Associate Dean of the College of Arts and Sciences, for more information

JESUIT EXCHANGE PROGRAM

A variant of Foreign Study is the University's program in conjunction with the 28 Jesuit universities in America by which above-average (3.00 GPA) students may spend one or two semesters of their junior year at another Jesuit institution. These institutions are listed on page 277. In recent years the University of Scranton students have attended Boston College, Loyola University in New Orleans, Santa Clara University, and the University of San Francisco. Consult Dr. Mary Engel, the Associate Dean of the College of Arts and Sciences, for details on this program

INTERNSHIP PROGRAMS

The University's commitment to internships as an integral part of the educational process is strong and growing. In 1987-88, almost 250 students in the College of Arts and Sciences were engaged in internships carrying academic credit related to their major or vocational goals. 165 of these were seniors -- one third of the class -- in twelve different majors.

Medical Technology majors spend their senior year in eleven different hospitals in New Jersey and Pennsylvania.

Students majoring in Physical Therapy select internships from some 245 regional and national health care facilities and agencies formally affiliated with the University of Scranton program

Human Service majors select educational, health, welfare, correctional, rehabilitation, day care, and recreational agencies for their internship settings

Health Administration majors serve internships in a variety of settings including hospitals, nursing homes, rehabilitation centers, and related health agencies

Seniors majoring in accounting are eligible to participate in a 13-week on-the-job internship with both national and regional public accounting firms. This internship usually takes place in December-March of senior year. Selection is made on the basis of GPA rating (minimum 2.67) and on interviews by company representatives. In the most recent year, students worked for such firms as Coopers & Lybrand; Ernst &Young; KPMGPeat Marwick, Parente, Randolph, Orlando, Carey & Associates; and Prudential Asset Management Co., in New York, Philadelphia, and other cities. Students majoring in Finance, Management or Marketing are also eligible for internships, both in the Scranton region and in their home localities over the summer months

Communication and English majors serve internships with academic credit in a number of newspaper and television situations as well as in public relations, campus journalism, theatre directing and related positions.

Political Science and History majors serve pre-law internships in private law firms as well as in the Public Defender's Office, District Magistrate offices, District Attorney's office in Scranton, Philadelphia, and a number of other cities

Public Administration majors serve internships in their senior year in a public agency at the local, state, or federal level. Placements include the United States Social Security Administration, the Pennsylvania Bureau of Consumer Protection (State Attorney Generals Office), and the Pennsylvania Department of Community Affairs

Computing Sciences majors participate in the Commonwealth of Pennsylvanias Computer Systems Intern Program, serving 6-month internships (contiguously, or over two summers) in various state agencies in Harrisburg or Scranton. Students in this department also hold internships in a number of private companies in the Scranton area, in Binghamton, and in New York City

Psychology majors in the clinical track complete a practicum during their junior or senior year at a variety of mental health, substance abuse, and social service agencies under individual supervision. Other Psychology majors opting for the business minor may elect to complete an internship in personnel psychology and receive direct supervision in a variety of personnel offices in the area.

Sociology, Criminal Justice, and Gerontology majors spend part of the junior or senior year serving internships in criminal justice agencies (corrections, probation & parole services, the District Attorney's Office, Sheriff's and U.S. Marshal's services, private security and legal work) and social work/human service settings (child-care and juvenile programs, Cancer Society, and agencies serving older adults, etc.)

FACULTY/STUDENT RESEARCH PROGRAM

The Faculty/ Student Research Program (FSRP) gives students an opportunity to be involved in faculty research. Students in all fields (e.g. natural sciences, humanities, social sciences, business) can participate. They engage in a variety of activities ranging from relatively routine tasks to more sophisticated research

There is no cost for the FSRP and the program is open to all students in good academic standing including incoming freshmen. While students do not receive academic credit, they do receive transcript recognition for their participation

To participate in the program, students must identify a faculty sponsor with whom they want to work. This can be done by either talking to individual faculty members directly about their research interests or consulting the FSRP Directory. The Directory includes information on research projects and any student prerequisites. When a student and faculty member agree to work together, they complete a learning contract that outlines the nature of the research, the tasks involved and the hours to be worked

For further information about this program, contact the Office of Research Services, Room 221, The Estate, (717) 941-6190.

PRE-LAW PROGRAM

The University is justly proud of its tradition in providing students seeking careers in the law with a solid preparation for the demands of legal study and practice, based on an undergraduate curriculum rooted in liberal education. Graduates of the University in all regions of the nation have achieved distinction in virtually every area of the law, including as local, state and federal judges. In Northeastern Pennsylvania, nearly half of the legal community hold undergraduate degrees from the University of Scranton.

The clearest measure of the strength of the University's Pre-Law Program is the remarkable success its graduates have had in winning admittance to law school throughout the country. Since 1987 no less than 500 University graduates have received acceptances, well over half of these going directly into law school after graduation. The percentage of applicants accepted among members of the graduating classes has remained significantly higher than the rate of acceptance for all applicants nationwide. Recent graduates have been admitted into some of the most prestigious law schools in the country, such as Columbia, Cornell, Georgetown, Harvard, and the University of Pennsylvania, as well as more than thirty other public and private law schools across the nation, including American University, Boston College, Catholic University, Dickinson, Fordham, Notre Dame, Pittsburgh, Rutgers, Seton Hall, Temple, Villanova, Widener, and William & Mary.

Pre-Law Curriculum --For admission to law school, no specific undergraduate major is required. In our last senior class, the department of history and political science produced the majority of the Scranton graduates admitted to law school. However, students in languages, business, English, education, sociology, communication, law enforcement and psychology also won admittance to law school. The single most important factor in admission is not, therefore, a specific major, but rather the degree of academic excellence manifested by the student in pursuing whatever major has been chosen as the particular field of competence

Skills and Courses --While pre-law students are free to choose their majors, they should give particular attention to the development of those skills which are important for success in the study and practice of law. The General Education program of the University is designed to enable pre-law students to acquire these skills

I. Comprehension and Proficiency in Oral and Written Communication:

The University's freshman courses in Oral Communication (Comm. 100) and Composition (Engl. 107) provide a foundation upon which pre-law students can build by taking electives such as:

Comm. 211 -- Debate and Argument

Wrtg. 210 -- Advanced Composition

Wrtg. 212 -- Writing for the Law

The student should also consider participating in the Noel Chabanel Debate Society; the Aquinas, the college newspaper; the yearbook; and Esprit, the student literary journal.

II. A Critical Understanding of Human Institutions and Values:

Here the University's courses in the field of history and literature, philosophy and theology are most helpful. The curriculum allows students to use courses of interest as cognates to their major program and as part of the humanities area in the General Education program. British and American Constitutional History (H/PS 317-318, 331, 332) are especially recommended

III. Creative Power in Thinking:

Legal studies and legal work demand the ability to think clearly, carefully and independently. It is important therefore that pre-law students cultivate skills in research, logic and critical analysis. Especially recommended are:

Phil. 215 -- Logic: The Art of Communication

Phil. 319 -- Philosophy of Law

Comm. 210 -- Logical and Rhetorical Analysis

Phil. 217J -- The Trivium
Phil. 227 -- Political Philosophy

Similarly, quantitative skills are needed. The General Education program allows each student the opportunity for some background in the natural and quantitative or social sciences. Especially recommended as electives or as cognates to the major program are:

Acc. 253-254 -- Accounting Pol.Sci. 240-241 -- Social Science Statistics I-II

C/CJ 200 -- Forensic Chemistry Math 101-102 -- Math Discovery

Pre-Law Internships --Interested students with a Grade Point Average above 3.00 at the time of application may, with the approval of the Dean, receive academic credit for internships served in the offices of either private law firms or various legal agencies such as the District Attorney, Public Defender, or District Magistrate. Prior approval of the planned internship is necessary. A minimum of 150 hours work is required for internship credit in Pol. Sci. 280. Application forms for these internships are available from the Registrar's Office.

Pre-Law Advisory Team --Continuing advice on course selection, career planning, and the procedures for law school application is provided by a Pre-Law Advisory Team, composed of Dr. Frank X. J. Homer and Dr. Robert Hueston of the History Department, along with the University's Office of Career Services. The Team is assisted by both the:

Pre-Law Advisory Board, a group of regional lawyers which provides for close contact between the local legal community, a range of national law schools, and the University's pre-law program; and the *Pre-Law Society*, a student organization which provides a forum for speakers from the legal profession and sponsors trips to visit law schools

Law School Admission Test --Along with a student's undergraduate academic record, the LSAT score is a critical factor in the law school admission process. Ordinarily, pre-law students take the LSAT at the end of their junior year or early in their senior year. As a means of assisting University students to score up to their fullest potential on the LSAT, on-campus LSAT workshops are offered at least twice each year. These provide University students with an alternative to costly commercial test preparation services

PRE-MEDICAL PROGRAM

The success of the University's pre-medical program has been outstanding. Notwithstanding the fact that the period 1983-84 through 1987-88 has been the most competitive in the history of American medical school admissions, the University of Scranton placed an average of over 50 students per year into American medical schools. For Fall 1991 the number admitted is 52

The University offers pre-medical students the opportunity to participate in an undergraduate clinical medicine experience through its affiliation with the Scranton-Temple Residency Program. Students have the opportunity to accompany physicians at Scranton Mercy Hospital and Moses Taylor Hospital and to gain exposure to different clinical settings

Further, graduates from the pre-professional program have been accepted into dental schools at a rate of 12 per year, and to schools of podiatry, optometry, and other health professions at a rate of 12 per year.

In the past five years, University of Scranton students received approximately 500 acceptances to medical or dental schools including many of the most prestigious in the country. Harvard, Georgetown, Cornell, Columbia, Johns Hopkins, Rutgers, University of Pennsylvania, Hershey, Thomas Jefferson, George Washington, Hahnemann, University of Pittsburgh, Temple, St. Louis University, Medical College of Pennsylvania, Case-Western Reserve, SUNY-Buffalo, Fairleigh Dickenson, the University of Washington at Seattle, the University of Chicago, the University of Oklahoma, and New York Medical College

In addition, other students were admitted to schools of Osteopathic Medicine and Surgery, Podiatry, Pharmacy, Veterinary Medicine, and Graduate School programs in biology, chemistry, biochemistry, psychology, pharmacology and other health-related fields

Pre-Medical Curricula -- Most pre-medical students major in biology. The pre-medical advisor's specific course recommendations for biology majors are listed on the next page. Students majoring in chemistry, biophysics, or biochemistry at the University are also regularly admitted to medical or dental schools. Entering pre-medical students may also select General Area Studies in

Natural Sciences described earlier in this catalog; they should enroll in the Biology and Chemistry sequences.

Biochemistry, biophysics and medical technology provide alternative majors in second, third, or fourth year for those pre-medical biology students who subsequently choose not to apply to medical school.

Recommended Curriculum for Biology Majors --Completion of this sequence of courses will satisfy all requirements for the biology major as indicated on page 50

RECOMMENDED CURRICULUM FOR PRE-MEDICAL/PRE-PROFESSIONAL STUDENTS Dept. and No. Descriptive Title of Course

). Cradits	Descriptive Title of Cours	se
Orcuits	FRESHMAN FALL	SPRING
Biol 141-142		41/2
Chem. 112-113		-
	Chemistry 41/2	41/2
Communications	Electives 3	3
Humanities	Elective	3
Phil. 120	Introduction to	
	Philosophy 3	
		3
Ph. Ed.	Physical Education 1	1
	16	19
	SOPHOMORE	
Biol. 241-242 or		/
260	or Genetics 4	4
Chem. 232-233	Organic Chemistryl-II 41/2	41/2
Math. 103-114 or	Pre-Calculus-Analysis I	
Math. 114-221	Analysis I-II 4	4
Communications	Elective 3	
	Electives 3	6
Ph. Ed.	Physical Education 1	1
	191/2	191/2
	JUNIOR	
Biol. 245, 250, 341, 350	Biology Electives 41/2	4
Biol.**	Population Course* 4	
Physics 120-121	General Physics 4	4
		3
Phil. 210-212	Ethics-Medical Ethics 3	3
		3
Electives		3
	<u>18</u> 1/2	20
	SENIOR	
Biol. 343, 344,		
352,361,362	Biology Electives 6	7
Social/Behavior	Electives 6	3
Humanities	Electives 3	3
T/RS 330*	Biomedical Ethics	3
	15	16
	Credits Biol 141-142 Chem. 112-113 Communications Humanities Phil. 120 T/RS 121 Ph. Ed. Biol. 241-242 or 260 Chem. 232-233 Math. 103-114 or Math. 114-221 Communications Humanities Ph. Ed. Biol. 245, 250, 341, 350 Biol.** Physics 120-121 Social/Behavior Phil. 210-212 T/RS 122 Electives Biol. 343, 344, 352,361,362 Social/Behavior Humanities	Credits Biol 141-142 FRESHMAN General Biology I-II 41/2 General Biology I-II 41/2 General & Analytical Chemistry 41/2 Electives 3 Electives 3 Electives 3 Elective Introduction to Philosophy 3 Theology I Physical Education 1 Elective Introduction to Philosophy 3 Theology I Physical Education 1 Elective Introduction to Philosophy 3 Theology I Physical Education 1 Elective Introduction to Philosophy 3 Theology I Physical Education 1 Elective Introduction Introduction to Philosophy 3 Theology I Physical Education 1 Elective Introduction Introduction Introduction to Philosophy 3 Theology I Physical Education Introduction Introduc

TOTAL: 1431/2 credits

It is also recommended that pre-professional students take 6 credits of English literature in Area IV, and both Communication 100 and English 107 in Area III. Medical school candidates are urged to add Chem. 450, Biochemistry, in senior year

- * Phil. 212 and/or T/RS 330 are recommended as Area V electives
- ** See p. 50 for list of courses in the Population group

THE COLLEGE OF ARTS AND SCIENCES

Paul F. Fahey, Ph.D., Dean

The College of Arts and Sciences is the largest academic division of the University with more than 30 areas of studies. Its liberal arts programs serve students well in many different careers. CAS programs also lay the foundation for professional study in law, medicine, and dentistry, as well as for graduate study in various fields.

ART AND MUSIC

DR. DUNN, Chairperson

The Department of Art and Music offers three minors: Studio Art, Art History, and Music Literature. Each discipline aims to develop a student's creative expression, to prompt aesthetic appreciation and judgment, to develop critical thinking, and to deepen understanding of the impulse to create with sound and with image.

Courses in Art and Music satisfy General Education requirements in FOUR ways:

- a) studio art courses (all courses designated ART) satisfy requirements in GE AREA III -Communications, and/or in GE AREA IV - Humanities.
- art history courses (all courses designated ARTH) satisfy requirements in GE AREA IV -Humanities.
- music courses (all courses designated MUS) satisfy requirements in GE AREA IV -Humanities.
- d) any course in Art and Music may be used as a free elective

MINORS IN ART AND MUSIC

A minor in studio art requires 18 credits, including ARTH 111, 112, ART 114, a choice of either ART 112 or 116, and two additional studio courses

A minor in art history requires 18 credits, including ARTH 110, 111, 112. Three additional courses in art history are required.

Students who pursue a double minor in Studio Art and Art History are required to apply to the chairperson for additional requirements

A minor in music literature requires 18 credits, including MUS. 111, 112, 235, 236, and two additional music courses numbered 110 or above

ART

ART 112 Staff

Color and Design

3 credits

A foundation course introducing the elements and principles of two-dimensional design. Various materials are used to explore the organization of space and basic color theory

ART 114 Prof. Colley

Three-Dimensional Design

3 credits

A foundation course investigating basic materials and approaches in the creation of threedimensional form. Hands-on involvement with diverse media, techniques, and tools of the sculptor's craft is emphasized.

ART 116 Staff

Basic Drawing

3 credits

A foundation course designed to develop skills in basic drawing and perception. Various media are employed in exercises involving the use of line and shading, shape and space and design and composition.

ART 120 Prof. Alexander

Painting I 3 credits

A first-level painting course concerned with fundamentals such as composition, observation, basic color theory, and basic techniques. The class includes one museum trip and regular group critiques.

ART 122 Prof. Sampson

Watercolor I

3 credits

An introduction to the materials and techniques of painting with watercolor. Emphasis will be placed on developing the skills required to create unique visual expressions

ART 130 Prof. Sampson

Pastel I

3 credits

This course introduces techniques of painting with the ancient medium of pastel. It also includes study of color and the history of pastel painting

ART 214 Prof. Colley

Sculpture I

3 credits

In-depth exploration of form, space, rhythm and color to develop technical and creative skills for production of relief sculpture and sculpture in the round. Materials include wood, plaster, metals, stone and clay. Prerequisite: Art 114, or equivalent

ART 216 Staff

Drawing II

3 credits

A continuation of Art 116, with experimental use of varied media. Individual directions and experimentation are encouraged and developed. Prerequisite: Art 116, or equivalent

ART 220 Prof. Alexander

Painting II

3 credits

A second-level painting course concerned with a more extensive look at composition, pictorial space and more advanced color theory. The class includes one museum trip and frequent group critiques. Prerequisite:ART 120, or equivalent

ART 222 Prof. Sampson

Intermediate Watercolor

3 credits

This course builds upon Art 122. Experimental use of the medium, and of other water-based media (casein, gouache) will be encouraged Prerequisite: Art 122, or equivalent

ART 320 Prof. Alexander

Painting III

3 credits

The course focuses on individual approaches to painting. Content, style, and technique will be determined by each student

ART 382-383 Staff

Guided Independent Study in Studio Art

3 credits each

Courses meet specific needs and interests of the student. Content and methodology vary

ART 384 Staff

Special Topics3 credits
Selected topics in studio art will vary from year to year based on student faculty interest. Topics

may include Printmaking, Portraiture, Figure Drawing

ART HISTORY

ARTH. 110 Dr. Dunn Art and Ideas 3 credits

An introduction to the language, forms, and materials of art. The 3-credit course comprises one hour of slide lecture and two hours of demonstration

lecture. Topics to be explored include:Line, Color, Composition, Space, Light, etc.

ARTH. 111 Dr. Dunn History of World Art 1 3 credits

A survey of the history of painting, sculpture, and architecture, from prehistoric times through the dawn of the Renaissance in 1400. The art of ancient eastern and western civilizations is studied in historical contexts of idea, style, and technique

ARTH. 112 Dr. Farr
History of World Art II 3 credits

The course opens with the history of painting, sculpture, and architecture in Renaissance, Baroque, and eighteenth-century Europe. Introduced by Impressionism, Expressionism, and Cubism, the art of the modern world concludes with a survey of idea, style, and technique in twentieth-century art. Arth 111 not a prerequisite

ARTH. 201 Dr. Dunn
Art of the Ancient World 3 credits

A survey of the art and architecture produced between 30,000 - 1250 B.C. The course opens in the painted caves of Prehistoric Europe, and continues through the contemporaneous civilizations of the Ancient Near East (Sumer, Babylon, Assyria, Persia) and Egypt

ARTH. 202 Dr. Dunn Art of Greece and Rome 3 credits

The course begins in the Aegean with the Minoan and Mycenaean cultures celebrated by Homer; surveys the art of classical Greece; and continues with the art of the Etruscans in ancient Italy. The course concludes with Roman art and architecture (3rd c. B.C. - 5th c. A.D.)

ARTH. 203 Dr. Dunn Early Christian and Byzantine Art 3 credits

The art and architecture produced by the first Christians borrowed much from the forms and ideas of Roman art. The course surveys art produced in Rome, Ravenna, Milan, Greece, and Constantinople, 200-1400 A.D. Emphasis will be placed on the origin and symbolism of Christian imagery and architecture.

ARTH. 204 Dr. Dunn
Medieval Art: Romanesque 3 credits
and Gothic

A survey of art and architecture in western Europe, 1100-1400. Medieval architecture, manuscripts, paintings, and decorative arts will be presented as mirrors of medieval thought and spirituality.

ARTH. 210 Dr. Farr Women in the Visual Arts 3 credits

This course examines the history of women's achievements and struggles in the visual arts, and considers some of the varied ways of thinking and writing about women, art, and culture

ARTH. 213 Dr. Farr
American Art 3 credits

A survey of American architecture, painting and sculpture from the earliest exploration days. The course will cover art of Native America, the colonial period, the Civil War era, and the twentieth-century.

ARTH. 220 Dr. Farr

History of Photography

3 credits

The course explores the historical development of photography and considers the medium's aesthetic components as well as the theoretical and representational issues it raises.

ARTH. 295-296 (Travel Seminar) Dr. Dunn, Dr. Farr

Short study trips to provide students with the opportunity to study works of painting, architecture, and sculpture on site. Trips will be designed as themes: i.e., the Art Museums of London and Paris, The Bible in Text and Image (Italy), Renaissance villas and palaces, Michelangelo, etc

ARTH. 303 Art of Baroque and Rococo Europe Dr. Dunn 3 credits

A survey of the painting, sculpture, and architecture produced in Europe between 1600 and 1750. The course opens in Bernini's Rome of the Counter-Reformation and concludes in France at the royal courts of Louis XIV and XV.

In addition to developing skills of visual analysis, the course will focus on the interaction between

ARTH. 304 Nineteenth-Century Art

artist and society.

Dr. Farr

3 credits An exploration of painting and sculpture from Neoclassicism to Symbolism. Special emphasis will be given to works by J.L. David, Goya, Delacroix, Courbet, Manet, Morisot, Rodin, and Van Gogh.

ARTH. 305 Art of the Twentieth Century

Dr. Farr

Beginning with pre-World War I works by Matisse and Picasso, this course surveys the painting, sculpture, architecture and photography of the period known as modernism, ending with an exploration of the contemporary phenomenon of postmodernism. Through examination of both artworks and texts by artists and critics, considerations of style and technique will be integrated with an analysis of historical context

ARTH. 310 Renaissance Art and Architecture: 1250-1500 Dr. Dunn 3 credits

A survey of the art produced in Italy, 1250-1500, the course opens with Cimabue in Assisi of St.

Francis; continues into the fourteenth century with the frescoes of Giotto and Duccio; and concludes with such fifteenth-century artists as Brunelleschi, Donatello, Botticelli, Leonardo da Vinci, and the young Michelangelo

ARTH. 311 The Renaissance in Northern Europe Dr. Dunn 3 credits

Art produced in northern Europe (France, Germany, Belgium, and the Netherlands) differs remarkably from the art produced in Italy by Botticelli and Michelangelo. This course surveys painting north of the Alps by such artists as Jan van Eyck, Rogier van der Weyden, Hieronymus Bosch, and Albrecht D-rer.

ARTH. 312

Dr. Farr

Impressionism and Post-Impressionism

3 credits

Impressionism, an artistic movement linked today with leisure and pleasure, developed out of conflict and challenged many standard European art practices. The course investigates the artistic goals and strategies of Manet, Monet, Degas, Renoir, Morisot, Cassatt and Pissarro, and considers how their works respond to important social issues of the day. Paintings by the Postimpressionists Cezanne, Seurat, Van Gogh and Gauguin will be examined as reactions to the aims of Impressionism.

ARTH. 315 Matisse and Picasso Dr. Farr

3 credits

This course examines the works of these two influential modern artists by considering the aesthetic and historical context for their paintings, sculptures, prints, and writings on art.

ARTH. 380 Prof. Miller-Lanning

Museum Methods 3 credits

Museum Methods 3 credits

Offered in cooperation with the Everhart Museum, this course introduces students to ideologies of arts administration and methods of curatorial research and procedure. On-site study at the Everhart Museum is supervised by the Curator of Art and by art history faculty

ARTH. 382-383 Dr. Dunn, Dr. Farr Guided Independent Study 3 credits

Courses meet specific needs, and content and methodology vary

ARTH. 384, 484 Dr. Dunn, Dr. Farr Special Topics 3 credits

Selected topics will vary from year to year based on student faculty interest and available media resources. Topics may include Art of the Far East, History of Printmaking, etc. Discrete styles and individual artists may also be the focus of a selected topics course

ARTH. 410 Dr. Dunn Michelangelo and His World 3 credits

This course investigates the painting, sculpture, and architecture of Michelangelo. By considering the artistic traditions to which he fell heir as a Florentine artist, the traditional and the innovative aspects of Michelangelo's work will be assessed. Readings from his letters and poetry, and from sixteenth-century biographies will furnish a rich context for the appreciation of his work and for understanding the society to which he belonged

ARTH. 411 Dr. Dunn Leonardo (Da Vinci) 3 credits

Artist, scientist, author and free-thinker, Leonardo left few paintings, many drawings, and copious notes attesting the wide range of his intellectual curiosity. This course focuses both on the fifteenth-century world to which the artist belonged and on his many writings in order to measure Leonardo"s greatness as prodigy and visionary.

MUSIC

MUS. 100 Staff

Understanding Music

3 credits

An examination of music representing a wide variety of styles, genres, historical periods, and geographical areas, with an emphasis on the development of perceptive listening skills. Folk, popular, rock, jazz, and classical music will be studied

MUS. 111 Staff
Music History I 3 credits

The history and literature of Western classical music from the medieval period to the eighteenth century, including Gregorian chant, the growth of polyphony, the rise of instrumental music and the birth and growth of opera.

MUS. 112 Staff

Music History II

3 credits

The history and literature of Western classical music from the eighteenth century to the present, including the increasing importance of instrumental music and opera, the development of atonality and serial music and the recent avant-garde. Mus 111 is not a prerequisite

MUS. 211 Prof. Garofalo

Keyboard Music

3 credits

Music written for the piano, organ, harpsichord and clavichord from the Renaissance to the 20th century. The course focuses on the development of keyboard instruments and the forms and composers that dominate the literature

MUS. 213 Staff Symphony 3 credits

Development of the symphony as an independent genre, from its origins in the mid-eighteenth century to the present day. Works by Haydn, Mozart, Beethoven, Brahms, Tchaikovsky, Mahler, Shostakovich and Stravinsky will be among those considered

MUS. 217 Staff Opera 3 credits

The history of opera from its beginnings at the turn of the seventeenth century to the present with an emphasis on the nineteenth and twentieth centuries. Representative operas by Mozart, Verdi, Wagner and Puccini, among others, will be examined

MUS. 218 Dr. Perry American Musical Theatre 3 credits

The development of musical theatre in America from the nineteenth century to the present, emphasizing works composed since the 1940s. Musicals by Jerome Kern, Rodgers and

emphasizing works composed since the 1940s. Musicals by Jerome Kern, Rodgers and Hammerstein, Lerner and Loewe, Leonard Bernstein and Stephen Sondheim will be considered

MUS. 219 Prof. Buckley

History of Jazz

3 credits

A detailed examination of a "truly American musical form." Included will be discussions of major stylistic periods, compositions, and performers. Listening examples, as well as live performances, will contribute to an understanding of jazz from its origins to the present day

MUS. 221 Sr. Roccasalvo, C.S.J.

From Bach to Rock

3 credits

The music of Western civilization from J.S. Bach and G.F. Handel to recent developments of the 20th century. Special attention to Haydn, Mozart and Beethoven

MUS. 224 Sr. Roccasalvo, C.S.J. Going for Baroque 3 credits

A study of musical developments during the early, middle, and late Baroque period. Special attention will be paid to the Italian, English, and German Baroque, and to Jesuit contributions to sacred and secular music.

MUS. 226 Staff

Romantic Music of the Nineteenth Century

3 credits

A study of the major musical developments in the nineteenth century, the Romantic Period: the rise of piano literature, the art song, chamber and program music, and opera. Attention to nationalism

MUS. 228 Staff

Music of the Twentieth Century

3 credits

A study of the history and literature of Western classical music in the twentieth century. The various "isms" of the period, including impressionism, ex-pressionism, neo-classicism, serialism, and min-imalism, will be examined. Music 112 recommended as prerequisite

MUS. 231 Sr. Roccasalvo, C.S.J.

Russian and East European Music

3 credits

A survey of Russian and East European choral and instrumental music from the 10th century to the present. Includes music from Poland, Czechoslovakia, Hungary, Ukraine and Russia. Special focus on Chopin, Lizst, Smetana, Dvorak, Bartok, the "Mighty Five," Tchaikovsky, Rachmaninoff, Stravinsky.

MUS. 232 Staff

Music in Italy 3 credits

A survey of music in Italy from the Renaissance to the present day. Focus on: the centers of musical activity (Florence, Venice, Rome, Bologna); and vocal and instrumental genres, especially the string repertoire and families who made string instruments (Amati, Guarneri, Stradivari)

MUS. 233 Staff

Music in America

3 credits

An overview of music in the United States from colonial times to the present, with an emphasis on the twentieth century. Classical, popular, and traditional musical styles are considered, including the symphony, the opera, the Broadway show, jazz, rock, hymnody, and folk music

MUS. 235 Dr. Perry

Music Theory I

3 credits

The fundamental materials of tonal music: notes and rests, rhythm and meter, scales and modes, intervals, triads and seventh chords, melodic and harmonic organization, and an introduction to voice leading and part writing. Some knowledge of music notation helpful

MUS. 236 Dr. Perry
Music Theory II 3 credits

(Prerequisite: Mus. 235) Extension of the tonal vocabulary to include chromatic harmony, modulatory techniques, and the use of extended chords, as well as an overview of selected post-tonal procedures.

MUS. 280 Staff

Liturgical Music

3 credits

The role of music in the Roman Catholic Church. Emphasis on the practical rather than the historical. Recommended for any person, lay person or clergy, involved in developing church liturgy. No musical background required

MUS. 323 Staff Bach 3 credits

The music of Johann Sebastian Bach in the context of the musical forms, styles, and genres current in the first half of the eighteenth century. A survey of Bach's life and works is followed by detailed study of selected vocal and instrumental compositions

MUS. 324 Staff
Mozart 3 credits

An examination of Mozart's major works in the genres of symphony, concerto, chamber music, church music and opera, together with a brief biographical survey. The influence of late eighteenthcentury culture and musical conventions on Mozart's work is considered.

MUS. 325 Sr. Roccasalvo, C.S.J. Beethoven

3 credits

Study of a composer whose fiery personality drove him to express through music universal concepts in an age of revolution, i.e., freedom and the dignity of the person. Course traces the evolution of Beethoven's major works -- sonatas and concertos, symphonies and string quartets as well as Fidelio and the Missa Solemnis; and, the effect of his deafness on his view of life and on his later works.

MUS. 335 Staff

Introduction to Composition

3 credits

(Prerequisites: Mus. 235 and 236) Guided individual projects in original composition, together with the analysis of selected works from the classical repertory

MUS. 382-383 Staff **Guided Independent Study in Music** 3 credits

Courses meet specific needs and content and methodology will vary

BIOLOGY

DR. TOWNSEND, Chairperson

Courses in the Department of Biology are designed to achieve the following objectives: 1. to present the fundamental scientific facts and concepts which are needed for an understanding of the living world and people's relation to it; 2. to prepare students for advanced study or work in other biological fields.

The Bachelor of Science in Biology Program supplies preprofessional preparation meeting all requirements and recommendations of professional schools (medicine, dentistry, veterinary medicine).

While the department's record in the preparation of physicians is an impressive one as indicated earlier in the Pre-Medical section, its record as one of the baccalaureate sources of Ph.D's in the biological sciences is equally prestigious. A 1988 study by the office of institutional research at Franklin and Marshall College shows that over the last 66 years, the University of Scranton ranked 48th out of 877 four-year, private, primarily undergraduate institutions

The biology curriculum appears below. In selecting biology electives, all majors are required to take at least one course in each of the following 5 course groups (special exemption may be made by permission of the Chairperson):

Cellular (C) - Biol. 250, 344, 346, 348, 349, 350, 351, 352, 353, 358, 445, 450

Molecular (M) - Biol. 250, 344, 350, 351, 358, 361, 362, 363, 364;

Chem. 350, 351, 360, 450, 451

Organismal (0) - Biol. 195, 196, 241, 242, 245, 250, 270, 341, 343, 344, 345, 346, 347, 348,

349, 351, 370, 372, 445, 473

Genetics (G) - Biol. 260, 362, 363, 375

Population (P) - Biol. 195, 196, 270, 345, 349, 370, 371, 372, 375, 471, 472, 473

The premedical advisor's elective recommendations for preprofessional students are listed on page 44.

Dept. and No.		Descriptive Title of Course		
•	Credits	•		
		FRESHMAN	FALL	SPRING
MAJOR	Biol. 141-142	General Biology I-II	41/2	41/2
COGNATE	Chem. 112-113	General &		
		Analytical Chem	41/2	41/2
GE AREA III	Communications	Electives	3	3
GE AREA IV	Humanities	Elective*		3
GE AREA V	Phil. 120	Introduction to		
		Philosophy	3	
GE AREA V	T/RS 121	Theology I		3
PHYS EDUC	Ph. Ed.	Physical Education_	1	1
			<u> 16</u>	19
		SOPHOMORE		
MAJOR	Biology	Biology Electives	4	4
COGNATE	Chem. 232-233	Organic Chemistry		41/2
COGNATE	Math 114 - Elective	Analysis I** - Cogna	ate or	
		Major Elective	4	4
GE AREA III	Communications	Elective	3	
GE AREA IV	Humanities	Electives	3	6
PHYS EDUC	Ph.Ed.	Physical Education_	1	<u> </u>
		191/2	191/2	

		JUNIOR		
MAJOR	Biology	Biology Electives	6	6
COGNATE	Physics 120-121	General Physics	4	4
GE AREA II	Social/Behavior	Elective		3
GE AREA V	Phil. 210-Elective	Ethics-Elective	3	3
GE AREA V	T/RS 122	Theology II	3	
GE FREE	Electives	Electives	3	3
		19	19	_
		SENIOR		
MAJOR	Biology	Biology Electives	6	7
GE AREA II	Social/Behavior	Electives	6	3
GE AREA IV	Humanities	Electives	3	3
GE AREA V	PhilT/RS	Philosophy and/or		
		Religious Studies		3
		15	16	

^{*} General Education recommendations:

TOTAL: 143 credits

6 credits English literature in Area IV, Comm. 100 and English 107 for Area III

MINOR: To gain a minor in biology, a student must complete Biology 141-142 or Biol. 101-102, Biology 141-142 laboratory, and 15 additional credits of courses suitable for the biology major. Biology electives must be selected to fill at least 3 of the 5 established course groups, and must include at least three credits of advanced laboratory work. It is strongly suggested that a potential biology minor seek the advice of the Biology chairperson concerning the selection of electives suitable to his/her personal goals.

BIOL. 100

Staff

* Modern Concepts of Biology 4 credits

Exploration of the practical impact which modern biological concepts have on our lives. Topics include cell function, genetics, plant and human biology, genetic engineering, cancer, AIDS and dying. Provides a framework for making informed ethical decisions as a citizen regarding pertinent biological issues. 3 hours lecture; 2 hours lab. Fall only.

BIOL. 101 & 102 General Biological Science

Dr. Sweeney

6 credits

(Recommended Prerequisite for Biol. 102: Biol. 101) The nature of living organisms and general biological principles, as they affect man, are stressed in general terms

BIOL. 103 Social Biology Dr. M. Carev

3 credits

A discussion of current advances and controversies in biology and medicine, their social and ethical implications, and public policy problems raised by them. Topics may include definitions of life and death, organ transplantation, population control, genetic engineering, environmental crises, evolution vs. creationism, and the nature of human nature

BIOL. 110 & 111

Staff

* Structure and Function of the Human Body

8 credits

^{**} Math 103 (taken before Math 114) if indicated by Math Placement Test results. Otherwise, credits may be taken in Math, Biology, Chemistry, or Physics

^{*} Please note: Biology courses numbered 100 - 139 and 200 - 239 are not open to Biology majors. Courses with a title prefixed by an asterisk require concurrent enrollment in lecture and lab.

A general study of the anatomy and physiology of the human organism emphasizing the bodÿs various coordinated functions from the cellular level to integrated organ systems. 3 hours lecture, 2 hours lab each semester.

BIOL 112 Dr. Anderson

Perspectives in Anatomy and Physiology

2 credits

Designed for the registered nurse student. Willexplore recent physiological concepts to provide a foundation for further study. Topics may include cellular theory, cardiovascular physiology, neurophysiology, renal physiology, stress and immunity, infectious disease and the genetic basis of disease. Special attention given to the needs of the student; hence topics are expected to vary from year to year. Fall, as needed. (Course open to RN students only)

BIOL. 141 & 142 Staff
* General Biology 9 credits

A comprehensive study of the nature of living organisms, both plant and animal, their structure, function, development and relationships, including the problems of development, heredity and evolution. 3 hours lecture, 3 hours lab each semester

BIOL. 195
Tropical Biology (O, P)
Dr. Conway
3 credits

Study of tropical communities with emphasis on the coral reef. Introduction to a variety of other tropical areas, such as sandy beaches, turtle grass beds, mangrove swamps, tide pools, rocky shores, and rainforests. Approximately 2 weeks will be spent at a biological station in the American tropics. Swimming proficiency required. (Majors and GE Area I) Intersession only

BIOL. 196 (O, P) Dr. Conway
African Photo Safari 3 credits

Natural history of Eastern Equatorial Africa with special emphasis on the delicate ecological balance between plant and animal communities. The savannah plains, tropical mountain forests, northern frontier and Great Rift Valley will be visited for first-hand study of the tremendous diversity of fauna and flora. (Majors and GE Area I) Intersession only

BIOL. 201 Dr. Kwiecinski
Anatomy & Physiology 3 credits

An introduction to the biochemical, cellular, tissue and organismal organization of selected body functions; structure in relation to function is emphasized

BIOL. 202 Dr. McDermott
The ABC"S Of Genetics 3 credits

Heredity for the non-science major, with emphasis on the human. Provides the background necessary for the non-scientist to understand his/her own hereditary background and to have informed opinions about societal issues related to genetics. Includes Mendelian, molecular, and population genetics, evolution, genetic diseases, genetic engineering, etc

BIOL. 203 Dr. Hardisky
Horticulture 3 credits

The basics of plant growth and propagation. Topics include photosynthesis, water relations, nutrition, hormones, propagation, pathology and basic cultivation techniques. The laboratory will include plant anatomy, propagation and cultivation of ornamental plants and basic physiological experimentation. 2 hours lecture, 2 hours lab. (GE Area I)

BIOL. 204 Dr. DelVecchio
Everyday DNA 3 credits

A comprehensive study of the nature and function of the genetic material and its relation to modern genetic engineering techniques, the application of these techniques, and their impact on modern life.

BIOL. 210 Dr. McDermott
* Introductory Medical Microbiology 3 credits

(Pre- or co-requisites: Biol. 110-111; Chem. 110-111) Fundamentals of microbiology, including structure, function, identification, pathogenesis, epidemiology and control of microorganisms with emphasis on human pathogens. 2 hours lecture, 2 hours lab; Fall only

BIOL. 241 & 242 Fr. MacEntee

* Comparative Vertebrate Anatomy (O)

8 credits

(Prerequisite: Biol. 141-142) Structure and phylogeny of vertebrate organ-systems, emphasizing mammalian structure in relation to its function. Amphioxus, shark, and necturus are subjected to detailed laboratory study in first semester and the cat in the second semester. 2 hours lecture, 4 hours lab each semester.

BIOL. 245 Staff

* General Physiology (O)

41/2 credits

41/2 credits

(Prerequisites: Biol. 141-142, Chem. 112-113) Physiological processes underlying functioning of the animal organism. Study of irritability, excitation, conduction, contractility, cellular physiology, and functions of mammalian organ-systems. 3 hours lecture, 3 hours lab

BIOL. 250 * Microbiology (C, O, M) Fr. Beining, Dr. Sulzinski

(Prerequisite: Biol. 141-142, Chem. 112-113) Structure, function, growth, reproduction, heredity and relationships of bacteria, yeasts, molds, virus; a brief survey of pathogens, life cycles of parasitic microzoa; introduction to disease and immunology. 3 hours lecture, 3 hours lab; not open to Nursing majors.

BIOL. 260 Dr. McDermott * Genetics (G) 41/2 credits

(Prerequisite: Biology 141-142 or 101-102) Mendelian, cyto-, population and evolutionary, and basic molecular genetics; emphasis on eucaryotes. 3 hours lecture, 3 hours lab

BIOL. 270 Dr. Townsend

* Biology of the

41/2 credits

Vascular Plants (O, P)

(Prerequisite: Biology 141-142 or 101-102) A survey of the vascular plants with respect to anatomy, life history and reproduction, ecology and natural history, evolution and systematics. Emphasis will be on the flowering plants as the dominant plant group of terrestrial communities. Laboratory will focus on taxonomy, identification, and natural history of local plants and ecology of local plant communities. 3 hours lecture, 3 hours lab. Spring-odd years.

BIOL. 341 Dr. Evans

* Embryology (O)

4 credits

(Prerequisite: Biol. 241) Comparative study of reproduction, gametogenesis, fertilization, cleavage, morphogenesis, development of organ systems in frog, chick and pig. 2 hours lecture, 4 hours lab

BIOL. 343 Dr. Evans Parasitology (O) 3 credits

(Prerequisite: Biol. 141-142) Study of human, animal and plant parasites including host-parasite resistance, tolerance, immunity, and evolution. 3 hours lecture. Spring only

BIOL. 344 Fr. Beining

Principles of Immunology (C,O,M)

41/2 credits

(Strongly recommended prerequisite: Biol. 250) The basic molecular, cellular and organismal aspects of the immune response, emphasizing chemical and functional bases of antigens and immunoglobulins, cellular and humoral response, tolerance, immune deficiency, hypersensitivity, autoimmunity, blood groups, transplantation. 3 hours lecture, 3 hours lab; lecture and lab should be taken concurrently. Spring only.

BIOL. 345 Dr. Anderson Comparative Animal Physiology (P,O) 3 credits

(Prerequisite: Biol. 245) The physiological principles involved in adaptations of animals to their environment from a comparative viewpoint; osmotic control, temperature regulation, nerve and muscle physiology, sensory perception, etc. 3 hours lecture. Spring-odd years.

BIOL. 346 Dr. J. Carey

Endocrinology and Reproduction (C,O)

3 credits

(Prerequisite: Biol. 245) The mammalian endocrine system; emphasis on molecular mechanisms of hormone action, feedback control of hormone production, integration with other physiological systems, and reproductive endocrinology. 3 hours lecture. Spring only

BIOL. 347 Dr. Conway **Exercise Physiology (O)** 3 credits

(Prerequisite: Biol. 245) Study of the anatomical and physiological effects of exercise, centering around control of physical performance by capacity to generate energy through aerobic and anaerobic pathways; include the effects of heredity, age, nutrition, training and environment on performance. Emphasizes the multidimensional role of exercise in weight control, cardiovascular fitness, stress management, fatigue, strength, etc. 3 hours lecturedemonstration. Alternate years

BIOL. 348 Dr. Adams Neurophysiology (C, O) 4 credits

(Prerequisite: Biol. 245, or, for Neuroscience majors, Psych. 231) Study of the organization and function of the neuron, neural circuits, and the major sensory and motor components of the central nervous system; bioelectric phenomena, synaptic transmission; the neural basis for higher functions such as cognition, memory, and learning. Three hours lecture; two hours lab

BIOL. 349 Dr. Hardisky Plant Physiology (C, O, P) 5 credits

(Prerequisite: Biol. 141 or 101 or permission of instructor) Functional anatomy and physiology of plants, including structure, photosynthesis, respiration, mineral nutrition, water relations. productivity, growth and differentiation, transport, stress physiology, and energy flow. 3 hours lecture, 3 hours lab. Spring only.

BIOL. 350 Dr. Greuel * Cellular Biology (C, M) 5 credits

(Prerequisite: Biol. 141-142) Study of structure-function relationships in eukaryotic cells. Emphasis on cell membranes, cell organelles, cytoskeleton, and extracellular matrices. Regulation of cell proliferation, signaling, recognition/adhesion, and motility will be examined, particularly as they relate to malignancy. Labs focus on experimental studies of cellular structure and function using techniques of modern cell biology. 3 hours lecture, 3 hours lab. Fall only

BIOL. 351 Dr. Greuel

* Developmental Biology (C, O, M)

5 credits

(Prerequisite: Biol. 141-142; Strongly recommended prerequisite: Biol. 350) Development of vertebrates and invertebrates from gametogenesis through organogenesis. Emphasis on cellular and molecular mechanisms involved in differentiation, morphogenesis, and determination of the body plan. Labs focus on experimentation with living, developing organisms. 3 hours lecture, 3 hours lab. Spring only.

BIOL. 352 Dr. Evans 4 credits

* Histology (C)

(Prerequisite: Biol. 241) Microscopic structure and functional relationships of vertebrate tissues and organs with emphasis on the mammal. 2 hours lecture, 4 hours lab

BIOL. 353 Dr. Kwiecinski * Histotechniques (C) 5 credits

(Prerequisites: Chem. 232-233, Biol. 352) Basic and standard histological procedures for histotechnologists, biology majors, pre-medical students, and research scientists. Lectures focus on basic theory/methodology. Labs focus on demonstration/practice of techniques. 2 hours lecture, 6 hours lab.

BIOL. 358 Dr. Adams

Cellular and Molecular Neurobiology (C, M)

3 credits

(Prerequisites: Biol. 141-142) Introduces biology and neuroscience majors to the cellular and molecular biology of the vertebrate nervous system. Includes ion channel structure and function, synthesis, packaging and release of neurotransmitters, receptor and transduction mechanisms, intracellular signalling, cell-to-cell communication, glial cell function, and neural growth and development. 3 hours lecture. Spring-odd years.

BIOL. 361 * Molecular Biology I (M) Dr. Dwyer

5 credits

(Prerequisites: Biol. 141-142, Chem. 232-233) Structure and function of prokaryotic cells from a molecular viewpoint. Study of biomacromolecule structure and function; bacterial DNA replication, transcription, translation and how these processes are regulated. 3 hours lecture, 3 hours lab; Fall only.

BIOL. 362 Molecular Biology II (M, G) Dr. Dwyer 3 credits

(Prerequisite: Biol. 361) The structure and function of eucaryotic cells and organisms from a molecular viewpoint. Study of eucaryotic gene organization, DNA packaging and replication, RNA transcription and splicing, translation into proteins and how these processes are regulated. Discussion of development, cancer and evolution on the molecular level. 3 hours lecture. Spring only.

BIOL. 363 Dr. DelVecchio

* Genetic Engineering (M,G)

5 credits

Study of the nature and function of the gene with emphasis on the experimental evidence which gave rise to the present concepts of genetic engineering. Strong emphasis is placed on recombinant DNA techniques in both lecture and laboratory. 3 hours lecture, 3 hours labSpring only.

BIOL. 364 Dr. Sulzinski * Virology (M) 5 credits

(Prerequisites: Biol. 141-142; Chem. 232-233) A detailed survey of viruses important to animals and plants, including structure, replication, pathogenicity and diagnostic techniques. Strong emphasis is placed on the molecular biology of viruses in both lecture and lab. 3 hours lecture, 3 hours lab; Fall only.

BIOL. 370 Dr. M. Carey Animal Behavior (P, O) 41/2 credits

(Prerequisite:Biol. 141-142 or 101-102)Classifi-cation of behavior types, development, functional advantages and evolution of behavior, and social and physiological aspects studied in lower and higher organisms. 3 hours lecture, 2 hours lab. Spring only

BIOL. 371 Dr. Townsend * Ecology (P) 5 credits

(Prerequisites: Biol. 141-142 or 101-102) Study of physical, chemical, and biological factors that influence the distribution and abundance of organisms and determine the relationships among organisms from the population to the ecosystem level. 3 hours lecture, 3 hours lab; Fall- odd vears.

BIOL. 372 Dr. Townsend * Vertebrate Biology (O, P) 5 credits

(Prerequisite: Biol. 141-142 or 101-102) A survey of vertebrates, covering functional morphology, behavior, ecology, paleontology, and systematics using a comparative approach to vertebrate evolution and diversity. Laboratory will involve both study of preserved material and field experiences in behavior and ecology of local vertebrates. 3 hours lecture, 3 hours lab; Fall- even years.

BIOL. 375 Dr. M. Carey **Evolution (G, P)** 3 credits

(Prerequisites: Biol. 141-142 or 101-102) A consideration of the theories of evolution and evidences for them in plants and animals. Population genetics and the adaptiveness of various organic traits will be discussed. Fall only.

BIOL. 379 Dr. Townsend 3 credits

(Prerequisite: Math 103) Data analysis and statistical techniques in biology and medicine; probability and frequency distributions, descriptive statistics, hypothesis testing, and various parametric and nonparametric statistical tests. Course will involve use of one or more computerized statistical programs. Spring only.

BIOL. 384 Staff

Special Topics in Biology

2-4 credits

Study of selected topics in biology, varying from year to year based on studen/faculty interest and current research advances. May include such topics as sensory reception, membrane biology, population genetics, etc.

BIOL. 393-394 Staff

Undergraduate Research

Variable credit

Prerequisite: 12 credits in Biology) Individual problems for advanced students with sufficient background in biological and physical sciences. Subject time and credit arranged individually

BIOL. 445 Dr. Kwiecinski

Mammalian Physiology (C, O)

3 credits

(Prerequisites: Biol. 245 and Chem. 232-233) Molecular, cellular, and tissue aspects of selected organ systems not normally covered in General Physiology, including calcium and skeletal homeostatic systems, integumentary system, gastrointestinal system, and aspects of nervous (e.g., sense organs), endocrine, reproductive, and lymphatic systems

BIOL. 450 Dr. Anderson

* Electron Microscopy (C)

5 credits

(Prerequisites: Biol. 141-142) Introduction to the mechanics of the electron microscope with emphasis on standard laboratory techniques, including preparation of materials, sectioning, viewing and photographic analysis. 1 hour lecture, 6 hours lab; Spring-even years.

BIOL. 471 Staff

Applied Ecology (P)

3 credits

(Prerequisites: Biol. 371 and Chem. 340) The application of ecological principles and concepts to environmental problems; including consideration of their origins, effects on living systems, and potential solutions. Consideration of such issues as biodiversity, habitat degradation and loss, conservation biology, ecosystem management, wildlife ecology, agroecology, pollution, and global climate change. 3 hours lecture.

BIOL. 472 Dr. Hardisky
Systems Ecology (P) 3 credits

(Prerequisite: Biol. 371) The study of ecosystem dynamics and their relationship to the functioning of the biosphere. A quantitative approach to ecosystem structure and function emphasizing the use of simulation and conceptual models. The course will involve opportunities to construct and test simulation models. 3 hours lecture

BIOL. 473 Dr. Hardisky
Marine Biology (O, P) 5 credits

(Prerequisites: Biol. 141 or 101 or permission of instructor) The ecology of marine and estuarine systems, including soil chemistry, halophyte physiology, tidal marsh ontogeny, ecosystem function and the consequences of human alteration of the coastal zone. Lab includes a mandatory weekend in Lewes, DE. 3 hours lecture, 3 hours lab. Fall only.

CHEMISTRY

DR. DREISBACH, Chairperson

The department offers five majors: Chemistry, Biochemistry, Chemistry-Business, Chemistry-Computers, and Medical Technology. The program in Chemistry is approved by the American Chemical Society, which means that graduates may be certified by the American Chemical Society if they meet the requirements. In addition, Chemistry and Biochemistry are offered in conjunction with the Graduate School in five-year B.S.- M.A. degree programs. The strength of the department is indicated by the fact that the University of Scranton has been one of the leading schools in the country in the number of master's degrees awarded in chemistry.

The prestige of the department is also demonstrated by a recent study of the office of institutional research at Franklin and Marshall College which ranked the University of Scranton 34th out of 917 private, four-year, primarily undergraduate colleges as the baccalaureate source of those earning Ph.D."s in chemistry between 1981 and 1990.

Recent graduates of the department have been admitted to doctoral programs at a number of major universities including Harvard, Cornell, Johns Hopkins and Pennsylvania. In addition some graduates have attended medical and dental schools and some have gone on to law school

In both the Chemistry and Biochemistry programs, the departmental General Education Area recommendations are six credits of modern language from AREA III, Area IV, or FREE AREA

MINOR. The minor in Chemistry will include the following requirements: Organic chemistry (6 credits), Physical chemistry (6 credits), Chemistry Laboratory (3 credits)

CHEN	IISTI	RY
Dept.	and	No.

Descriptive Title of Course

•	Credits	•		
		FRESHMAN	FALL	SPRING
MAJOR	Chem. 112-113	General Analytical		
		Chemistry I-II	41/2	41/2
COGNATE	Math. 103-114 or	Pre Calculus-Analysis I		
	114-221	or Analysis I-II	4	4
GE AREA II	Social/Behavior	Elective		3
GE AREA III	Communications	Electives*	3	3
GE AREA IV		Electives	3	3
GE AREA V	Phil. 120	Introduction to		
		Philosophy	3	
PHYS EDUC	Ph.Ed.	Physical Education	1	1
_			<u>18</u> 1/2	181/2
		SOPHOMORE		
MAJOR	Chem. 232-233	Organic Chemistry I-II	41/2	41/2
MAJOR	Chem. 240	Inorganic Chemistry		3
COGNATE	Math 221-222 or 222-341	Analysis II-III or Analysis		
		III and Diff. Equations	4	4
COGNATE	Physics 140-141	Elements of Physics	4	4
GE AREA V	T/RS 121	Theology I	3	
GE AREA III	CMPS. 134	Computer Science 1	3	
PHYS EDUC	Ph.Ed.	Physical Education	1	1
		191/2	161/2	
		JUNIOR		
MAJOR	Chem. 330-370	Organic Chem. III		
		Instrum. Anal.	5	5
MAJOR	Chem. 362-363	Physical	4.4.60	44.5
		Chemistry I-II	41/2	41/2

MAJOR	Chem. 390-391	Chemical Literature-		
		Seminar	1	1
GE AREA II	Social/Behavior	Electives	3	3
GE AREA IV	Humanities	Electives	3	3
GE AREA IV	Phil. 210	Ethics	3	
GE FREE	Elective	Elective		3
			191/2	191/2
		SENIOR		
MAJOR	Chem. 440-	Adv. Inorganic		
	Chem.Chem. 440L	Inorg. Lab	3	11/2
MAJOR	Chem. 493-494	Undergraduate		
		Research	11/2	11/2
MAJOR	Chem. Elective	Chemistry Elective-		
		300 level or above		3
GE AREA II	Social/Behavior	Elective		3
GE AREA IV	Humanities	Electives	3	3
GE AREA V	T/RS 122-PhilT/RS	Theol. II-Phil./Theol. Elec.	6	3
GE FREE	Elective	Elective		3
			161/2	15

TOTAL: 1431/2 credits

N.B. For A.C.S. certification, Chemistry majors must complete Analysis III, Math 341, and two upper division chemistry electives.

^{*} Department recommends Comm. 100 and Engl. 107

BIOCHEMISTRY

The Bachelor of Science in Biochemistry Program parallels the B.S. in Medical Technology for the first two years so that opportunity is afforded the student to change from one program to the other

MINOR. The minor in Biochemistry will include the following requirements: Organic chemistry (6 credits), Biochemistry (3 credits), Biophysical Chemistry (3 credits), Chemistry Laboratory (3 credits).

Dept. and No).	Descriptive Title of Course		
	Credits			
			FALL	SPRING
MAJOR	Chem. 112-113	General Analytical		
		Chemistry I-II	41/2	41/2
COGNATE	Math. 103-114 or	Pre-Calculus Math &		
	114-221	Analysis I or		
00011475	D: 1 444 440	Analysis I-II	4	4
COGNATE	Biol. 141-142	General Biology I-II	41/2	41/2
GE AREA III GE AREA V	Communications* T/RS 121	Electives* Introduction to Theology	3	3
PHYS EDUC		Physical Education	1	1
FIII 3 LDGC	r II.Lu.	Filysical Education	17	20
			.,	20
		SOPHOMORE		
MAJOR	Chem. 232-233	Organic Chemistry I-II	41/2	41/2
MAJOR	Chem. 240	Inorganic Chemistry		3
COGNATE	Phys. 120-121	General Physics	4	4
GE AREA II	Social/Behavior	Electives	3	3
GE AREA V	Phil. 120	Introduction to Philosophy		3
GE AREA III	Cmps. 134	Computer Science I	3	
GE AREA IV		Elective	3	
PHYS EDUC	Ph.Ed.	Physical Education	101/2	<u>1</u> 181/2
=			<u>18</u> 1/2	101/2
		JUNIOR		
MAJOR	Chem. 330-370	Organic Chem. III	31/2	
	01101111 000 07 0	Instrumental Analysis	0.72	5
MAJOR	Chem 360-361	Biophysical Chemistry I-II	41/2	41/2
MAJ/		, ,		
COGNATE	Electives	Electives-200 level or above	3	3
MAJOR	Chem. 390-391	Chemical Literature-Seminar		1
GE AREA II	Social/Behavior	Elective	3	
GE AREA IV		Elective		3
GE AREA V	Phil. 210	Ethics	3	
GE AREA V	T/RS 122	Theology II	40	<u>3</u> 191/2
			18	191/2
		SENIOR		
MAJOR	Chem. 450-451	Biochemistry I-II	41/2	3
MAJOR	Chem. 493-494	Undergraduate Research	11/2	11/2
GE AREA IV	Humanities	Electives	6	6
GE AREA V	Phil-T/RS	Electives	3	3
GE AREA II	Social/Behavior	Elective		3
			15	161/2

TOTAL: 143 credits

^{*} Department recommends Engl. 107, Comm. 100

N.B. for A.C.S. certification, Biochemistry majors must take Math 114, 221, 222, 341, Physics 140-141 in place of Physics 120-121, and Chem. 440 and 440L

CHEMISTRY-BUSINESS

The Chemistry-Business major combines theoretical and technical instruction in Chemistry with management training in Business. Graduates of this program will be concerned not only with chemical research and technological development but also with management problems in science-related industries.

Most chemistry majors tend to be research-oriented although almost half of the approximately 100,000 chemists employed in American private industry are engaged in work other than research and development: management, marketing and sales. This combined degree was formulated to prepare chemists to assume these latter responsibilities

From the point of view of the business student, almost one-third of all business graduates can expect to be employed in a chemistry related field: pharmaceuticals, plastics, petroleum, etc. Most business majors employed in such industries must develop, often on their own, the technical knowledge needed to understand their company's operations and products. A fundamental background in chemistry as provided in this concentration is a distinct advantage to individuals planning such a career.

Dept. and No	o. Credits	Descriptive Title of Course	
		FRESHMAN FALL SPRING	`
MAJOR	Chem. 112-113	Gen. Analytical Chem. I-II 41/2 41/2	
COGNATE	Math 103-114 or 114-		_
000.0.1.2			4
GE AREA II	Econ. 153-154		3
GE AREA III	Communications*		3
PHYS EDUC			1
		151/2 151/2	_
		SOPHOMORE	
MAJOR	Chem. 232-233	Organic Chemistry I-II 41/2 41/2	2
MAJOR	Acc. 253-254		3
GE AREA V	Phil. 120	Introduction to Phil. 3	
GE AREA III	CMPS 104	Computing for Business	
		and Social Sciences 3	
GE AREA IV			6
GE AREA V	T/RS 121	Introduction to Theology 3	
GE AREA V	Phil. 210		3
PHYS EDUC	Ph. Ed.	,	<u>1</u>
		171/2 171/2	2
		JUNIOR	
MAJOR	Chem. 320-Elective	Industrial Chemistry I-Elective	
		•	3
MAJOR	Chem. 391	_	1
MAJOR	Mgt. 351	Principles of Management I 3	
MAJOR	Mgt. 352	Principles of Management II	3
MAJOR	Mkt. 351	Intro. to Marketing 3	
MAJOR	Fin. 351	Intro. to Finance	3
COGNATE	CMPS 330	Information Systems 3	
COGNATE	Math 204	Special Topics in Statistics	3
GE AREA II	Social Behavior	Elective 3	
GE AREA IV			3
GE AREA V	Phil 211-T/RS 122		<u>3</u>
-		<u>18</u> 19	9
		SENIOD	
MAJOD	OMC 251 DOM 252	SENIOR	2
MAJOR	QMS 351-POM 352	Intro. to Mgt. Science- 3	3

		Prod. and Op. Mgt.		
MAJOR	Mgt. 251	Legal Environment		
		of Business	3	
COGNATE	Phys. 120-121	General Physics	3	3
GE AREA II	Social/Behavior	Electives	3	
GE AREA IV	Humanities	Electives	6	3
GE AREA V	PhilT/RS	Elective		3
GE FREE				6
_			<u>18</u>	18
GE AREA II GE AREA IV GE AREA V	Social/Behavior Humanities	Electives Electives	3 6	3 3 6

TOTAL: 139 credits

^{*} Department recommends Comm. 100 and Engl. 107

Dept. and No.

CHEMISTRY-COMPUTERS

The program Chemistry-Computers is designed to provide a vehicle for preparing students in the area of intensive computer use in the field of chemistry. The use of computers has long been important in chemistry, but in recent years areas such as molecular modeling and design have become increasingly important. Drug companies use these techniques for the design of drugs for particular medical problems. In addition, most of the modern analytical instruments are highly enhanced by on-line computer processing of data. This program is designed to enable students to enter industry or graduate programs in areas such as computational chemistry, chemical information retrieval, or molecular design

Descriptive Title of Course

TOTAL: 148 credits

^{*} Department recommends Comm. 100 and Engl. 107

^{**} Electives must be at 300 or 400 level

B.S. IN MEDICAL TECHNOLOGY

The Bachelor of Science in Medical Technology degree program, under the direction of Dr. Michael Cann, is designed to train and qualify students as medical technologists or clinical laboratory scientists serving hospitals, clinical laboratories, industrial or research institutions. The program meets and exceeds the requirements of the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS). The program involves the satisfactory completion of the first three years of a curriculum of study (indicated below) at the University of Scranton and the fourth year of clinical education at a hospital having a School of Medical Technology approved by NAACLS. After completing the program, students take a national certification examination. To date the University has arranged affiliation with hospitals in the cities of Allentown, Bryn Mawr, Abington, Danville, Williamsport, Somerville, Wilkes-Barre, New Brunswick, Philadelphia, Scranton and Paterson. See affiliations at the end of this Bulletin

The curriculum for the BSMT closely parallels the B.S. in Biochemistry program so that students have the option to change to the latter after two years, should their career goals change

Dept. and No.		Descriptive Title of Course		
	Credits	FRESHMAN FA		SPRING
MAJOR	Chem. 112-113	General Analytical	LL	SPRING
MAJOR	Chem. 112-113	•	1/2	41/2
COGNATE	Biol. 141-142	-	1/2	41/2
GE AREA II	Social/Behavior	Elective	., _	3
GE AREA III	Engl. 107 - Comm. 100	Composition-Public Speaking	3	3
GE AREA V	Phil. 120	Introduction to Philosophy	3	
GE AREA V	T/RS 121	Theology I		3
PHYS EDUC	Ph.Ed.	Physical Education	1	<u> </u>
			16	19
		CORLOMORE		
MAJOD	Cham 222 222	SOPHOMORE	4/0	44/0
MAJOR COGNATE	Chem. 232-233		1/2	41/2
COGNATE	Biol. 250-245	Microbiology-General Physiology 4	1/2	41/2
COGNATE	Math 103-114	Pre-Calculus Math-Analysis I	4	4 1/2
GE AREA IV		Elective	3	3
GE AREA V		Ethics-Theol. II	3	3
PHYS EDUC		Physical Education	1	1
		20	20	
MALOD	Oh 250 270	JUNIOR	0	_
MAJOR	Chem. 350-370	Intro Biochem I-Instru. Anal.	3 4	5 4
COGNATE COGNATE	Phys. 120-121 Biol. 344	General Physics Principles of Immunology	3	4
GE AREA II	Social/Behavior	Elective	3	3
GE AREA IV		Electives	3	3
GE AREA V	Phil. 212; PhilT/RS	Medical Ethics;	3	O .
OL /IIIL/II V	PhilTheo. Elec.	Wodicar Etimos,	3	
COGNATE	CMPS 134	Computer Science I	•	3
		•	19	18
		SENIOR		
		Clinical Education		
MAJOR		Clinical Microbiology		
MAJOR		Clinical Chemistry		
MAJOR		Clinical Hematology/		
		Coagulation		
MAJOR		Clinical Immunohematology		
MAJOR		Clinical Immunology/Serology		
MAJOR		Clinical Seminar		

16 16

TOTAL: 144 credits

N.B. There is a \$125 Clinical Year Fee charged for each semester of senior year to cover University administrative cost. The student is not, however, charged University tuition for the credits earned in senior year. Some hospitals may charge their own fees. The department has an outstanding record in having its students accepted into medical technology programs. It should be clear, however, that admission to clinical education is competitive and dependent on the students academic record and success in the interview. The hospital is responsible for selection. A delay in beginning the clinical education may delay a student's graduation. Credits for senior year courses vary from 28 to 32 depending on the hospital. Course titles in that year may also vary

C/CJ 200 Dr. Vinson

Forensic Science

Designed for law enforcement majors as well as science majors, this is a study of the rules of evidence and the position of the expert scientific witness in law, followed by a review of the uses of scientific, and particularly chemical, evidence in various phases of the investigation and trial of criminal actions. (Area I).

CHEM. 100 Staff

Elements of Chemistry

3 credits

3 credits

An elementary study of the field of chemistry for the non-science major; concepts of structure, states of matter, modern developments, implications of the field for modern society. 3 hours lecture. (GE Area I)

CHEM. 104 Staff **Science and Society** 3 credits

A study of some current problems of a scientific and technological nature from the point of view of the non-science major. Scientific background will be provided to lead to greater understanding and possible solutions. Possible topics: energy, genetic engineering, narcotics, pesticides, etc. 3 hours lecture. (GE Area I).

CHEM. 110-111 Staff

Introductory Chemistry

6 credits

A study of the fundamental concepts of general chemistry, organic chemistry, and biochemistry. Laboratory work emphasizes skills and procedures relevant to the living system. 3 hours lecture each semester.

CHEM. 110L-111L Staff 2 credits

Introductory Chemistry Laboratory (Lecture is required as pre- or corequisite; Chem. 110L is prerequisite for Chem. 111L)Experiments dealing with principles of general, organic and biological chemistry are performed. 2 hours laboratory each semester.

CHEM. 112-113 Staff

General and Analytical Chemistry

6 credits

A study of the laws, theories and principles of general chemistry together with qualitative and quantitative analysis. 3 hours lecture each semester

CHEM. 112L-113L Staff

General and Analytical Chemistry Laboratory

3 credits

(Lecture is required as pre- or corequisite; Chem. 112L is prerequisite for Chem 113L) Experiments involve semi-micro techniques for qualitative and quantitative analysis (gravimetric and volumetric analysis). 3 hours laboratory each semester

CHEM. 114 Staff

General Analytical Chemistry Laboratory

2 credits

A special laboratory course for those students who are advanced in chemistry. The laboratory work covers semi-micro techniques of gravimetric and volumetric quantitative analysis. Admission to this course will be on the basis of a placement exam and the professor's permission. 4 hours

laboratory. Note: For students with majors in the Chemistry and Biology departments this course will satisfy the requirements for the Chemistry 112 - 113 laboratory courses

CHEM. 232-233 Staff

Organic Chemistry

6 credits

(Prerequisites Chem. 112-113) An introduction to the chemistry of the principal aliphatic and aromatic compounds of carbon and their derivatives. 3 hours lecture each semester

CHEM. 232L-233L Staff

Organic Chemistry Laboratory

3 credits

(Lecture is required as pre- or corequisite; Chem. 232L is prerequisite for Chem. 233L) Investigation of the chemical preparations and syntheses of major organic functional groups. 3 hours laboratory each semester.

CHEM. 240 Dr. Marx

Inorganic Chemistry

3 credits

(Prerequisite Chem. 113) Descriptive chemistry of main group and selected transition elements and their compounds correlated with the periodic table, physical properties, atomic and molecular structure.

CHEM. 320-321 Dr. Dickneider

Industrial Chemistry

6 credits

A review of chemical operations and unit or batch processes common to the industry. Econometric analysis involving supply-demand, productivity, commodity prices and costing is an important area covered as are measures of productivity and patent activity. 3 hours lecture

CHEM. 330 Drs. Cann, Dickneider

Organic Chemistry III

2 credits

(Prerequisites: Chem. 232-233) A continuation of Chemistry 232-233, emphasizing the study of the major types of organic mechanisms. 2 hours lecture

CHEM. 330L Staff

Organic Chemistry III

1.5 - 3 credits

(Lecture is required as pre- or corequisite) Experiments involve advanced techniques in synthesis and characterization of organic compounds. 6 hours laboratory for chemistry majors and 3 hours laboratory for biochemistry majors.

CHEM. 340 Staff Environmental Chemistry 3 credits

(Prerequisite:Chem. 232-233) A study of chemicals in the environment including their origin, transport, reactions, and toxicity in soil, water, air and living systems

CHEM. 342 Staff

Environmental Toxicology

3 credits

(Prerequisite:Chem. 232-233, Biol. 141-142) This course will encompass several realms of environmental toxicology, including general toxicological theory, effects of contaminants on various biological systems, and discussion of environmental toxicological issues (i.e., specific case studies as well as the types of analyses used in these types of studies)

CHEM. 344 Staff

Environmental Geochemistry

3 credits

(Prerequisite:Chem. 232-233) A consideration of the natural cycles (Carbon, sulfur, oxygen, water, etc.) that govern the chemistry of our planet. Also considered will be the origins of the elements and the origin, paleohistory, and composition of the planet itself. The effect of maris activities in natural resource use, ozone depletion, greenhouse gas production, and fossil fuel production and use will be examined in detail, with particular attention to their effects on the state of the oceans and the atmosphere.

CHEM. 350

Drs. Dreisbach, Wasilewski

General Biochemistry I

3 credits

(Prerequisites: Chem. 233) An introduction to the study of biochemistry. A study of the chemical nature of lipids, carbohydrates, proteins, nucleic acids and enzymes including relationships among vitamins, hormones, and inorganic compounds. 3 hours lecture

CHEM. 351

Drs. Dreisbach, Wasilewski

General Biochemistry II

3 credits

(Prerequisite: Chem. 350) An introduction to the study of the metabolism of carbohydrates, lipids, amino acids and proteins, including energy transformations and the role of enzyme systems in the above processes. 3 hours lecture.

CHEM. 352 Staff

Chemical Toxicology

3 credits

(Prerequisite: Chem. 233) The nature, mode of action and methods of counteracting substances which have an adverse effect on biological systems, especially human. Medical, industrial, and environmental forensic aspects will be discussed. 3 hours lecture

CHEM. 360 Drs. Baumann, Hart

Biophysical Chemistry I

3 credits

(Prerequisite: Chemistry 232-233) An introduction to the application of physical-chemical principles to biological problems. This involves aqueous solutions, colloidal chemistry, thermodynamics, electro-chemistry, chemical kinetics and nuclear chemistry. 3 hours lecture

CHEM. 361 Drs. Baumann, Hart

Biophysical Chemistry II

3 Credits

(Prerequisite Chem. 360) A continuation of Biophysical Chemistry I involving a study of atomic and molecular structure, spectroscopy, photo-chemistry, and surface chemistry with applications to biological and biochemical phenomena. 3 hours lecture

CHEM. 360L-361L Staff

Biophysical Chemistry Laboratory

3 Credits

(Lecture is required as pre- or corequisite; Chem. 360L is prerequisite for Chem. 361L) Experiments involve applications of physical-chemical techniques to biological problems. 3 hours laboratory each semester.

CHEM. 362-363 Drs. Baumann, Hart

Physical Chemistry I - II

6 credits

(Prerequisites: Chem. 113, Math 222) A study of the physical-chemical properties of matter and the dynamics of chemical reactions. 3 hours lecture each semester

CHEM. 362L-363L Staff

Physical Chemistry Laboratory

3 credits

(Lecture is pre- or corequisite; Chem. 362L is prerequisite for Chem. 363L) Experiments demonstrate physical-chemical properties of matter and reactions. 3 hours laboratory each semester.

CHEM 370 Drs. Vinson, Sherman

Instrumental Analysis

2 credits

(Prerequisite: Chem. 360 or 362) Instrumental methods of analysis consisting of theory and application of such instrumental techniques as spectroscopy, polarography, and instrumental titrimetry. 2 hours lecture.

CHEM 370L Staff

Instrumental Analysis Laboratory

3 credits

(Lecture is required as pre- or corequisite) Experiments involve application of modern chemical instrumentation and techniques to quantitative analysis. 6 hours laboratory

CHEM 390 Dr. Cann

Chemical Literature and Writing

1 credit

A study of the published source material of chemical science and industry. The course includes practical instruction in library technique and in the written reporting of results. 1 hour lecture

CHEM. 391 Staff

Seminar 1 credit

Current topics in chemistry, biochemistry, and industrial chemistry are prepared and presented by the students.

CHEM.440 Dr. Marx

Advanced Inorganic Chemistry

3 credits

(Prerequisites:Chem. 362-363 or 360-361) Theoretical concepts and their application to the reactions and structure of inorganic compounds. Coordination chemistry and related topics, physical methods and reaction mechanisms. 3 hours lecture

CHEM.440L Staff

Advanced Inorganic Chemistry Laboratory

3 credits

(Lecture is required as pre- or corequisite) Laboratory methods involving synthesis and characterization of inorganic compounds are developed. 3 hours laboratory

CHEM. 450 Drs. Dreisbach, Wasilewski

Biochemistry I

3 credits

(Pre or corequisites:Chem. 233 and 360 or 362) Structure-function relationships with emphasis on the organic and biophysical characteristics of proteins, lipids and carbohydrates are described. Enzyme mechanisms and kinetics and the thermodynamic basis of intermediary metabolism are major themes. 3 hours lecture. Chem. 450L Lab required of biochemistry majors

CHEM. 450L Staff

Biochemistry Laboratory

3 credits

(Lecture is required as pre- or corequisite) Experiments involve techniques used in characterization of biopolymers and study of enzyme kinetics

CHEM. 451 Drs. Dreisbach, Wasilewski 3 credits

(Prerequisite: Chem. 450) The discussion of intermediary metabolism is continued from Chem 450 with emphasis on lipid protein and nucleic acid metabolism. Chemical aspects of molecular biology, including DNA replication, gene regulation and protein biosynthesis are included. 3 hours lecture

CHEM. 452 Drs. Dreisbach, Wasilewski Scredits

A course in the chemical nature of enzymes with relation to mechanism of enzyme action and kinetics, purification and identification of enzymes and isoenzymes, biochemical and physiological aspects of enzymes in living systems. 3 hours lecture

CHEM. 460 Drs. Baumann, Hart

Physical Chemistry III

3 credits

(Prerequisite: Chem. 363) Quantum mechanics and quantum chemistry, including classical problems, perturbational theory, variational theory and specific applications of molecular orbital theory to organic molecules and spectroscopic applications

CHEM. 464 Drs. Hart, Narsavage

Polymer Chemistry

3 credits

(Co-requisites: Chem. 330; Chem. 361 or 363) Survey of preparative methods for polymers; characterization of polymers using physico-chemical methods, spectroscopy, and thermal analysis; structure-property relationships; and applications of polymers. 3 hours lecture

CHEM. 464L Drs. Hart, Narsavage

Polymer Chemistry Laboratory

1.5 credits

(Pre - or Co-requisite: Chem. 330; Chem. 464) Laboratory experiments investigate synthesis and characterization methods for polymers, structure-property effects, and thermal analysis of polymers. 3 hours laboratory.

CHEM. 493-494 Staff

Undergraduate Research

3 credits

(Prerequisite: Chem. 233, 360 or 362, 390) Individual study and research in connection with a specific chemistry or biochemistry problem. Results must be written as a thesis and defended before the department. 1.5 credits each semester

NSCI 103 Dr. Vinson

The Ascent of Man

3 credits

(GE Area I)Science and Technology from the ancient Greeks to the present will be discussed from the personal viewpoint of the scientists and inventors. Lectures will be supplemented by films, demonstrations, and field trips. 3 hours lecture

COMMUNICATION

DR. SADOWSKI, Chairperson

The Department of Communication embraces the fields of broadcasting (radio and television), cable, film, journalism, advertising, public relations, and speech. Although the media are interrelated, students may concentrate in one of these fields. Some students, however, will seek a mixture or subspecialty which combines study in several Communication areas. The Department will adapt each student's curriculum to his or her goals, and for this reason individual student advising by the Communication faculty is a high priority

Students who major in Communication become knowledgeable about the subject matter from both humanistic and scientific perspectives. They also have several opportunities to acquire on-the-job experiences through departmental internships, as well as individualized study available through faculty directed projects and theses. A Communication degree program prepares students for professional careers and advanced studies. In addition, courses are designed to serve students in other departments of the University by developing their oral and written communication skills

A student wishing to earn a B.A. degree in Communication must saticwqctorily complete a minimum of 36 semester hours from the Department of Communication course offerings. Included among these 36 hours are six core courses which are required for all Communication majors

DEGREE OFFERINGS AND REQUIREMENTS

A minimum of 36 hours in Communication subjects, including the following six required core courses:

Comm	110	Human Communication
Comm	120	Mass Communication
Comm	210	Logical and Rhetorical Analysis
Comm	220	Responsibility in Communication
Comm	310	Mass Communication Law
Comm	410	Communication Theory and Research

Electives may be selected from the following courses without necessarily concentrating in one area:

Advertising/Public Relations

Comm	225	Advertising
Comm	226	Writing for Public Relations
Comm	227	Public Relations
Comm	312	Organizational Communication
Comm	325	Advertising Copywriting
Comm	327	Public Relations Cases
Comm	380	Advertising Practicum

Broadcasting/Film

Comm	232	Film History
Comm	331	Mass Media Management
Comm	332	Documentary Film
Comm	334	Broadcast Programming
Comm	425	Cable Television
Comm	426	International Broadcasting
Comm	427	International Film
Comm	432	Film Theory and Criticism
Comm	433	Television Criticism

Communication Studies

Comm	211	Argumentation and Debate
Comm	214	Small Group Communication
Comm	231	Communication and Socialization
0	044	Delitical Communication

Comm 311 Political Communication

CHIVEROITT	or ooma	· · · · · ·			
Com	m 313 m 326 m 411	Nonverbal Comm Political Advertisin Persuasion and F	ng		
Com Com Com Com	m 223 m 224 m 323 m 324 m 328 m 329	Radio Journalism Newswriting Television Journa Advanced Newsw News Editing Graphics	alism		
Com Com Com Com	duction m 221 m 222 m 321 m 322 m 422 m 480	Radio Production Television Production Advanced Radio Advanced Televis Educational Television Practic	ction Production sion Production vision		
COMMUNICA	ATION				
Dept. and No	o. Credits		Descriptive Title of C	Course	
	Credits		FRESHMAN	FALL	SPRING
MAJOR MAJOR COGNATE GE AREA IV GE AREA V	Humanit	20 7 ties	Human Communication Mass Communication Composition Electives Introduction to Philosophy	3 3 3 3 3	6
GE AREA V			Theology I-II	3	3 3
GE AREA III PHYS EDUC		00	Public Speaking* Phys. Educ	1	1
			,	16	16
MAJOR	Comm.	210	SOPHOMORE Logical & Rhetorical Analys	sis 3	
MAJOR	Comm.	 •	Responsibility in Communic		3
MAJOR GE AREA I	Nat.Sci.	Electives /Quant.	Comm. Electives Elective	3	3 3
GE AREA II	Soc./Bel		Electives	3	3
GE AREA IV			Elective	3	
GE AREA V GE AREA V			Ethics Elective	3	2
PHYS EDUC		(3	Phys. Educ	1	3 1
11110 2200	1 11.Eu.		1 11yo. 2 ado	16	16
MAJOR	Comm	210	JUNIOR Mass Communication Low	2	
MAJOR MAJOR	Comm.	STU Electives	Comm. Electives	3 3	3
COGNATE	Electives		Electives	6	3
GE AREA I	Nat. Sci	./Quant.	Electives	3	3
GE AREA IV	Humanit	ties	Electives	3	3

SENIOR

Elective

3 15

18

MAJOR	Comm. 410	Comm. Theory & Research	3	
MAJOR	Comm. Electives	Comm. Electives	3	3
COGNATE	Electives	Electives	6	6
GE FREE	Electives	Electives	3	6
			15	15

GE AREA V Phil.-T/RS

TOTAL: 127 credits

MINOR. A student wishing to minor in Communication must satisfactorily complete 18 hours to be selected with the approval of the Department Chair. Nine of these hours must come from the following three options:

1)	either or	Comm 110 Comm 120	Human Communication Mass Communication
2)	either or	Comm 210 Comm 220	Logical and Rhetorical Analysis Responsibility in Communication
3)	either or	Comm 310 Comm 410	Mass Communication Law Communication Theory and Research

COMM. 100 Staff
Public Speaking 3 credits

This is a performance class which emphasizes the theory, composition, delivery, and criticism of speeches. Successful completion of COMM100 (with a grade of C or better) fulfills the speech skills requirement of the University. (GEArea III)

COMM. 110 Staff

Human Communication

3 credits

An investigation and analysis of the process and nature of human communication and its intrapersonal and interpersonal attributes

COMM. 120 Staff

Mass Communication

3 credits

Historical survey of the nature, scope, and function of the print and electronic media in the United States. Economics, programming, and public control are some of the topics covered

COMM. 210 Staff

Logical and Rhetorical Analysis

3 credits

A study of the principlesof logic and persuasion, analysis of fallacies, and critical examination of the principles of structure in written and oral communication. Practice in briefs and abstracts with an emphasis on precision and clarity. (GE Area III)

COMM. 211 Staff

Argumentation and Debate

3 credits

This course concentrates on the techniques of argumentation, persuasion, debate, and forensics. Focuses heavily on research, case construction, and formal analysis. (GE Area III)

COMM. 214 Staff

Small Group Communication

3 credits

An examination of research, techniques, and principles of small group communication. Topics include problem-solving, decision-making, conflict resolution, leadership theories, interaction strategies, and participant roles. (GE Area III)

COMM. 216 Staff

Psychology of Communication

3 credits

A study of what is specifically human in human communication by exploring those communication systems which are essential ingredients of human nature. An individualized exploration of these components describe elements which help or hinder one's progress in the realization of the human potential.

COMM. 220 Staff

Responsibility in Communication

3 credits

(Prerequisites: Comm. 110 & Comm. 120) This course will consider the responsibilities of those in control of the mass media and the publics which are served. Different faculty may approach this course from various ethical-humanistic perspectives

^{*} If student is exempted, no credits are required in Area III; 3 credits are added to Free Area

COMM. 221 Staff

Radio Production 3 credits

An examination of the dynamic industry roles of the radio produce director. Areas to be studied include production theory and techniques which apply to station and program promotions, advertising, news, and music formats. (GE Area III)

COMM. 222 Staff

Television Production

3 credits

Designed to provide both theoretical background and practical application of television production in and outside the studio. Various format types, production techniques, and artistic styles are studied. Opportunity for producing and directing television programs. (GE Area III)

COMM. 223 Staff

Radio Journalism

3 credits

(Prerequisite: Comm. 221 or Comm. 224 or Comm. 328) With a focus on gathering and preparing news for broadcast (concentrating especially on interviewing techniques), this class will investigate various news formats and styles. At the mid-semester point, the class will begin operating as a news team. (GE Area III)

COMM. 224 Staff

Newswriting 3 credits

Evaluating news, reporting and writing stories. Newsroom organization. Style and usage. Interviewing, feature writing. Students work at Macintosh computer terminals. Typing ability needed. (GE Area III)

COMM. 225 Staff

Advertising 3 credits

This course explores advertising as an institution in society, utilizing research, media planning, and creative strategies. Students will participate in the formulation of an advertising campaign plan for local businesses.

COMM. 226 Staff Writing for Public Relations 3 credits

The study of the kinds of written communication used in the practice of public relations. This is a writing-intensive course that examines both print and broadcast media. Students work at terminals for written assignments.

COMM. 227 Staff

Public Relations 3 credits

This course introduces the principles, practices, and theory of public relations as communication management. Strategies that create public images for organizations and sustain cooperative relationships with their various publics will be examined

COMM. 231 Staff

Communication and Socialization

3 credits

Study of the interactive impact of mass media upon society and society upon mass media. Topics include children and television, media violence, political campaigns, diffusion of innovations, and social learning.

COMM. 232 Staff

Film History 3 credits

This course will trace the evolution of filmmaking from its earliest experimental stages to the modern feature film of today. The course will concentrate on the American film industry, its audience impact as a mass medium, and the genres of films which have evolves over the years. Selected screenings will reveal the transitions and refinements which characterize the medium of film. (GEArea III or IV).

COMM. 280 Staff
Advanced Public Speaking 3 credits

(Prerequisite: Comm. 100) Advanced principles and practices of speech construction, audience analysis, criticism, and delivery styles

COMM. 310 Staff

Mass Communication Law

3 credits

(Prerequisite: Comm. 110, 120, 210 & 220; Juniors and Seniors only) Analysis and examination of statutory laws, congressional legislation, and federal rules and regulations governing the mass media in the United States. Focus on the First Amendment, libel and slander, privacy, copyright, free press/fair trial, obscenity, advertising, antitrust and monopoly, taxation, and licensing

COMM. 311 Staff

Political Communication

3 credits

The study of rhetorical strategies used by the modern politician. Examination of American political rhetoric as well as rhetorical styles operative in foreign policy activities

COMM. 312 Staff

Organizational Communication

3 credits

The study of communication behaviors, patterns, and strategies in organizations. Topics include power and politics, organizational cultures, human resources, conflict management, and negotiation. Historical and contemporary theories of organizing are examined and critiqued from a communication perspective.

COMM, 313 Staff

Nonverbal Communication

3 credits

A study of the nonverbal aspects of human interaction. Topics include impression management, social influence, form and function in design, proxemics, kinesics, and the symbolic environment. (GEArea III)

COMM. 314 Staff

Legal Communication

3 credits

An examination of specific skills needed to promote effective and meaningful communication by the legal professional and the interface with clients, juries, judges, and the non-legal public

COMM. 315 Staff

Health Communication

3 credits

An examination of specific skills needed to promote effective and meaningful communication by the medical professional and the interface with patients, doctors, hospital administrators, and the non-medical public.

COMM. 321 Staff

Advanced Radio Production

3 credits

(Prerequisite: Comm. 221) Building upon the foundation acquired in Comm. 221, students generate specialized projects of their own design. Then, working with the instructor and professionals from the radio industry, students produce and direct complete programs for broadcast

COMM. 322 Staff

Advanced Television Production

3 credits

(Prerequisite: Comm. 222) Building upon the foundation acquired in COMM. 222, students pursue specialized projects in producing and directing programs for broadcast or cable distribution. (GEArea III)

COMM. 323 Staff

Television Journalism

3 credits

(Prerequisite: Comm. 224 or Comm. 328) Broadcast journalism skills are refined through classroom and outside assignments. Production techniques, including tape editing, are explored. Television news formats are produced. (GEArea III)

COMM. 324 Staff

Advanced Newswriting

3 credits

(Prerequisite: Comm. 224) Intensive training and practice in techniques of reporting and writing news stories and in covering public affairs. Familiarity with journalistic basics, style, and computer terminal operations required.

COMM. 325 Advertising Copywriting Staff

3 credits

An advanced seminar in which students develop two separate creative campaign strategies for hypothetical clients of their own choosing. For these large-budget accounts, students must create copy for newspapers, magazines, broadcast, and direct mail, all with a consistent campaign theme

COMM. 326 Staff

Political Advertising

3 credits

Critical examination of rhetorical strategies used in twentieth century political campaigning. Case studies and student projects focus on the special uses of broadcast and print media in political advertising.

COMM. 327 Staff

Public Relations Cases

3 credits

(Prerequisite: Comm. 227) This course places the student in a managerial, decision-making role in planning and executing public relations programs. A case-method approach is the predominant mode of instruction. Final project requires the development of a public communication campaign

COMM. 328 Staff

News Editing 3 credits

(Prerequisite: Comm. 224) Preparing copy for publication. Correcting, improving and trimming stories. Headline writing, layout, graphics. Wire services, printing process. Students work at Macintosh computer terminals.

COMM. 329 Staff

Graphics 3 credits

(Prerequisite: Comm. 224) Visual aspects of print media. Typography, printing presses, handling photos and other art layout and design, introduction to desktop publishing. Familiarity with journalism basics, style, and computer terminal operations required

COMM. 331 Staff

Mass Media Management

3 credits

(Prerequisite: Comm. 120 or Comm. 220) The multi-faceted roles of managers in the various communication industries are examined. Special attention is given to technical, conceptual and humanistic concerns. Specific areas of study include: Management of self and personal relations, unions and contracts, community relations, audience analysis and measurement

COMM. 332 Staff

Documentary Film

3 credits

This course traces the growth, development and influence of American and foreign nonfiction films, particularly their various functions as propaganda, public service and promotion, education, entertainment, and art.

COMM. 334 Staff

Broadcast Programming

3 credits

Study of programming strategies, practices, and operations of commercial radio and television stations. Topics include audience research, program acquisitions, scheduling, formats, syndication, promotion, and network-affiliate relationships. (GE Area III)

COMM. 380 Staff

Advertising Practicum

3 credits

(Prerequisite: Comm. 225) Building upon the foundation acquired in Comm. 225, this course provides students with real-life experiences associated with operating a full-service advertising agency. The agency provides clients with a complete array of services ranging from campaign creation to implementation and evaluation

COMM. 410 Staff

Communication Theory and Research

3 credits

(Prerequisites: Comm. 110, 120, 210, and 220; Seniors only) Critical study and analysis of various theoretical models of communication, behavioral science theories, and communication research paradigms. Topics include information theory, scientific method, balance and congruity theories, cognitive dissonance, perception, attitude change, semantic differential, group dynamics, persuasion, and statistical methods

COMM. 411 Staff

Persuasion and Propaganda

3 credits

An in-depth examination of the theoretical foundations and practical applications of those factors which influence the persuasibility of target audiences. Topics include attitudes, beliefs, values, behaviors, appeals, and reference groups

COMM. 416 Staff

Philosophy of Communication

3 credits

A general study of the forces and dynamics which articulate the phenomenon of human communication by an examination of the human capacity to comprehend and realize fulfillment or wholeness through communication

COMM. 422 Staff

Educational Television

3 credits

Instructional uses of the television medium by public television stations, schools, closed-circuit and cable systems. Types of educational programs are evaluated. Students work on preparing projects which may reflect their own pedagogical interests. (GE Area III)

COMM. 425 Staff

Cable Television 3 credits

A study of cable television and its development and current place in the telecommunications industry. Topics include programming strategies, formats, multiple system operators, independents, syndication, sales, satellite services, pay-per-view, audience ratings, management, and the franchising process. Students develop their own research proposals for establishing new cable channels, networks, and services

COMM. 426 Staff

International Broadcasting

3 credits

3 credits

Comparative analysis of national and international media systems throughout the world. Emphasis on their origin, development, and operation

COMM. 427 Staff

International Film

An investigation of the major contributions and movements of various nations in the development and evolution of film as a multi-national and global industry

COMM. 432 Staff

Film Theory and Criticism

3 credits

Critical examination of the major theoretical and analytical explanations of film's effectiveness as an artistic form of communication. The work of classical, contemporary and experimental film scholars will be studied, and selected films depicting their observations will be screened. Film analysis and criticism projects will be designed by students. (GE Area III or IV)

COMM. 433 Staff

Television Criticism

3 credits

Analysis of radio and television programs and promotional strategies, including formats, scripts, talent, commercials, public service announcements, positioning, ratings, and network-affiliate relationships.

COMM. 480 Staff

Television Practicum

3 credits

Communication seniors undertake significantareas of study resulting in a broadcast-quality videotape or audiotape suitable for airing by commercial or non-commercial television stations, radio stations, or cable systems.

COMM. 481 Staff

Internship 3 credits

(Prerequisites: Junior or Senior standing, plus appropriate course work, and faculty approval.) Highly recommended for every major, although not required, this on-the-job experience is guided by practitioners in the communication field and supervised individually by a faculty member in consultation with the student's advisor and the department chair. An additional 3 credits can be earned--for a maximum of 6 credits--by petition to the Communication Department. (Internship credits cannot be used to fulfill requirements in the COMM. major, minor, or cognate; they can be used in the Free Area.) See Internship Director.

COMM. 482 Staff

Directed Independent Study

3 credits

(Prerequisite: Senior Standing) In consultation with the student's advisor and department chair, the communication senior undertakes a significant area of study resulting in a major research paper. Students select a communication professor whom they wish to direct the study. Usually taken to augment an area of the student's interest not substantially covered in available departmental courses.

COMM. 484 Staff

Special Topics

3 credits

In-depth departmental seminars on selected communication topics meeting the needs and interests of students. Topics vary from semester to semester

COMM. 499 Staff

Senior Thesis 3 credits

(Prerequisites: Comm. 310 & Comm. 410) An optional research-based written project in which the serious communication senior, in consultation with the student's advisor and department chair, selects an issue or problem for scholarly study, undertakessignificant and meaningful research, and produces a major paper of publishable quality. Students select a communication professor whom they wish to direct their thesis. Strongly recommended for students who plan to attend graduate school.

COMPUTING SCIENCES

PROF. PLISHKA, Chairperson

The University of Scranton's bachelor of science program in computer science dates from 1970-one of the oldest in the Commonwealth of Pennsylvania. The Computer Science Program is accredited by the Computer Science Accreditation Commission (CSAC) of the Computing Sciences Accreditation Board (CSAB), a specialized body recognized by the Council on Accreditation (COPA) and the U.S. Department of Education. The Computer Science Major provides an integrated introduction to Software Engineering along with the Mathematical skills needed in Computer Science. The program culminates in the senior year with the Computer Projects course. Research and internship opportunities are available

COMPUTER	SCIENCE Dept. and No. Credits	Descriptive Title of Course			
		FRESHMAN FA	\LL	SPRING	
MAJOR	CMPS 134-144	Computer Sci I-II	3	4	
COGNATE	Math 142-114	Discrete Structures-Analysis I	4	4	
GE AREA III		Public Speaking-Composition	3	3	
GE AREA IV	3	Electives	3	3	
GE AREA V	Phil. 120	Intro. To Philosophy	3	3	
GE AREA V		Theology I	3	3	
PHYS EDUC		Physical Education	1	1	
FIII 3 LDGC	FII. Ed.	Filysical Education	17	18	
			17	10	
		SOPHOMORE			
MAJOR	CMPS 240-250	Data Structures - Mach Org	3	3	
MAJOR	CMPS 240-250 CMPS 260	Theor. Foundations CMPS	3	3	
COGNATE	Math 221	Analysis II	4	3	
COGNATE	Phys. 140-141	Elements of Physics I-II	4	4	
GE AREA III		Tech & Business Writing	3	4	
GE AREA IV		Electives	3	3	
			3	3	
GE AREA V	T/RS 122	Theology II	1	ა 1	
PHYS EDUC	Pn. Eu.	Physical Ed.	18	17	
-			10	17	
		JUNIOR			
MAJOR	CMPS 352-344	Operating Sys-Prog Lang	3	3	
MAJOR	CMPS 340	File Processing	4		
MAJOR	CMPS 350	Computer Architecture	3		
MAJOR	CMPS	Electives		6	
COGNATE	Math 312-314	Probability-Statistics	3	3	
COGNATE	EE 243L	Digital Systems Design Lab	2		
GE AREA II	Eco. 153-154	Principles of MicroMacro. Eco	o. 3	3	
GE AREA V	Phil. 210	Ethics		3	
		19	17		
MALOD	OMBO 400	SENIOR	•		
MAJOR	CMPS 490	Computer Projects	3	_	
MAJOR	CMPS	Electives *	•	6	
COGNATE	Electives	Electives * *	3	3	
GE AREA IV		Electives	3	3	
GE AREA II	Soc/Behavior	Psych. 110-Elective	3	3	
GE AREA V	PhilT/RS	T/RS Elective/Phil. 214	3	3	

18

15

TOTAL: 139 credits

- * The four electives in the major must be chosen from CMPS 341, 354, 360, 362, 364, 370, 372, 374, 384, 393, 440, 480, and 481.
- * * COGNATE Senior year electives must include one science course for science majors and either a science course at the 300 level or above, or a mathematics major course at the 200 level or above.

MINOR. The Minor in Computer Science must include CMPS 134,144, and 240 and any three of the courses

CMPS 250, 260, 344, 350, 352, 354, 360, 364, 370, 372, 374, 384, or 440.

COMPUTER INFORMATION SYSTEMS

This program investigates the analysis, design, development, implementation, evaluation and effective use of computer information systems in organizations. Since business and government are principal users of computers, Computer Information Systems majors will select cognates from the School of Management or from the Public Administration Program. This major is enhanced by the Computer Systems Intern Program in Pennsylvania State Government. Students are encouraged to participate in this or another internship

Dept. and No).	Descriptive Title of Course		
	Credits			
MAJOD	OMBO 404 444		ALL	SPRING
MAJOR	CMPS 134-144	Computer Science I-II	3	4
COGNATE GE AREA III	Math 142-114 Comm 100 - Engl I07	Discrete Structures-Analysis Public Speaking - Compositio		4 3
GE AREA III		Electives	3	3
GE AREA V	Phil. 120	Introduction to Philosophy	3	3
GE AREA V	T/RS 121	Theology I	O	3
PHYS EDUC		Physical Education	1	1
		,	17	18
		SOPHOMORE		
MAJOR	CMPS 240-250	Data Structures-Mach Org	3	3
COGNATE	Acc. 253-254	Financial Acc./		
00011475	14 d 004	Managerial Acc.	3	3
COGNATE	Math 204	Special Topics of Statistics	0	3
GE AREA II	Eco. 153-154	Principles of MicroMacro. Ed	00. 3	3
GE AREA III	or Pol. Sci. 110-111* Wrtg. 211	or Pub. Admin Pub. Policy Tech & Business Writing	2	
GE AREA III		Electives	3 3	3
PHYS EDUC		Physical Education	1	1
11110 2500	7 H. 23.	Tryclear Education	16	16
		JUNIOR		
MAJOR	CMPS 330-331	Information Systems		
	01470 040 044	Analysis and Design	3	3
MAJOR	CMPS 340-341	File Processing-Database	4	3
MAJOR COGNATE	CMPS 352-Elect Elective	Operating Systems-Elective Elective	3	3 3 3
GE AREA IV		Elective	3	ა ვ
GE AREA V	Phil. 210-T/RS 122	Ethics-Theology II	3	3
OL /IIIL/II	11 210 1/10 1/22		16	18
				_
		SENIOR		
MAJOR	CMPS 490	Computer Projects	3	
MAJOR	CMPS	Electives		6
COGNATE	Electives	Electives	3	3
GE AREA II	Soc/Behavioral	Electives*	3	3
GE AREA V GE FREE	Phil-T/RS Electives	Elective/Phil 211 or 214	3 3	3
GE FREE	Electives	Electives	<u>5</u> 15	<u>3</u> 18
				10

TOTAL: 134 credits

Elective courses in the Computer Information Systems major must be CMPS courses numbered 200 or higher.

* Pol Sci 110-111 should be taken if a student anticipates applying for the CSIP Internship (CMPS 480). Such students should reserve the senior year Area II electives to be taken in conjunction with the Internship. Otherwise, Psych. 110 is required

School of Management Cognates-Mgt 351 and QMS 351 are required. Select one from the following: Eco. 364 or 365, Fin 351, Mkt 351, Mgt 352, 361, 471, POM 352 or 361

Public Administration Cognates-Select three from the following: Pol Sci 210, 211, 324, 325, or 327

MINOR. The Minor in Computer Information Systems must include CMPS 134, 144, 330, and 331, and any two of CMPS 104, 240, 340, or 341.

CMPS 102

Computer Literacy

3 credits

The computer is a tool that amplifies our intellectual ability and helps in problem solving. This course includes the presentation of issues in computing that impact on our personal lives and raise important societal concerns. Laboratory exercises introduce students to important computer-based problem-solving tools including word processors, electronic spreadsheets, and statistical and graphics software. 2 hours lecture and 2 hours laboratory; lecture and lab must be taken concurrently. (GE Area I; students who earn credit for CMPS 104 may not take CMPS 102)

CMPS 104

Computing for Business and Social Sciences

3 credits

This course focuses on computer applications and issues in business and social sciences as they relate to careers, personal lives and important societal concerns. Laboratory exercises introduce students to important computer-based problem-solving tools including word processors, electronic spreadsheets, and statistical and graphics software on various computer systems from Personal Computers through networking through mainframes. 2 hours lecture and 2 hours laboratory; lecture and lab must be taken concurrently. (GE Area III; students who earn credit for CMPS 102 may not take CMPS 104)

CMPS 108

COBOL Programming

3 credits

(Prerequisite:Previous use of a computer)An introduction to ANSIstandard COBOL. Tradi-tional business applications will be emphasized. Topics include internal data representation, data editing, calculations, one-level tables, search, sort, and reporting. (GEArea III)

CMPS 134

Computer Science I

3 credits

An introduction to programming concepts and methodology using the programming language Pascal. The course emphasizes a structured programming approach. Topics included are problem analysis, modularization, top-down design, and the elements of the programming language Pascal

CMPS 144

Computer Science II

4 credits

(Prerequisite:CMPS 134 and MATH 142) A sequel to CMPS 134, continuing the development of structured programming concepts using the programming language Ada. The course emphasizes the use of data structures and modular programming

CMPS 240

Data Structures

3 credits

(Prerequisite: CMPS144) The representation and transformation of information. This course stresses the interrelation between data structure and program structure and the analysis of algorithms for efficiency.

CMPS 250

Machine Organization and Assembly Language Programming

3 credits

(Prerequisite: CMPS 144) An introduction to machine organization and architecture. Among the topics discussed will be machine organization, assembler programming, the representation of data, the assembler, input-output routines and the use of macros

CMPS 260

Theoretical Foundations of Computer Science

3 credits

(Prerequisite; CMPS 240) An introduction to the theoretical foundations of computing. This course builds on topics from discrete mathematics and data structures, Topics include computability, automata, languages, grammars, expressions, and analysis

CMPS 330

Information Systems

3 credits

(Prerequisite: CMPS 104 or CMPS 134) Introduc-tion to concepts and practices of information processing. Computerized system requirements and techniques in providing appropriate decision-making information to management

CMPS 331

Systems Analysis and Design

3 credits

(Prerequisite: CMPS 330) A study of the system development methodology and the role played by the systems analyst in developing user-accepted information systems

CMPS 340

File Processing

4 credits

(Prerequisite: CMPS 144 required, CMPS 240 recommended.) File structures concepts and file processing applications using COBOL as an implementation language. Topics include file maintenance and storage management; file searching, sorting, and merging; cosequential processing; indexing and hashing methods; indexed sequential files

CMPS 341

Database Systems

3 credits

(Prerequisite: CMPS 340 required, CMPS 240 recommended) An introduction to database management systems, DBMS, with an emphasis on relational database design and applications. The primary software used is ORACLE DBMS

CMPS 344

Programming Languages

3 credits

(Prerequisite: CMPS 352) Practical and theoretical aspects of programming languages, compilers, and interpreters.

CMPS 350

Computer Architecture

3 credits

(Prerequisite: CMPS 250) A study of the logical structure of computer system organization including a survey of logic and design with an emphasis on functional components. Topics include instruction sets, hard-wired and micro-programmed control unit designs, memory systems (caches and virtual memory), I/O systems (interrupts, DMA, and channels). Overview and examples of alternative and advanced computer architectures (pipeline, array processors, multiprocessors)

CMPS 352

Operating Systems

3 credits

(Prerequisite: CMPS 240 and CMPS 250) The analysis and design of computer systems, including operating system design, memory management, scheduling, and the implementation of multiprogramming.

CMPS 354

Data Communications and Networks

3 credits

(Prerequisite: CMPS 352) A study of data communication and networking concepts, including distributed system architectures, electronic interfaces, data transmission, data link protocols, terminal networks, computer communication, public data networks, and local area networks

CMPS 360

Analysis of Algorithms

3 credits

(Prerequisite: CMPS 260) An investigation of algorithms and computability. Classic algorithms for sorting and graph theory as well as examples from current literature are examined. Computabil-ity, decidability, completeness, do-ability are possible additional topics

CMPS 362

Numerical Analysis

3 credits

(Prerequisite: CMPS 134 and MATH 222) A survey of computer-oriented techniques for integration, differentiation, matrix computation, solution of simultaneous equations, and analysis of errors.

CMPS 364

Theory of Computation

3 credits

(Prerequisite: CMPS 260) The development of a theoretical notion of computability and its relationship to Turing computability and recursive functions; the study of the relationships between automata, formal languages, and grammars

CMPS 370

Computer Graphics

3 credits

(Prerequisite: CMPS 240) Introduction to equipment and techniques used to generate graphical representations by computer. Description and use of vector-refresh, vector-storage, and raster-scan graphics plotter and CRT pseudographics

CMPS 372

Artificial Intelligence

3 credits

(Prerequisite: CMPS 240) Problem solving using Expert Systems, heuristic programming techniques, tree speed-up techniques, and learning mechanisms

CMPS 374

Fundamentals of Software Engineering

3 credits

(Prerequisite:CMPS 240) An introduction to the concepts of Software Engineering. Stress is placed upon formal models for the design and development of high-quality software. Topics include:project planning, requirements analysis, system design, program design, program implementation, program testing, system testing, system delivery, and maintenance. A group project will be included.

CMPS 384

Special Topics

3 credits each

(Departmental permission required) Topics and prerequisites will be announced prior to preregistration.

CMPS 393

Computer Research

3 credits

(Departmental permission required) A research project carried out by a student under the direction of a faculty member in the department. The results will be prepared in a form suitable for publication. Reader fee.

CMPS 440

Compiler Design

3 credits

(Prerequisite: CMPS 344) Study of techniques and problems involved in constructing compilers. Lexical analysis, syntax analysis, semantic analysis, symbol table management, code generation, code optimization.

CMPS 480

CSIP Internship

3 credits

(Departmental permission required) A six-month job experience in computing in a Pennsylvania State Government Agency. Applications are accepted during the Fall of the students sophomore year.

CMPS 481

Computer Internship

3 credits

(Departmental permission required) An intensive job experience in computing which carries academic credit. Prior approval is required and an information booklet is available from the department. Reader fee.

CMPS 490

Computer Projects

3 credits

(Departmental permission required) In this course students prepare and present individual computer projects to be evaluated by the instructor and their fellow students. Seniors only

CRIMINAL JUSTICE

PROF. PRYLE, Chairperson

The BS Degree program in Criminal Justice has the following objectives: 1. to prepare students for careers in law enforcement at the local, state or federal levels (FBI, Departments of Defense, Treasury, Justice); 2. to prepare students for careers in the field of correction and rehabilitation: parole, prisons, juvenile delinquency, etc.; 3. to provide students with academic preparation for advanced study in law, criminology, public administration and related fields. The Criminal Justice major is administered by the Department of Sociology/Criminal Justice, which also administers the Sociology and Gerontology degree programs. An Advisory Board of Community leaders working in the field of law enforcement and criminal justice has been established to work with University officials and faculty.

Dept. and No. Credits		Descriptive Title of Course		
MAJOR	CJ 110-S/CJ 213	FRESHMAN FINTRO. to Criminal Justice	ALL	SPRING
MAJOR	CJ 110-3/CJ 213	Criminology	3	3
COGNATE GE AREA I	Soc. 110 Nat. Sci./Quant.*	Introduction to Sociology Elective	3	2
GE AREA III	Communications	Electives	3	3 3
GE AREA IV GE AREA V	Humanities Phil. 120	Electives Introduction to Philosophy	3	3 3 3 3
GE AREA V	T/RS 121	Theology I		
PHYS EDUC	Ph. Ed.	Physical Education	<u>1</u> 16	<u>1</u> 16
			10	10
MAJOR	S/CJ 210-S/CJ 212	SOPHOMORE Law and Society		
		Criminological Research	3	3
MAJOR COGNATE	S/CJ 218-220 Psych. 110	Amer. Court System-Penolog Fundamentals of Psychology		3
COGNATE	Psych. Elective	Psychology Elective		3
GE AREA III GE AREA IV	Elective Humanities	Elective Electives	3 3	3
GE AREA V	Phil. 210	Ethics		3
PHYS EDUC	Ph. Ed.	Physical Education	<u>1</u> 16	<u>1</u> 16
			. •	. •
MAJOR	CJ Elec.	JUNIOR Criminal Justice Electives	3	3
COGNATE	Pol. Sci. 130-Elec.	American Nat'l GovElective	3	3
COGNATE GE AREA I	Soc. Sci. Elec. Nat.Sci./Quant.*	Social Science Electives Electives	3 3	3 3
GE AREA IV	Humanities	Elective	3	
GE AREA V GE FREE	T/RS 122 Elective* *	Theology II Elective* *	3	3
-	21001170		<u>18</u>	15
		SENIOR		
MAJOR	CJ Elec.	Criminal Justice Electives	3	3
MAJOR COGNATE	CJ 480-481* /Elec. Soc. Sci. Elec.	Internship/Electives Social Science Elective	3 3	3
GE AREA IV	Humanities	Elective	-	3
GE AREA V	PhilT/RS	Philosophy and/or Religious Studies	3	3
GE FREE	Electives	Electives	3	<u>3</u> 15
			15	15

TOTAL: 127 credits

Department Recommendations:

* In GE Area I, the department recommends Nursing 100, Family Health, Physics 102, 103, 106; C/CJ 200, Forensic Science. In GE AREA III, CMPS 104 and Wrtg. 212, Writing for the Law, are highly recommended. If the student has not otherwise satisfied the University's proficiency requirement, Engl. 107 and Comm. 100 must be taken. In GE AREA IV, the department recommends Hist. 110-111, History of the U.S.; HPS 317-318, American Constitutional and Legal History; in GE AREA V, T/RS 326, Church and Contemporary Social Issues

** In the Free Area, the department strongly recommends Acc. 253, Financial Accounting; Acc. 254, Managerial Accounting; Mgt. 351, Principles of Management I

In the COGNATE, the department recommends Pol. Sci. 210, State and Local Government; Psych. 225, Abnormal Psychology; PSYCH. 224, Personality; Soc. 116, Community Organization; Soc. 118, Child Welfare; Soc. 231, Urban Sociology; Soc. 224, American Minority Groups; Soc. 228, Social Psychology.

MINOR. A minor in Criminal Justice will require eighteen credits. There are three required courses: Soc. 110: Introduction to Sociology; CJ 110: Introduction to Criminal Justice; and SCJ 213: Criminology. The following elective courses are strongly recommended by the department in the criminal justice sequence: S/CJ 212: Criminological Research; S/CJ 214: Juvenile Delinquency; S/CJ 210: Law and Society; and CJ 312: Criminal Law

CJ 110 Introduction to Criminal Justice

Profs. Friedrichs, Baker, Dr. Wright

3 credits

A foundation course examining problems in the study of crime and criminal justice, basic elements of criminal law and constitutional rights, and the functions of, as well as the relationship between, major components of the criminal justice system; agencies and role of law enforcement; prosecution; the judicial process, and corrections

S/CJ 210 Law and Society

Prof. Friedrichs, Atty. Cimini

3 credits

The relationship between law and society, or the interaction of legal and social variables. Examines jurisprudential and social theories of law; development of law; the role of the legal profession; legal behavior and decision-making; and law and social change

S/CJ 212 Drs. Rielly, Wright

Criminological Research

3 credits

Survey of methods and techniques for achieving interpretable results in research in the criminal justice field; research design; data collection

S/CJ 213 Drs. Rielly, Wright Criminology 3 credits

Crime as a form of deviant behavior; nature and extent of crime; past and present theories; evaluation of prevention, control and treatment programs

S/CJ 214 Drs. Rielly, Wright

Juvenile Delinquency

3 credits

Nature and extent of delinquency: competing explanatory models and theories; evaluation of prevention, control, and treatment programs

S/CJ 218 Atty. Cimini

The American Court System

3 credits

The court as a key component of the criminal justice system is examined. Philosophical, historical, comparative and typological perspectives are reviewed; the organization, structure and procedures of the court are analyzed, and roles of the major courtroom participants are explored. Court administration, planning and reform

S/CJ 220 Atty. Cimini, Drs. Wright, Rielly

Penology: The American Correctional System

3 credits

Analysis and evaluation of contemporary correctional systems; theories of punishment; discussion of recent research concerning the correctional institution and the various field services; the history of corrections in Pennsylvania.

S/CJ 221 Mr. Conlon, Dr. Wright

Probation and Parole

3 credits

Examination of community treatment in the correctional process; contemporary usage of presentence investigation, selection, supervision, release of probationers and parolees

S/CJ 224 Prof. Friedrichs

Sociology of Deviance

3 credits

Critical examination of theories and empirical studies of social deviance, focusing upon the formulation and application of deviant labels, organizations relating to deviance, and deviant behavioral patterns. Special attention given to noncriminal forms of deviance

S/CJ 225 Prof. Friedrichs

White Collar Crime

3 credits

A study of white collar crime, including corporate misdeeds, political corruption, occupational illegalities and upperworld deviance. This course will explore the causes, consequences, and criminal justice system response to white collar crime

S/CJ 227 Prof. Baker

Organized Crime Patterns

3 credits

The national and international organizational structure of organized crime will be analyzed. Primary attention will be given to comparative theories and concepts. The various methods of prosecution, investigation, and control will be discussed

CJ 230 Prof. Baker

Crime Prevention

3 credits

This course analyzes the basic theories of crime prevention and will examine current developments in criminal profiling and crime analysis. A review of crime prevention concepts utilized in the public and private sectors will focus on programs involving citizens, community and agency interrelationships.

S/CJ 232 Prof. Baker

Public Safety Administration

3 credits

An overview of the public safety field-its philosophy, disciplines and research. The course will focus on an examination of the police and governmental responses to disaster and accidents. A primary emphasis will be given to the various analytical approaches to the study of terrorism. Methods of planning, investigation and prevention will be discussed

S/CJ 234 Prof. Baker

Criminal Justice Management

3 credits

Basic principles and practices of administration and their application to law enforcement. Relationship of theoretical administrative concepts and practical police problems

CJ 237 Prof. Baker

The Investigative Process

3 credits

This course considers appropriate investigative procedures concerning major criminal investigations. An analysis of specific investigative theories and courtroom applications will be conducted through learning simulation. The homicide court problem will focus on the preservation and admission of evidence.

S/CJ 284 Staff

Special Topics in Criminal Justice

3 credits

Courses designed to meet specific needs of individual students or courses offered on a trial basis to determine the value of placing them into the regular curriculum. Prerequisite: consent of the Chairperson and the Instructor.

CJ 310 Atty. Cimini
Criminal Justice Process 3 credits

A study of the law of criminal procedure, treating investigation and police practices, preliminary proceedings, and trial, as they relate to the development and structure of the American criminal justice system and as they affect offenders

CJ 312 Atty. Cimini

Criminal Law 3 credits

A study of substantive criminal law in view of its historical foundations, purpose, functions and limits; of crime and defenses generally; and of the elements which constitute certain specific crimes under state and federal statutes

S/CJ 314 Atty. Cimini

The Bill of Rights & C.J

3 credits

From the perspective of the criminal justice professional, this course addresses key principles enunciated in the first, fourth, fifth, sixth, eighth and fourteenth amendments to the Constitution of the United States.

S/CJ 316 Atty. Cimini

Principles of Evidence

3 credits

An examination of the law of evidence as it pertains to the trial of a criminal case. A discussion of the common law, pertinent statutes, judicial opinions, and rules, e.g., The Federal Rules of Evidence, as these relate to such concepts as direct and circumstantial evidence; opinion testimony, experts and exhibits; competence, relevance and materiality; privileges, hearsay and its exceptions.

S/CJ 317 Atty. Cimini

Trial, Jury and Counsel

3 credits

A consideration of the rights guaranteed by the Sixth Amendment to the Constitution of the United States, surveying constitutional provisions, statutes, court rules and cases concerning the fight of a criminal defendant to a speedy and public trial, to trial by jury, and to the assistance of counsel

S/CJ 318 Atty. Cimini

Civil Liability

3 credits

An examination of the law enforcement officer or employee as a defendant in a civil suit arising from the scope of his employment. Liability based upon rights statutes is examined, along with a consideration of the typical defenses

S/CJ 324 Prof. Friedrichs

Victimology

3 credits

An examination of the causes and consequences of crime victimization. The recent emergence of the study of the victim, the types and circumstances of victimization, and the nature of the criminal justice system"s response to crime victims are considered, along with the ethical and practical dimensions of crime victimization.

CJ 382-383 Staff

Independent Study in Criminal Justice

3 credits

Directed projects and surveys in criminal justice, law enforcement, and corrections designed to give the student academic flexibility. Prerequisite: consent of the Chairperson and the Instructor

CJ 480-481 Prof. Baker, Dr. Rielly

Internship Experience

3 credits

Supervised experimental learning in an approved criminal justice setting taken preferably in junior and senior year. Prerequisite: permission of Instructor

ECONOMICS

DR. SATYAJIT GHOSH, Chairperson

The Arts and Sciences major in Economics offers students a strong general liberal arts background and at the same time a thorough grounding in the most quantitative of the social sciences. Its major requirements parallel those of the school of Management Economics major (see p. 150), while its cognate provides background in the social sciences. This major is especially appropriate for students intending graduate studies in Economics, or careers in law or government service. Course descriptions for major courses begin on p. 151.

ECONOMICS Dept. and No. Descriptive Title of Course				
	Credits	Descriptive Title of	Jourse	
		FRESHMAN	FALL	SPRING
MAJOR	Eco. 153, 154	Princ. of MicroMacro. Eco		3
GE I	Math Option	Math. Option**	3/4	3/4
GE III	Communications	Electives:	^	2
GE IV	Humanities	Comm 100, Engl 107 * Electives: Hist 110, 111*	3 3	3 3
GE V	Phil. 120-T/RS 121	Intro. to Philosophy	3	3
02 1	120 1/110 121	Theology I	3	3
PHYS ED	Ph. Ed.	Physical Education	1	1
		•	16/17	16/17
MAJOD	F 201 202	SOPHOMORE	^	2
MAJOR MAJOR	Eco. 361, 362 QMS 253	Intermed. Economics I, II Statistics for Economics	3	3 3
COGNATE	Acc. 253	Financial Accounting	3	3
GE III	CMPS 104	Computg. for Bus.	J	
		& Soc. Sci.	3	
GE IV	Humanities	Elective, Electives	3	6
GE V	Phil. 210-T/RS 122	Ethics Theology II	3	3
PHYS ED	Ph. Ed.	Physical Education	<u>1</u> 16	<u>1</u> 16
			10	16
		JUNIOR		
MAJOR	Eco. 460, Eco. 351	Monetary and Fin. Eco.,		
		Environment of Intl. Bus.	3	3
MAJOR	Eco. Elective	Electives	3	3
COGNATE	Electives	Electives * * *	6	6
GE I GE IV	Nat. Sci. Humanities	Elective Elective	3	3
COGNATE	FIN 351	Intro. to Finance	3	3
000111112	1 00 !	<u>-</u>	15	18
		SENIOR		_
MAJOR	Eco. Elective	Elective Seminar	2	3 3
MAJOR COGNATE	Eco. El., Eco. Sem Electives	Elective, Seminar Electives	3 4	3
GE V	Phil, T/RS	Electives	3	3
GE FREE	Free Area	Electives	3	<u>6</u>
			15	15

TOTAL: 127/129 credits

Recommended by the department

- ** See the math options on page 144. The student majoring in economics will take the first two courses in one of these options.
- *** Economic majors may apply up to six cognate credits toward a Math minor. Students taking the Math majors option are strongly urged to complete the calculus sequence by taking Math 222, particularly if they plan on pursuing graduate studies

Economic majors registered in the College of Arts and Sciences will apply their elective cognate credits to the following areas (exceptions require the permission of the CAS Dean): Political Science, Psychology, Public Administration, Sociology. Nine of credits must be in the same field. Care must be taken to observe prerequisites

ELECTRONICS ENGINEERING

DR. CONNOLLY, Director

Dept and No.

Engineering is the profession in which a knowledge of the mathematical and natural sciences gained by study, experience, and practice is applied with judgment to develop ways to utilize, economically, the materials and forces of nature for the benefit of mankind. The Electronics Engineering major of the Department of Physics'EE prepares the student for the analysis and design of electronic systems and devices whose principal functions are the shaping and control of information.

Descriptive Title of Course

Dept. and No).	Descriptive Title of Course			
	Credits				
		FRESHMAN	FALL	SPRING	
COGNATE	Phys. 140-141	Elements of Physics I-II	4	4	
COGNATE	Math 114-221	Analysis I-II	4	4	
GE AREA M	CMPS 134	Computer Science I	3		
GE AREA III	Communications	Electives	3	3	
GE AREA IV	Humanities	Elective		3	
GE AREA V	Phil. 120	Introduction to Philosophy	3		
GE AREA V	T/RS 121	Theology I		3	
PHYS EDUC	Ph. Ed.	Physical Education		1	
			8	17	
		00011011005			
144 IOD	FF 0.40	SOPHOMORE	•		
MAJOR	EE 240	Intro. Digital Circuits	3		
MAJOR	EE 241	Circuit Analysis		4	
MAJOR	EE 243L	Digital System Design Lab	2	0	
MAJOR	Engr. 250-252	Statics-Solid State Materials		3	
MAJOR	Engr. 253	Intro. to C.A.D.	1	4	
MAJOR	Engr. 254	3-D C.A.D.	4	1	
COGNATE	Phys. 270	Modern Physics	4		
COGNATE	Math 222-341	Analysis III-	4		
	COCNATE	Differential Equations	. L. Caral Obara	4	
OF ADEAN	COGNATE	Chem. 112General and Ana	alytical Chen	n 3	
GE AREA V	T/RS 122	Theology II	18	<u>3</u> 17	
			10	17	
		JUNIOR			
MAJOR	EE 447-448	Electromagnetics I -II	3	4	
MAJOR	EE 343-344	Electronic Circuits I-II	5	3	
MAJOR	EE 346	Digital Signal Processing	_	3	
COGNATE	Engr. 350	Applied and			
	g	Engineering Math.	3		
COGNATE	Elective	Technical Elective**		3	
GE AREA II	Soc./Behavioral	Electives***	6	3	
GEAREAIV	Humanities	Elective		3	
			<u>17</u>	19	
		SENIOR			
MAJOR	EE 449	Computer Interfacing	5		
MAJOR	EE 450	Control Systems	3		
MAJOR	EE 451	Communications Systems	_	3	
MAJOR	EE 452-453	VLSI I-II	2	2	
MAJOR	EE 454	Senior Design Project	-	3 3	
GE AREA IV	Humanities	Electives	3	3	
GE AREA V	Phil. 210-T/RS	Ethics-Elective	3	3	
			16	14	

TOTAL: 136 credits

- * The department recommends Engl. 107 and Comm. 100
- ** An Advanced technical course approved by the department
- *** The department recommends Eco. 210

ELECTRONICS-BUSINESS

The state of the business world today is such that a major portion of its administrative effort must be geared to the supervision of persons engaged in complex technological processes often involving applications of electronics. As a consequence, the ideal administrator is now one who is conversant with both good business practice and technological know-how. The Electronics-Business major provides a student with a program of carefully selected business and economics courses coupled with a series of coordinated physics and electronics engineering courses so as to provide preparation for an administrative career in an electronically oriented business enterprise. The program also provides sufficient preparation for further studies leading to the Maste's in Business Administration.

Dept. and No.		Descriptive Title of Course		
	Credits	FRESHMAN F	ALL	SPRING
COGNATE COGNATE	Phys. 140-141 Math 103-114 or	Elements of Physics I-II Pre-Calculus MathAnalysis I	4	4
GE AREA V	Math 114-221 Eco. 153-154 Communications CMPS 134 Phil. 120	or Analysis I-II Principles of MicroMacro. Ed Electives Computer Science 1 Introduction to Philosophy	3 3 3	4 3 3
PHYS EDUC	Pn. Ed.	Physical Education	1 18	<u>1</u> 18
MAJOR MAJOR	EE 240 EE 241	SOPHOMORE Intro. to Digital Circuits Circuit Analysis	3	4
MAJOR MAJOR MAJOR	Engr. 252 Engr. 253 Engr. 254	Solid State Material Science Intro. to C.A.D. 3-D C.A.D.	1	3
MAJOR COGNATE	Acc. 253-254 Math 221-222 or Math 222-341	Financial, Managerial Acct. Analysis II-III Analysis II	3 4	3 4
COGNATE GE AREA IV GE AREA V	Phys. 270 Humanities T/RS 121	Differential Equations Modern Physics Elective Theology I	4 3	3
PHYS EDUC		Physical Education	<u>1</u> 19	<u>1</u> 1
MAJOR MAJOR	EE 343-344 QMS 251-252	JUNIOR Electronic Circuits I-II Statistics for Business I-II	5 3	3 3
GE AREA IV GE AREA V GE AREA V	Phil. 210 T/RS 122	Elective Electives Ethics Theology II	3 3 3	3 3
GE FREE	Elective	Elective	<u>17</u>	<u>3</u> 15
MAJOR MAJOR	Mgt. 351-Mkt. 351 Fin. 351-POM 352	SENIOR Principles of Management I Intro. to Marketing Intro. to Finance	3	3
MAJOR	QMS 351	Production and Operations Management Intro. to Management Science	3 3	3

GE AREA II	Social Science	Elective	3	
GE AREA IV	Humanities	Electives	3	6
GE AREA V	Phil-T/RS	Electives	3	3
			18	15

TOTAL: 139 credits

^{*} Comm. 100 & Engl. 107 are recommended

PRE-ENGINEERING

The University provides a pre-engineering program which introduces the student to the highly technical training necessary for all phases of the engineering profession. This is a two-year course of study which enables the student to transfer to another school to complete his degree work

Of special importance is the University of Scrantori's association with the Cooperative Engineering Program at the University of Detroit Mercy, and its programs in chemical, civil, electrical, environmental, and mechanical engineering. For the student who has completed the preengineering curriculum at the University of Scranton, the Detroit Mercy three-year cooperative program offers alternate semesters of formal instruction and work experience in industry. A direct transfer program is available with Widener College, which may be either a Co-op program beginning in the summer preceding the Junior Year or a regular two-year program. In addition to the valuable experience gained from industry, many students have been able to pay the cost of their tuition from the remuneration received for their work. This amounts to a substantial equivalent scholarship grant.

Other schools into which University of Scranton students transfer include Lehigh, Bucknell, Penn State and Drexel.

Generally, different engineering programs have slightly different requirements which must be completed before starting the Junior year. These will vary from school to school. Therefore, students should, before beginning the Sophomore year, consult with an advisor at the institution at which they plan to complete their studies

Description & Title of Course

Elements of Modern Physics

General and Analytical Chem.

4

3

18

3

3

18

Credits

		FRESHMAN	FALL	SPRING
COGNATE	Phys. 140-141	Elements of Physics I-II	4	4
COGNATE	CMPS 134	Computer Science I	3	
COGNATE	Math 114-221	Analysis I-II	4	4
GE AREA III	Communications	Elective*	3	
GE AREA IV	Humanities	Elective		3
GE AREA V	Phil. 120	Introduction to Philosophy	3	
GE AREA V	T/RS 121	Introduction to Theology		3
GE AREA II				
or IV	Elective	Social Science or		
		Humanities Elective		3
PHYS EDUC	Ph. Ed.	Physical Education		1
			18	17
		SOPHOMORE		
MAJOR	EE 240	Intro. to Digital Circuits	3	
MAJOR	EE 241	Circuit Analysis	_	4
MAJOR	Engr. 250-252	Statics-Solid Sum Materials	3	3
MAJOR	Engr. 253	Intro. C.A.D.	1	
MAJOR	Engr. 254	3-D C.A.D.		1
	-			

TOTAL: 71 credits

COGNATE

COGNATE

COGNATE

GE FREE

Analysis II

Diff. Equations

Elective

ENGR. 250 Staff

Phys. 270

Elective

Math 222-341

Chem. 112-113

ENGINEERING TRANSFER PROGRAM

Dept. and No.

^{*} The Department recommends Engl 107, Composition , or if exempt, Wrtg 211., Technical and Business Writing.

Engineering Mechanics-Statics

3 credits

(Prerequisite: Physics 140; Pre or corequisite: Math 221) Various types of force systems; resultants and conditions of translational and rotational equilibrium; stress analysis of the parts of different types of structures by graphical, algebraic and vector methods; frictional forces; centroids and second moments of areas of solids. 3 hours lecture

ENGR. 251 Staff

Engineering Mechanics-Dynamics

3 credits

(Prerequisite: Engr. 250; Pre- or corequisite: Math 222) Kinematics of particles and rigid bodies which include linear, curvilinear, angular and relative motions; inertia forces, impulse, momentum, work, energy and power; mechanical vibrations. 3 hours lecture

ENGR. 252 Prof. Kalafut

Solid State Materials Science

3 credits

(Prerequisites: Physics 270, Math 222) The crystalline state of matter; multielectron atoms and the band theory of solids; quantum statistics; applications to p-n junction diodes including photodetectors, LEDs and photovoltaics; biopolar and field effect transistors; transistor modeling. 3 hours lecture.

ENGR. 253 Dr. Connolly

An Introduction to Computer Aided Design

1 credit

(Prerequisites: Math 114, Cmps. 134) This course is an introduction to the methods of drafting and design using computer aided techniques. Topics to be covered include plane geometry construction, projection theory, sectional views, dimensioning, tolerancing and the development of working drawings. Extensive use will be made of commercially available CAD software packages. 2 hours laboratory.

ENGR. 254 Dr. Connolly

3D Computer Aided Design

1 credit

(Prerequisite: Engr. 253) This course is an advanced computer aided design lab with emphasis on three-dimensional techniques. Topics to be covered include wireframe and solid modeling, rendering and boolean operations. A number of classes will be devoted to the use of a finite element program for mechanical analysis of CAD designs. Extensive use will be made of commercially available software packages. 2 hours laboratory

ENGR. 350 Dr. Fahey

Applied and Engineering Mathematics

3 credits

(Prerequisite: Math. 222, Physics 141) First and second order differential equations with constant coefficients; Fourier series differential equations with constant coefficients; Fourier series and Fourier Transforms; partial differential equations and boundary value problems; special functions, e.g. Bessel functions and Legendre polynomials; elementary probability theory. (Also listed as Engr. 350.) 3 hours lecture.

ENGR. 352 Dr. Varonides

Statistical and Engineering Thermodynamics

3 credits

(Prerequisite: Phys. 270) Derivation of Thermo-dynamics from probability theory and atomic physics; Laws of Thermodynamics; Maxwell relations; chemical potential and phase changes; refrigerators and heat pumps; theory of gasses and theory of solids. Special topics dependent upon interests of majors represented. (Also listed as Physics 352.) 3 hours lecture

EE 240 Dr. Berger

Introduction to Digital Circuits

3 credits

Introduction to combinational and sequential digital logic circuits. Analysis and design techniques including Boolean Algebra and Karnaugh mapping. Use of the computer to simulate digital circuits. 3 hours lecture.

EE 241 Staff

Circuit Analysis 4 credits

(Prerequisite: Physics 141, Pre- or corequisite: Math 222) Intermediate course treating Kirchhoffs Laws, resistive networks, systematic methods, network theorems, first and second order transients, and sinusoidal steady-state. Introduction to SPICE. 3 hours lecture and 2 hours laboratory.

EE 243L Dr. DiStefano

Digital System Design Laboratory

2 credits

(Formerly EE 345L) Introduction to the design, construction and testing of digital logic circuits. Most of the major components of a computer will be investigated. Use of computer program to draw circuits and designs. 3 hours laboratory.

EE 343 Dr. Varonides

Electronic Circuits I

3 credits

(Prerequisites: EE 241, Engr. 252) Analysis and design of analog electronic circuits using diodes, BJTs, and FETs. Emphasis is placed on amplifier circuits and their frequency dependence. 3 hours lecture.

EE 343L Dr. McGinnis

Electronic Circuits ILab

2 credits

(Corequisite: EE 343) Experiments with diodes, BJTs, JFETs, and MOSFETs. Some of the experiments are short projects to introduce the student to the application of design principles. 3 hours laboratory.

EE 344 Dr. McGinnis

Electronic Circuits II

3 credits

(Prerequisite: EE 343, EE 343L) Laboratory oriented course designed to acquaint students with the operation and design of electronic instrumentation. Analysis of electronic instruments used in various applications and the design of special purpose instrumentation. Emphasis on use of operational amplifiers in design situations. 1 hour lecture and 3 hours laboratory

EE 346 Dr. Berger

Digital Signal Processing

3 credits

(Prerequisite: EE 342) A study of discrete-time signals and systems, convolution, z-transform, discrete Fourier transform, and FFT algorithms. Analysis and design techniques for digital filters and their realizations. Emphasis will be on the use of computer-aided interactive digital signal processing programs for several projects on signal analysis and filter design. 3 hours lecture

EE 447 Dr. Varonides

Electromagnetics I

3 credits

(Prerequisites: Physics 270, Engr. 350) Analytic treatment of electrical and magnetic theory; vector calculus of electrostatic fields; dielectric materials; vector calculus of magnetic fields. (Also listed as PHYS 447). 3 hours lecture.

EE 448 Dr. Zakzewski

Electromagnetics II

3 credits

(Prerequisite: EE 447) Magnetic materials, electromagnetic induction, displacement currents, Maxwell's equations; radiation and waves; applications include transmission lines, wave guides, and antennas. (Also listed as PHYS 448). 3 hours lecture

EE 448L Dr. Zakzewski

Electromagnetics Design Laboratory

1 credit

(Corequisite: EE 448) Laboratory designed to emphasize and reinforce the experimental basis of electromagnetism. Multi-week projects require the student to perform experiments that measure fundamental electrical constants, the electrical and magnetic properties of matter, and the properties of electromagnetic waves. (Also listed as PHYS 448 L). 2 hours laboratory

EE 449 Dr. Spalletta

Computer Interfacing

5 credits

(Prerequisites: EE 344. EE 345, EE 346) Microprocessor programming and interfacing; dam acquisition, manipulation and transmission; microprocessor support devices and common computer interfaces. 3 hours lecture and 4 hours laboratory

EE 450 Staff

Control Systems

3 credits

(Prerequisites: EE 342, EE 344, Engr. 350) Review of system modeling and Laplace Transforms; block diagram reduction and signal flow graphs; transient and steady-state control system characteristics; root locus and frequency response methods of analysis and compensation design; state variable methods. 3 hours lecture

EE 451 Staff

Communication Systems

3 credits

(Prerequisites: EE 342, EE 344, Engr. 350) A study of the principles of communication theory with emphasis given to analog and digital communications. Modulation techniques such as AM, DSB, SSB, and FM are discussed in detail. Performance of these systems in the presence of noise is also studied. 3 hours lecture.

EE 452 Dr. DiStefano

Very Large Scale Integration Devices I

3 credits

(Prerequisites: EE 344, EE 345) Analysis of MOSFET and CMOS circuitry. Use of computer programs such as SPICE and OCTTOOLS to design and analyze student design projects involving tens of transistors. 1 hour lecture and 3 hours laboratory.

EE 453 Dr. DiStefano

Very Large Scale Integration Devices II

2 credits

(Prerequisite: EE 452) Continuation of EE 452. Student designs are part of a class project and may revolve hundreds of CMOS circuits. 2 hours laboratory

EE 454 Staff

Senior Design Project and Professional Practice

3 credits

(Prerequisites: EE 449, EE 450) Students work with a faculty advisor or a practicing electronics engineer to consider realistic, generally unsolved problems from current technology. Projects involve creative conception, design, development and evaluation. The designs must consider economic constraints as well as factors such as reliability, safety, and societal impact. Written and oral presentation before a group of faculty. 1 hour lecture and 3 hours laboratory

EE 484 Dr. Varonides

Superconductivity Devices and Circuits

3 credits

(Prerequisites: EE 447 and ENGR 252) A course designed for students with interest in superconductivity. Strong background in calculus, electromagnetics and solid state devices is necessary. Topics to be discussed are: (a) perfect conductivity, the classical model of superconductivity, and direct applications. (b) The quantum model of superconductivity, Josephson junctions and superconducting devices (SQUID's). Homework problems routinely assigned. Group projects (literature search and brief presentations at the end of the term)

ENGLISH

DR. JORDAN, Chairperson

The English Department offers courses in literature, theatre, writing, film, pedagogy, and theory. Courses are designated as English (ENGL.), Theatre (THTR.), and Writing (WRTG.) and are described below under these groupings. In addition to the major in English, the department offers minors in English, in Theatre, and in Writing. English Majors may if they wish pursue either minors or tracks in Theatre and Writing. English majors pursuing tracks in Writing or Theatre may place these courses in either the elective or cognate area of the major. English majors pursuing minors in Writing or Theatre may place these courses in the cognate area of the major; courses used for a minor may not apply to requirements or electives within the major or within another minor

ENGLISH MAJOR. The student majoring in English must take ENGL.140 (English Inquiry), and eleven other courses designated ENGL., THTR., or WRTG. Six of these courses must satisfy six area requirements:

- A. British Literature:Medieval and Renaissance (ENGL. 134, 139, 164, 165, 219, 226, 323, 335)
- B. British Literature:Restoration and Eighteenth Century (ENGL. 244, 245)
- C. British Literature: Romantic and Victorian (ENGL.264, 371, 372, HUM 286)
- D. American Literature to 1865 (ENGL. 324, 325, 326, 330, 344)
- E. Modern British Literature (ENGL. 334, 336, 364)
- F. American Literature 1865-Present (ENGL. 331, 332, 424, 425, 426, 427, 444)

To satisfy this requirement, students must complete one course from each area. Students are urged to fill these area requirements sequentially. The English major may take Theatre andor Writing courses in the cognate but a particular course may not be listed in both the major and the cognate.

THEATRE TRACK. Completion of this track will be noted on the English Major's transcript. The student must complete a minimum of 15 credits. Courses counted toward the track include any course designated with the THTR. prefix as well as WRTG. 215, 217, and 315, and ENGL. 134, 222, 223, 226, 245, 335, 384, and 427.

WRITING TRACK. Completion of this track will be noted on the English Major's transcript. The student must complete a minimum of 15 credits designated with the WRTG. prefix, including at least one course in Creative Writing (WRTG. 213, 214, 215, 216, 217, 313, 314, 315, 316) and one in Applied Writing (WRTG. 210, 211, 212).

ENGLISHMINOR. To minor in English the student must take a minimum of 18 credits. Two courses are required: 1) ENGL. 107 or WRTG. 210, and 2) ENGL. 102, 103, 104, 133, or 140. The remaining twelve credits must be taken in courses that would satisfy area or elective requirements in the English major. Students exempted from ENGL. 107 must substitute a course that would satisfy area or elective requirements in the English major

THEATRE MINOR. To minor in Theatre the student must take a minimum of 18 credits. Three courses are required: 1) THTR. 110, 111, and THTR. 211 or 212. Elective courses counted toward the minor include any course designated with the THTR. prefix as well as WRTG. 215, 217, and 315. One elective may be ENGL. 104, 134, 222, 223, 226, 245, 335, 384, or 427

WRITINGMINOR. To minor in Writing the student must take a minimum of 18 credits in courses designated with the WRTG. prefix. At least one course is required in Creative Writing (WRTG. 213, 214, 215, 216, 217, 313, 314, 315, 316) and in Applied Writing (WRTG. 210, 211, 212)

ENGLISH

ENGL. 101 Staff

Introduction to Literature

3 credits

An exploration of the nature of prose fiction, poetry, and drama. The emphasis is critical rather than historical. The range of works and the specific selections may vary with the individual instructor.

ENGL. 102 Staff

Introduction to Fiction

3 credits

An exploration of the nature of prose fiction, its elements and techniques. The emphasis is critical rather than historical. The range of works and the specific selections may vary with the individual instructor.

ENGL. 103 Staff

Introduction to Poetry

3 credits

An exploration of the nature of poetry, its value, aims, and techniques. The emphasis will be critical rather than historical. The range of poems and the specific selections will be the choice of the individual instructor.

ENGL. 104 Staff Introduction to Drama 3 credits

An exploration of the nature of drama, its types, techniques, and conventions. The emphasis will be critical rather than historical. The range of plays and the specific selections may vary with the individual instructor. This course may be counted toward the theatre minor

ENGLISH

Dept. and No.		Descriptive Title of Course		
•	Credits	·		
		FRESHMAN	FALL	SPRING
MAJOR	Engl. 140 *	English Inquiry	3	
English Area	AMedieval and Renaissance		3 3	
COGNATE	Electives	Electives	3	3
GE AREA I	Nat. Sci./Quant.	Elective		3
GE AREA II	Social/Behavioral	Electives	3	3
GE AREA III	Communications	Elective	3	
GE AREA V	Phil. 120	Introduction to Philosophy	3	
	T/RS 121	Theology I		3
PHYS EDUC	Ph. Ed.	Physical Education	11	1
		•	16	16
		SOPHOMORE		
MAJOR	English Area B	Restoration and Eighteenth		
	g	Century English	3	
		, 0		
Area C	Romantic and Victorian		3	
COGNATE	Electives	Foreign Language/ Cognate	3 3 3 3	3
GE AREA I	Nat. Sci/Quant.	Electives	3	3
GE AREA III	Communications	Electives	3	3
GE AREA V	Phil. 210	Ethics	3	
	T/RS 122	Theology II		3
PHYS EDUC	Ph. Ed.	Physical Education	1	<u> </u>
			16	16
		JUNIOR		
MAJOR	English Area D	American Literature to 1865	5 3	
	English Area E	Modern British Literature		3
	Electives	Electives	3	3
COGNATE	Electives	History or other cognates		
GE AREA II	Social/Behavioral	Electives	3 3 3	3 3 3
GE AREA V	Phil-T/RS	Electives	3	3

GE FREE	Elective	Elective	3	
		<u> </u>	15	18
		SENIOR		
MAJOR	English Area F	American Literature 1865 -		
	· ·	Present	3	
	Electives	Electives	3	6
COGNATE	Electives	Foreign Literature/Cognate	3	3
GE AREA IV	Humanities	Electives	3	3
GE FREE	Electives	Electives	3	3
			15	15

TOTAL: 127 credits

For Freshman COGNATE sequence, History 120-121 or foreign language is recommended. For G.E. Area III, if student does not otherwise satisfy the University's proficiency requirements, Engl. 107 and Comm. 100 are required.

ENGL. 105 Staff Written Communication 3 credits

An introduction to non-expository forms of writing

ENGL. 107 Staff Composition 3 credits

A study of expository and argumentative prose, and the processes and techniques effective writers use. Classical rhetorical strategies, a variety of grammatical and theoretical approaches, and (often) computer programs are employed to help students understand composition as a means of communication and as a mind-shaping discipline in the liberal arts tradition. (GE Area III)

ENGL. 119-120 Dr. Jordan
Masterworks of Western Civilization 6 credits

Study of masterpieces of literature from the Hebrew Old Testament and classic Greek to the modern European, illuminating the development of Western civilization

ENGL. 121 Dr. Jordan Myth of the Hero 3 credits

Mythic materials are examined to discover the underlying heroic archetypal patterns. Then modern literature is examined in the light of the same mythic patterns

ENGL. 122 Dr. Gougeon

Classic American Stories

3 credits

As an introduction to the American short story, this course will examine representative examples of the genre from the 19th century to the present. Emphasis will be placed on the significance of individual works, but some consideration will be given to the evolving American milieu. Authors such as Hawthorne, Poe, Crane, Malamud, and Oates will be considered

ENGL. 124 Dr. McInerney History of Cinema 3 Credits

A study of historical development of motion pictures. Practitioners in America and throughout the world are treated in this concise history of cinema. Film screening fee. (GE Area IV)

ENGL. 125 Dr. McInerney

The Art of Cinema 3 credits

The study of the artists, technicians and businessmen who make films. Taped interviews of internationally famous film makers, as well as an analytic scrutiny of modern films, develop students" intelligent, active participation in the major art form in modem culture. Film screening fee. (GE Area IV)

ENGL. 126 Dr. McInerney

^{*} Any student declaring an English major who has already completed nine or more hours of courses which will count toward the major but who has not completed ENGL. 140 will substitute an additional 400-level course for ENGL. 140

Film Genres 3 credits

A study of the popular film genres (i.e., the western, the thriller, the musical, the historical epic, the woman's picture as they developed and changed in the U.S. and abroad.) Film screening fee. (GE Area IV)

ENGL. 127 Dr. McInerney

Film Criticism

3 credits

A study of the grammar, poetics, rhetoric, and aesthetic of film criticism constitutes the heart of this course. Film screening fee. (GE Area IV)

ENGL. 130 Staff

Children"s Literature

3 credits

A broad study of literature for children since 1800, with the emphasis on American works since 1950, including aesthetic consideration of the art and design of picture books. Works are considered for children up to the age of 12

ENGL. 133 Dr. Whittaker

Introduction to Irish Culture

3 credits

An exploration of Irish culture by means of the island's major works of mythology, history, religion, folk story, fairy tale, song, verse, drama, and fiction. All readings in English

ENGL. 134 Dr. Friedman

Shakespeare (A)

3 credits

An introduction to the works of William Shakespeare, including forays into each of the major dramatic genres (comedy, tragedy, history, and romance). Consideration will be given to the biographical and cultural contexts which helped to determine the reception and impact of individual works. This course may be counted toward the Theatre Track or minor

ENGL. 139 Staff

Milton & 17th Century Poetry (A)

3 credits

Studying the poetry of John Milton, "a major figure," the Metaphysical poets, and the Cavalier poets ought to bring the student to a reputable understanding of late English renaissance. The 17th century is a vital era for those wishing to understand the results of the Elizabethan Age and the onrush of the Restoration and 18th century poets

ENGL. 140

Drs. Casey, Rakauskas, and Engel

English Inquiry

3 credits

An exploration of fiction, poetry, and drama. The approach is inductive; the aims are a greater understanding of literature, and an introduction to techniques of literary scholarship, theory, and research.

ENGL. 164 Dr. Beal

British Literature: Medieval and Renaissance (A)

3 credits

A detailed study of representative works and authors from the Anglo-Saxons to the seventeenth century. Though the emphasis will be on an intensive study of major works in their literary and cultural context, consideration will be given to minor writers as well

ENGL. 165 Dr. Beal

Literature in the Age of Chaucer (A)

3 credits

The course will explore fourteenth-century non-dramatic vernacular literature. Authors studied, in addition to Chaucer, may include Langland, Kempe, and the Pearl Poet

ENGL. 202 Staff

English Literature 450-1800

3 credits

A study of English literature from Beowulf to the beginnings of the romantic movement. The emphasis is textual and critical

ENGL. 203 Staff

English Literature 1800 to the Present Day

3 credits

A study of English literature from the romantic period to the twentieth century. The emphasis again is textual and critical.

ENGL. 205 Staff

American Literature through the Romantic Period

3 credits

A study of major figures in America's literature from the colonial period through the age of transcendentalism, including such figures as Edward Taylor, Jonathan Edwards, Hawthorne, Thoreau, Emerson, Melville, and Whitman

ENGL. 206 Staff

American Literature to the Present Day

3 credits

A study of major figures in America's literature from the beginnings of realism to today's literature of revolt. Included will be such disparate authors as Twain, Dickinson, Dreiser, Lewis, Hemingway, Fitzgerald, Ginsberg.

ENGL. 219 Dr. Beal

Camelot Legend I (A)

3 credits

This course will examine the development of Arthurian legend tales of knights and ladies associated with the court of King Arthur-from its early origins in Celtic and Latin medieval literature, through medieval romances and histories, culminating in Malory's *Morte Darthur*.

ENGL. 220 Dr. Beal Camelot Legend II 3 credits

(Prerequisite: Engl. 219 or Instructor's permission.) The development and elaboration of the legend in twentieth century forms: novels, musicals, movies and the short story. Emphasis on writing and class discussion.

ENGL. 221 Dr. Jordan, Prof. Hill

Modern Poetry

3 credits

Modern poets ranging from Yeats and Hopkins to Plath and Hughes are examined. Major emphasis is placed on close critical readings of representative works

ENGL. 222 Dr. McInerney

Modern Drama

3 credits

(Prerequisite: Student should have some previous study of drama.) A detailed introduction to the major trends and authors in 20th century British and American drama, with some Irish and Continental works included. Readings and assignments will focus on major figures such as Shaw, O"Neill, Miller, Williams. This course may be counted toward the Theatre Track or minor

ENGL. 223 Dr. McInerney

Dramatic Comedy

3 credits

Principles, modes, tactics used in dramatic comedy. The plays of writers ranging from Shakespeare to Neil Simon, as well as several films, will be analyzed as models. Opportunity for student writing of comedy. This course may be counted toward the Theatre Track or minor

ENGL. 225 Dr. Whittaker

Writing Women

3 credits

In this course we will survey the issues raised in Virginia Woolfs A Room of One's Own and Carolyn G. Heilbrun's Writing a Woman's Life. We will discuss theoretical and practical essays incorporating British Marxist Feminism, French Psychoanalytic Feminism, and American Traditional Feminism. By the light of these approaches we will read short selections of fiction and poetry from Sappho to Willa Cather and Adrienne Rich

ENGL. 226 Dr. Beal

Introduction to Late Medieval Drama (A)

3 credits

An introduction to the drama which flourished in the late fourteenth and fifteenth-century: the Corpus Christi cycle, morality plays such as *Everyman, Mankind,* and *Castle of Perseverance,* and the saint's play. (Individual plays studied will change from year to year). This course may be counted toward the Theatre Track or minor.

ENGL. 227 Dr. DeRitter

Frankenstein"s Forebears

3 credits

An interdisciplinary exploration of the lives and works of one of Englands most fascinating literary families. William Godwin was an anarchist philosopher and novelist; Mary Wollstonecraft was a feminist, memoirist, and novelist; their daughter, Mary Shelley, is best known as the author of *Frankenstein*, while her husband, Percy Bysshe Shelley, was a well-known poet and a political radical in his own right

ENGL. 231 Dr. Whittaker

Woody Allen 3 credits

This course examines the films, the published screenplays, the volumes of short prose, and assorted interviews and articles. We will examine some of Woody Aller's sources, such as Plato, Shakespeare, Joyce, and Bergman. Our approach will be historical and analytical

ENGL. 244 Dr. DeRitter

British Literature: The Restoration and Eighteenth Century (B)

3 credits

Study in depth of the major works of such authors as Dryden, Pope, Swift, Boswell, and Johnson, among others. Due attention will be given to critical analysis, literary research, and historical, social, and political background.

Dr. DeRitter **ENGL. 245**

Restoration and 18th-Century Drama (B)

3 credits

An examination of the major developments in comedy, tragedy, and experimental dramatic forms on the English public stage between 1660 and approximately 1775. Discussions will focus frequently on the social, political, and institutional changes which altered the ways in which theatre was produced during the period. The reading list will include works by Wycherley, Behn, Dryden, Otway, Congreve, Rowe, Addison, Steele, Gay, Lillo, Fielding, Goldsmith, and Sheridan. This course may be counted toward the Theatre Track or minor

ENGL. 264

Drs. Casey and Fraustino

British Literature: Romantic and Victorian Periods (C)

A study of major literary works in nineteenth-century England:poetry, novels and non-fictional prose. The emphasis is threefold: critical analysis; literary history; social, intellectual and political background.

ENGL. 310 Dr. Rakauskas

Written Communication; Strategies for Teaching Writing

3 credits

This course for English/Ed majors emphasizes strategies for taking students into, through, and beyond the writing process. Students have many opportunities to plan and to design writing assignments, to conduct writing sessions, and to evaluate written composition. (GE Area III) **ENGL. 311**

Prof. Heaton

Magazine Editing

3 credits

The process of editing is surveyed. Macro-editing (publishing for a defined audience and delighting, surprising, informing, and challenging it) is emphasized over micro-editing (grammar, punctuation, and so forth). Both are fit into the larger picture of promotion, fulfillment, circulation, advertising, production, and distribution.

ENGL. 317 Dr. DeRitter

Race in Anglo-American Culture, 1600-1860

3 credits

This course will examine Anglo-American portrayals of African- and Native American peoples in the early modern era. We will study works from both high culture (poems, plays, and novels) and low culture (Indian captivity narratives, frontier biographies, and slave autobiographies). The reading list will include writers such as Richard Hakluyt, Mary Rowlandson, John Dryden, Aphra Behn, James Fenimore Cooper, Herman Melville, Henry Wadsworth Longfellow, Catherine Maria Sedgwick, and Harriet Beecher Stowe.

ENGL. 318 Dr. DeRitter

Milton"s Paradise Lost

3 credits

Intensive study of Milton's masterpiece. In addition to our reading and discussion of the text itself, we will examine its biographical and historical context and explore a variety of critical approaches to the poem.

ENGL. 319 Dr. Casev

The English Novel: 18th & 19th Centuries

3 credits

The history of the English novel from its origins in the early 18th century until the end of the 19th century. The course focuses on such major figures as Defoe, Richardson, Fielding, Austen, Dickens and Eliot.

ENGL. 320 Dr. Passon Introduction to Satire 3 credits An exploration of the historical, critical, and conceptual nature of satire, including established satirical conventions and techniques. Representative examples in fiction, drama, and poetry, from a variety of literary periods, will be considered. Special emphasis will, however, be placed on British literature of the Restoration and Eighteenth Century, the Age of Satire. Though the course will focus on satirical literature, examples of satire from other media will be sampled

ENGL. 321 Dr. Fraustino

Macabre Masterpieces

3 credits

This course studies works of horror-or Gothic-fiction in England and America that best exemplify this mode of writing as a serious art form in its exploration of the human mind, particularly abnormal psychology. Works we will read may include: Mary Shelley's *Frankenstein*, Robert Louis Stevenson's *Dr. Jekyll and Mr. Hyde*, Joseph Conrad's *Heart of Darkness*, Bram Stoker's *Dracula*, the works of Edgar Allan Poe, and others

ENGL. 322 Prof. Hil

British Imperial Fiction

3 credits

The myths and meaning of the Imperial experience in the 19th and 20th centuries as represented in British fiction by Kipling, Conrad, Greene, Orwell and others

ENGL. 323 Staff

Renaissance Poetry and Prose (A)

3 credits

Detailed study and discussion of several varieties of English literature written between the time of Sir Thomas More and John Milton. Lyric and narrative poetry, fictional and non-fictional prose, and drama will be included in course readings, discussions, and assignments. Typical authors covered include More, Surrey, Lyly, Spenser, Sir Philip and Mary Sidney, Donne, Webster, Jonson, Marvell, and Milton.

ENGL. 324 Dr. Gougeon

American Romanticism (D)

3 credits

This course will deal with representative short works of America's six major Romantic authors: Emerson, Thoreau, Whitman, Hawthorne, Melville, and Poe

ENGL. 325 Dr. Gougeon

Major Works: American Romantics (D)

3 credits

Cooper's *The Prairie*, Emerson's *Nature*, Thoreau's *Walden*, Melville's *Moby Dick*, and others. Evaluation of the works in their historical context and the development of the American Romantic movement, 1820-65.

ENGL. 326 Fr. Joseph Quinn

Transcendentalists (D)

3 credits

Course transcends typical limits of this literary period to Emerson and Thoread's major works. Thus, Orestes Brownson, Margaret Fuller, Ellery Channing, Theodore Parker are covered **ENGL. 329**Prof. Schaffer

Introduction to Jewish Literature

3 credits

The course provides a broad literary overview of Jewish life from medieval times to the present, examining the poetry, fiction, memoirs, and drama of Jewish writers from a variety of cultures

ENGL. 330 Dr. Gougeon

Masters of Darkness (D)

3 credits

This course will survey a significant sampling of the short works of three of Americas most famous "dark Romantic" writers: Melville, Hawthorne, and Poe. Consideration will be given to the historical milieu and the authors" responses to the problems and promises of the American experience

ENGL. 331

Fr. Joseph Quinn

Major Works of Twain and James (F)

3 credits

Works to be studied include Twain's *Adventures of Huckleberry Finn* and *A Connecticut Yankee in King Arthur's Court;* James" *The Portrait of a Lady* and *The Ambassadors.* These works will be examined both in terms of their historical context and by way of a comparative analysis of the two authors.

ENGL. 332 Fr. Joseph Quinn

Major Works of Hemingway and O"Hara (F)

3 credits

Works to be studied include Hemingway's *The Sun Also Rises* and *For Whom the Bell Tolls;* O"Hara's *Appointment in Samarra* and *From the Terrace*. These will be examined both in terms of their historical context and basic themes, and by way of a comparative analysis of the two authors.

There will also be some investigation as to how certain authors either become or do not become academically and critically acceptable

ENGL. 333 Dr. Gougeon

The Development of the American Novel

3 credits

This course will deal with representative novels produced in America from the late 18th to the 20th century. The course will focus on the novel as representative of changing literary and cultural values throughout the period. Authors considered will include Charles Brockden Brown, Nathaniel Hawthorne, Mark Twain, Kate Chopin, John Steinbeck, and Kurt Vonnegut, Jr

ENGL. 334

Fr. J.J. Quinn

Irish Short Story (E)

3 credits

Introduces American students to the variety and richness of the short story from the pens of such masters as Yeats, Joyce, Frank O'Connor, Lavin, Kiely, F. O'Brien, McGovern, Jordan, Trevor, Beckett and others. Serious craftsmen aware of the verbal tradition, shapers of the Literary Revival, these masters of language forge a literature that affirms spiritual values in the midst of material misery.

ENGL. 335 Dr. Friedman

Shakespeare: Special Topics (A)

3 credits

A detailed study of Shakespeare's treatment of either a particular genre (comedy, tragedy, history, romance) or a particular subject that occurs across genres. Special attention will be paid to the meaning of plays in performance. This course may be counted toward the Theatre Track or minor **ENGL. 336**Fr. J.J. Quinn

Modern Irish Novel (E)

3 credits

A selective introductory course to Ireland's renowned modern novelists: Francis Smart, John McGahern, William Trevor, Nell Jordan, Brian Moore, Bernard MacLaverty, John Banville and others. These literary artists capture the verve, flavor, and life illumination that distinguish today's Irish novels.

ENGL. 344

Fr. Joseph Quinn, Dr. Gougeon

American Literature to 1865 (D)

3 credits

An in-depth study of a select group of major American authors from the Colonial Period to the Civil War. Included are Bradford, Franklin, Irving, and Poe. Consideration given to the historical and cultural milieu and development of major American themes and attitudes

ENGL. 351

Prof. Schaffer

The Cross-Cultural Novella

3 credits

This course aims both to foster an understanding and appreciation of the novella as a distinct literary form combining the short story's unique focus on character and closed plot structure with the novel's broader treatment of time and place and to introduce the student to the literature of a variety of continents and cultures. The course will deal with writers such as Tolstoy, Flaubert, Kafka, Kawabata, Mann, and Gaines

ENGL. 364 Staff

Modern British Literature (E)

3 credits

Selected modern and postmodern English poets, playwrights, and fiction writers: Hopkins, Eliot, Hughes, Auden, Larkin, Spender, Osborne, Stoppard, Pinter, Greene, Waugh, Read, Lodge, Amis, Spark, McEwan, and Chatwin.

ENGL. 371 Dr. Casey

Victorian Voices (C)

3 credits

The course will focus on three major Victorian authors: one non-fiction prose writer, one novelist, and one poet. Possible authors include Carlyle, Arnold, Ruskin, Dickens, Eliot, Bronte, Tennyson, Browning, Rossetti.

ENGL. 372 Dr. Fraustino

The English Romantic Poets (C)

3 credits

This course surveys the major British Romantic poets within their historical and intellectual contexts. It proceeds chronologically, beginning with William Blake and concluding with John Keats. Through close textual analysis and in-class discussion of major poems, students should develop an appreciation and understanding of the literature of the period

ENGL. 382-383, 482-483 Guided Independent Study Staff variable credit

A tutorial program open to Junior and Senior students. Content determined by mentor

ENGL. 395 Staff

Travel Seminar: Ireland

3 credits

This is an artistic, cultural, literary tour. Students will study the people and places that contribute to Ireland's distinct place in the World of Literary Art. (Intersession or Spring Break)

ENGL. 419 Dr. Engel

Modern Novel

3 credits

(Formerly Engl. 153) The evolution of the novel from modern to postmodern times. Major American and English writers are studied, moving from traditional narrative to self-conscious stylistic devices

ENGL. 420 Dr. Fraustino

Comparative Romanticism

3 credits

Major British and American Romantic writers will be studied in an effort to distinguish the forms Romanticism takes in the two countries and to determine possible relationships. Authors to be examined include Blake, Wordsworth, Coleridge, Shelley, Keats, Hawthorne, Poe, Emerson and Whitman.

ENGL. 421 Dr. Fraustino

Literature of the Absurd

3 credits

Focusing on literature from 1850 to the present, this course will examine works of fiction, drama, and to some extent poetry that reflect a general 19th and 20th century western sense of disintegrating values and lost religious beliefs. Readings will include works by Edgar Allan Poe, Lord Byron, Thomas Hardy, Robert Louis Stevenson, Joseph Conrad, Tennessee Williams, Ernest Hemingway, and Samuel Beckett

ENGL. 424

Fr. Joseph Quinn

American Realists (F)

3 credits

Study of representative figures in the post Civil War period, the period of the rise of American realism. Authors treated will be Mark Twain, Henry James, Stephen Crane and selected modern authors.

ENGL. 425 Dr. Gougeon

Major Works: American Realists (F)

3 credits

Twain"s *Huckleberry Finn*, Howell"s *The Rise of Silas Lapham*, James" *The American*, Crane"s *The Red Badge of Courage*, Dreiser"s *Sister Carrie*, and others. Works are evaluated in their historical milieu and the development of American Realism, 1865-1900

ENGL. 426

Fr. J.J. Quinn

Modern American Short Story (F)

3 credits

An intensive study of representative modern American Masters of the short story form. The film version of many stories studied allows an enriching comparative experience

ENGL. 427 Staff

American Drama: 1919-1939 (F)

3 credits

A review of the first "golden age" of American drama, which includes biting masterpieces such as *The Hairy Ape, Awake and Sing*, and comic works such as *You Can"t Take It With You* and *The Time of Your Life*. This course may also be counted toward the Theatre Track or minor

ENGL. 431 Dr. Beal

Dante"s Divine Comedy

3 credits

A canto-by-canto study, in translation, of Dante's dream vision of hell, purgatory, and heaven. Consideration given to the cultural milieu and to medieval art and thought as these affect the allegorical meaning and structure of the poem

ENGL. 432 Dr. Beal

Chaucer

3 credits

A study of Chaucer's poetry in the context of medicyal culture. Readings and assignments will

A study of Chaucer's poetry in the context of medieval culture. Readings and assignments will concentrate on *The Canterbury Tales*, but will also cover the other major poems, such as the *Book of Duchess* and the *Parliament of Birds*.

ENGL. 434 Dr. Fraustino

Keats: Death and Love 3 credits

Course will focus almost exclusively on one writer, John Keats, and explore the dynamic relationship in his poetry between death and love

ENGL. 436 Fr. J.J. Quinn

Poetry of G.M. Hopkins, S.J

3 credits

(Prerequisite: Engl. 140 or Engl. 103) Gerard Manley Hopkins, the only priest-poet in history to be honored with a place in Westminster Abbey's Poets" Corner, will be studied in his poetry and Jesuit background as a Nature, Victorian, Religious, Original, Theological, Meditative, and the first Modern, Poet.

ENGL. 437 Prof. Hill Conrad"s Fiction 3 credits

A reading of major works by Conrad and survey of critical response to this quintessential modern Western writer.

ENGL. 438 Dr. Whittaker

Joyce 3 credits

This course explores the prose works of James Joyce, one of the lights of Anglo-Irish writing, and a major figure in twentieth century literature. We will read and discuss *Dubliners*, *A Portrait of the Artist as a Young Man*, and, with the help of various guides, the masterpiece, *Ulysses*. We will work to apprehend in Joyce both the universal and the peculiarly Irish

ENGL. 439 Fr. J.J. Quinn

Flannery O"Connor

3 credits

A critical study of the short stories and novels of this modern American Christian writer

ENGL. 440 Dr. DeRitter

Early English Novelists

3 credits

(Prerequisite: satisfaction of AreaB requirement for English major or permission of instructor) Detailed study of three or four English novelists whose primary works were published between 1680 and 1800. At least two novels by each author will be read, as well as relevant background texts and critical discussions. The specific content of the course will change each time it is offered, but the list of authors under consideration will always include at least two of the following: Behn, Defoe, Richardson, Henry Fielding, Sarah Fielding, Smollett, Sterne, Burney, Godwin, Wollstonecraft, and Austen.

ENGL. 444 Drs. Whittaker and Gougeon

American Literature, 1865-Present (F)

3 credits

Study of a select group of major American authors from the Civil War to the present. Included are Twain, Crane, Fitzgerald, and Vonnegut. The historical and cultural milieu and the development of major American themes and attitudes are reviewed

ENGL. 460 Dr. Rakauskas

Teaching Modern Grammars

3 credits

This course is designed to provide an understanding of the English language and its grammar, based upon recent linguistic analysis of the language, and to assist the future teacher in his or her understanding of transformational/generative grammar and its place in the curriculum. Techniques for teaching these new grammars, and laboratory teaching experience in the freshman writing clinic will be presented. Students seeking certification as secondary school English teachers should also be advised that the usual teacher of Engl. 460, as well as 310, Dr. Wm. Rakauskas, supervises student teachers for the department. (GE Area III)

ENGL. 464

Drs. Whittaker and DeRitter

Literary Criticism and Theory

3 credits

This course analyzes the derivation and methodology of the theories underlying contemporary practice. For historical perspective, we turn to Plato and Aristotle, and then to a survey of other major classical, renaissance, enlightenment, and 19th-century sources. Thence we examine 20th-century critical theories, namely: psychoanalysis, marxism, feminism, formalism (new criticism), reader-response, structuralism, deconstruction, and cultural materialism (new historicism)

ENGL. 480 Staff

Internship variable credit

English majors can receive internship credits for a variety of on-the-job work experiences. Approval, must be obtained beforehand from chairperson and dean

THEATRE

See also WRTG. 215, 217, 315, and ENGL. 104, 134, 222, 223, 226, 245, 335, 427

THTR. 110 Dr. Robbins

Introduction to Theatre

3 credits

(Formerly Engl. 115) An introduction to the theories and practices of the theatre arts. Dramatic structure, dramatic literature, critical writing, acting, directing, design, practical stagecraft, and some theatre history will all be touched on in an effort to introduce students to the fullness and variety of the art of theatre.

THTR. 111 Staff

Introduction to Acting

3 credits

(Formerly Engl. 116) This first course of a three-course sequence focuses on the actors work on himself. Basic acting exercises, short "contentless scenes," improvisations, and theatre "games" are employed to demonstrate and develop the fundamental elements of the actors craft.

THTR. 112 Staff

Introduction to Technical Theatre

3 credits

(Formerly Engl. 117) A study of materials, equipment, and techniques used in the construction and finishing of scenery. Also includes principles of lighting and sound and special effects for the stage. Afternoon studio sessions and participation on a technical crew for a major University Players production will be required.

THTR. 113 Staff

Introduction to Design for Theatre

3 credits

(Formerly Engl. 118) An introduction to the various design and production elements in theatre. Scenery, lighting, costumes. projections, props and sound will be explored. Students participate in the design elements of the University productions

THTR. 210 Staff

Intermediate Acting

3 credits

(Formerly Engl. 215; Prerequisite: THTR. 111 with a grade of B or higher.) This semeste's study focuses on the actor's work on the role. Building on the fundamentals of the acting process, students are required to perform a variety of characters in scripted scenes. Stress is given to imagination, dramatic action, and characterization

THTR. 211 Dr. Robbins

Theatre History I

3 credits

(Formerly Engl. 217) A chronological study of western theatre from ancient Greek drama to 17th century British drama. A selection of plays from representative playwrights will be read and discussed. with an emphasis on the social, cultural, and theatrical contexts within which these playwrights lived and worked

THTR. 212 Dr. Robbins

Theatre History II

3 credits

(Formerly Engl. 218) A chronological study of western theatre from 17th century French and Spanish, through Restoration and 18th century British drama. up to 19th century German, Scandinavian, and Russian drama. A selection of plays from representative playwrights will be read and discussed, with an emphasis on the social, cultural, and theatrical contexts within which these playwrights lived and worked

THTR. 213 Staff

Set Design for the Theatre

3 credits

(Formerly Engl. 228; Prerequisite: THTR. 113 with a grade of B or higher.) An exploration of the basic crafts of the theatrical set designer. Concentration on developing ones personal vision and interpretive skills through script analysis. Practice in sketching, drafting, painting, collage, model making and typical stage construction. Introduction to environmental theatre

THTR. 214 Staff
Drama Practicum 3 credits

(Formerly Engl. 280; Prerequisite: any other course that may be counted in Theatre minor.) Work on one of the major aspects of producing a play: acting, costuming, set construction, lighting, publicity, and box office management

THTR. 310 Staff

Theories of Theatre

3 credits

(Formerly Engl. 316) Students will study the theories of theatre advanced in the writing of Diderot, Archer, Stanislavsky, Vakhtangov, Brecht, Copeau, Artaud, Grotowski, Brook, and Schechner

THTR. 370 Staff

Technical Theatre: Special Topics

3 credits

Topic and prerequisites will be announced prior to preregistration

THTR. 371
Theatre Design: Special Topics

Staff 3 credits

Topic and prerequisites will be announced prior to preregistration

THTR. 372

Staff

3 credits

Dramatic Literature: Special Topics

Topic and prerequisites will be announced prior to preregistration

THTR. 373

Staff 3 credits

Acting: Special Topics

Topic and prerequisites will be announced prior to preregistration

THTR. 382-3, 482-3

Staff

Independent Study in Theatre

3 credits

A tutorial program open to Junior and Senior students who have completed appropriate lowerdivision coursework.

THTR. 410 Staff

Advanced Acting

3 credits

(Formerly Engl 216; Prerequisite: THTR. 111 or 210 with a grade of B or higher.). This final semester in the acting sequence focuses on the problems of style, form, and period. Attention is given to voice and movement, the problems of verse, and the question of style in period plays. Students are required to perform scenes from both period and modern plays

THTR. 411 Staff

Directing the Play

3 credits

(Formerly Engl. 111 or Engl. 315; Prerequisite: THTR. 111 with a grade of B or higher or permission of instructor.) Students first learn the stage director's approach to play analysis and the ways to arrive at a directorial concept for a particular play. The techniques of communicating concept to fellow theatre artists and audience are considered, followed by practical exercises in developing the scenic elements of production. The course culminates in a workshop of student-directed short plays open to the public

WRITING

All Writing courses have ENGL. 107 (or equivalent) as prerequisite

WRTG. 210

Advanced Composition

3 credits

Dr. Rakauskas, Prof. Hill

(Formerly Engl. 210) The purpose of this course is to review, practice and apply the principles of a rhetoric of order, stressing invention, disposition, style, tone and theme. (GE Area III)

WRTG. 211 Dr. Fraustino

Technical and Business Writing

3 credits

(Formerly Engl. 111) A course in scientific or technical writing designed to help students improve their writing skills in preparation for their professions. Specialized training is offered in writing of proposals, reports, instructions, letters, abstracts, resumes, etc. (GE Area III)

WRTG. 212 Dr. McInerney

Writing for the Law

3 credits

(Formerly Engl. 211) This course aims to help the student develop the writing skills that will be of particular value to prospective lawyers. Readings, exercises, and assignments stress precision and conciseness as well as careful argument. The course should also be valuable to any student who wants to improve his/her analytical ability and expressive capacity. (GE Area III)

WRTG. 213 Prof. Schaffer Schaffer 3 credits

(Formerly Engl. 213) Designed to increase students' skills in writing short prose fiction, this course augments frequent practice in the genre with attention both to theories of short story composition and to diverse examples. In a workshop atmosphere, students will read and discuss one anothe's work as well as fiction by well known authors. (GE Area III or IV)

WRTG. 214 Staff

Nonfiction Writing I

3 credits

(Formerly Engl. 212) Designed to develop skills in writing creative nonfiction prose, this course employs a workshop format and requires intensive reading and analysis of student work as well as work by noted practitioners such as Orwell, Baldwin, Didion, and Dillard. (GE Area III or IV)

WRTG. 215 Dr. Robbins

Play Writing 3 credits

(Formerly Engl. 414) Course is designed to teach student craft and technique of writing a play. The students will explore their own abilities through play writing and will be responsible for writing a full one act play or one act of a two or three act play. (GE Area III or IV; This course may be counted toward the Theatre Track or minor.)

WRTG. 216 Prof. Hill

Poetry Writing I

3 credits

(Formerly Engl. 214) Theory and practice of writing poetry with attention to modern and contemporary tradition and criticism. Opportunity for sustained, serious response to student work and practical advice on markets, publishing procedures, etc. The course employs a workshop format and encourages serious reading and discussion of poetry. (GE Area III or IV)

WRTG. 217 Staff

Scriptwriting 3 credits

(Formerly Engl. 413; Prerequisite:Engl. 107 or equivalent) Introduction to the film and television format for dramatic productions of varying lengths. Documentaries are also studied. Students not only master technique but also explore development of plot and character. Four major assignments and several short projects are required. (GE Area III or IV; This course may be counted toward the Theatre Track or minor.)

WRTG. 313 Prof. Schaffer

Fiction Writing II 3 credits

(Formerly Engl. 313; Prerequisite:WRTG. 213) Advanced workshop augments intensive student writing assignments with theory of fiction composition and diverse examples. (GE Area III or IV)

WRTG. 314 Staff

Nonfiction Writing II

3 credits

(Formerly Engl. 312; Prerequisite:WRTG. 214) Advanced workshop augments intensive student writing assignments with discussion and analysis of creative nonfiction by various hands. (GE Area III or IV)

WRTG. 315 Dr. Robbins

Play Writing II

3 credits

(Prerequisite:WRTG. 215) An advanced workshop in playwriting which will include intensive reading and writing, this course will build on skills acquired in Playwriting I, and encourage students to explore theatrical styles beyond realism. This course may be counted toward the Theatre Track or minor.

WRTG. 316 Prof. Hill 3 credits

Poetry Writing II3 credits
(Formerly Engl. 314; Prerequisite:WRTG. 216) Advanced workshop on practice and theory of

writing poetry. The course encourages extensive reading and intensive writing. (GE Area III or IV)

WRTG. 382-383, 482-483

Staff

Guided Independent Study Variable credit

A tutorial program open to Junior and Senior students who have completed appropriate lowerdivision coursework. Context determined by genre and mentor

ENVIRONMENTAL SCIENCE

DR. MICHAEL CANN (Chemistry Department), DR. MICHAEL CAREY (Biology Department), Program Co-Directors

The Environmental Science major is an interdisciplinary program of the Biology and Chemistry Departments at the University of Scranton. The Environmental Science major has the following objectives: 1. to prepare students for entry-level positions (in the public or private sector) in the broad field of environmental analysis, compliance, and technology, 2. to prepare students for advanced study in environmental science, 3. to provide a sufficiently comprehensive science and liberal arts background to allow students to pursue advanced training or work in other fields that deal with environmental issues, e.g., environmental law, environmental health, and environmental regulation in business and industry.

The Environmental Science program provides a rigorous and comprehensive grounding in the biological, chemical, and physical aspects of the natural environment, and in the analytical and instrumental techniques used to investigate environmental problems. As upperclassmen, students may choose to focus more closely on either the chemical or biological aspects of environmental science, and must complete either an undergraduate research project or an internship in environmental science. The program also is designed to expose students to the social, political, regulatory, economic, and ethical concerns that are commensurate with defining and addressing environmental issues in today's world.

The Environmental Science curriculum appears below:

I.Required courses in the major and cognate include courses in Biology, Chemistry, Environmental Science, Natural Science, Math, and Physics. Specific courses and the recommended sequence in which they should be taken are indicated on p. 93

3 credits

II.Electives in the major: the student must complete four courses from among the following; at least one course must be chosen from each group:

Group A	:
CHEM.	

342

344 350	Environmental Geochemistry Biochemistry	3 credits 3 credits
195	Tropical Biology	3 credits
250	Microbiology	4.5 credits
270	Biology of Vascular Plants	4.5 credits
345	Comparative Animal Physiology	3 credits
349	Plant Physiology	5 credits
370	Animal Behavior	4.5 credits
372	Vertebrate Biology	5 credits
471	Applied Ecology	3 credits
472	Systems Ecology	3 credits
473	Marine Biology	5 credits
	350 195 250 270 345 349 370 372 471 472	344 Environmental Geochemistry 350 Biochemistry 195 Tropical Biology 250 Microbiology 270 Biology of Vascular Plants 345 Comparative Animal Physiology 349 Plant Physiology 370 Animal Behavior 372 Vertebrate Biology 471 Applied Ecology 472 Systems Ecology

Environmental Toxicology

III. General Education courses: In fulfilling the G.E. requirements, students are strongly encouraged to enroll in:

PHIL.	213	Environmental Ethics	3 credits
POL.SCI.	230	Environmental Policy	3 credits
ECO.	300	Economics of Environmental Issues	3 credits

Most of the required and recommended courses in the Environmental Science major reside in other departments, and their descriptions can be found under the appropriate departmental listing. Three courses, specific to the Environmental Science program, are described below

ESCI. 440-441 Staff
Topics in Environmental Science 2 credits

(Prerequisite: senior status in ESCImajor or permission of instructor) One credit/semester. Discussions of current and significant environmental science issues

ESCI. 480-481 Staff

Internship in Environmental Science

3 credits

(Prerequisite: senior status in ESCImajor or permission of instructor) 1.5 creditssemester. Student to work with private firm, advocacy group, or governmental agency on an environmental issue or technique that involves application of scientific principles to monitor, test, or developimplement solutions to environmental problems. Project and institutional sponsor subject to approval of the Environmental Science Committee; final project report required

ESCI. 493-494 Staff **Research in Environmental Science** 3 credits

(Prerequisite:senior status in ESCImajor or permission of instructor) 1.5 credit/semester. Individual study and research of a specific environmental problem. Mentored by a biology or chemistry faculty member.

ENVIRONMENTAL SCIENCE

The following is a recommended schedule of coursework

Dept. and No	Descriptive Title of Course			Credits
MAJOR	Chem. 112-113	FRESHMAN General Analytical	FALL	SPRING
	Chemistry I-II	4.5	4.5	
MAJOR	Biol. 141-142	General Biology I-II	4.5	4.5
COGNATE*	Math 103	Pre-Calculus Mathematics	4	
COGNATE	Math 114	Analysis I		4
GE AREA III	Engl. 107	Composition	3	
GE AREA III	Comm. 100	Public Speaking		3
PHYS EDUC	Ph. Ed.	Physical Education	1 17	<u>1</u>
			1/	17
		SOPHOMORE		
MAJOR	NSCI 201	Science and the Human	_	
MAJOR	Cham 222 222	Environment	3	4.5
MAJOR COGNATE**	Chem. 232-233 Phys. 120-121	Organic Chemistry I-II General Physics I-II	4.5 4	4.5 4
GE AREA V	Phil. 120	Intro. to Philosophy	3	7
GE AREA V	Phil. 210	Ethics	-	3
GE AREA V	T/RS 121	Theology I		3
PHYS EDUC	Ph. Ed.	Physical Education	<u>1</u> 15.5	<u>1</u> 15.5
			15.5	15.5
		JUNIOR		
MAJOR	Biol. 371	Ecology	5	_
MAJOR	Biol. 379 Chem. 340	Biostatistics	3	3
MAJOR MAJOR	Chem. 370	Environmental Chemistry Instrumental Analysis	3	5
MAJOR	Elective	Elective		3-5
GE AREA II	Social/Behavioral	Elective	3	
GE AREA II	Social/Behavioral	Elective	3	
GE AREA IV	Humanities	Electives	3	3
GE AREA V	T/RS 122	Theology II		3
			<u>17</u>	17-19
		SENIOR		
MAJOR	Elective	Elective	3-5	3
MAJOR	Elective	Elective	3-5	

MAJOR	ESCI. 480 or 493	Research or Internship i		
MAJOR	ESCI. 481 or 494	Environmental Science Research or Internship i	1.5 n	
		Environmental Science		1.5
MAJOR	ESCI. 440-441	Topics in Environmenta	l Science 1	1
GE AREA II	Social/Behavioral	Elective	3	
GE AREA IV	Humanities	Electives	6	3
GE AREA V	Phil./T/RS	Elective		3
GE FREE	Free	Electives		6
			17.5-21.5	17.5

TOTAL: 134-140 credits

There is NO Minor in Environmental Science

^{*} Students entering exempt from Math 103 may select one of three options: Computer Literacy (CMPS 102) or Computer Science I (CMPS 134)or Analysis II (MATH221)

^{**} Or Elements of Physics I and II (Phys. 141-141)

FOREIGN LANGUAGE AND LITERATURES

DR. PARSONS, Chairperson

The program of the Foreign Language Department is designed to enable students to read, write, speak and comprehend one or more foreign languages; to think and express themselves logically, precisely and critically in one or more foreign languages; to acquire skills in literary criticism by reading representative foreign authors; to gain insight into the evolution of the culture and civilization of foreign peoples as reflected in their literature

The Bachelor of Arts program in Classical Language gives students a solid foundation in Latin and Greek to engender an appreciation of the liberal aspects of Classical Studies. Classics majors are encouraged to take their junior year abroad at Loyola University's Rome Center of Liberal Arts with which the University of Scranton is affiliated

Foreign language majors and students pursuing teaching certification must complete 36 credits in one language beginning with the intermediate level if it is modern, and the elementary level if it is classical. Modern language majors normally take at least 12 credits in a second language, either modern or classical, as their cognate. A double major may be pursued by taking 36 credits in one language beginning with the intermediate or elementary level, and by satisfying the major and cognate requirements of another department. The placement of students at a particular foreign language level is the responsibility of the chairperson

The department urges students to study abroad during their junior year. In addition, it strongly recommends that students who spend the entire junior year abroad plan their studies carefully, so that they will be able to take at least one course per semester in their major language during the senior year.

MODERN LANGUAGES

*PLEASE NOTE: Foreign Languages and Literature courses with a title prefixed by an asterisk meet three hours per week in class and one hour per week independent language lab practice

FRENCH

FRENCH 101-102 Staff

* Elementary French

6 credits

Designed to impart a good basic foundation in comprehending, speaking, reading, and writing of the French language. Designed primarily for students with little or no background in the French language.

FRENCH 203 Dr. Bourcier

French Cultural Heritage

3 credits

This course aims to develop understanding of the culture, literature and civilization of France. Representative readings from different periods. Lectures, discussions, and readings in English

FRENCH 205 Dr. Petrovic

French Masterpieces in Translation

3 credits

The study of selected major works from the leading French writers that have made an important contribution to the development of Western civilization. Such authors as Camus, Flaubert, Baudelaire, Gide, Proust, Malraux and Stendhal will be discussed

FRENCH 211-212 Staff

* Intermediate French

6 credits

(Prerequisites: French 101-102, or equivalent, as determined by placement exam) Designed to give greater scope and depth to the student's knowledge of the grammar and style of the French language. Taught in French.

FRENCH 311-312 Staff

* Advanced French Composition and Conversation

6 credits

(Prerequisite: French 211-212, or equivalent, as determined by placement exam) An intensive course in French composition and conversation with emphasis on detailed study of advanced grammatical and stylistic usage of the French language. Taught in French

FRENCH 313-314 Staff

Survey of French Literature

6 credits

(Prerequisites: French 311-312, or equivalent) A review of French literature from the chanson de geste to the contemporary period

FRENCH 315-316 Staff

* Survey of French Culture and Civilization

6 credits

(Prerequisites: French 311-312, or equivalent) A review of the geography, history, art and other accomplishments that comprise the heritage of the French speaking people world-wide, from Roman times to the present

FRENCH 319 Dr. Bourcier

* Business French

3 credits

(Prerequisites: French 311-312, or equivalent) Overview of the spoken and written language of the French business world. Formalities and conventions of letter writing, banking, import export, and other commercial transactions. Analysis of terminology from business-related areas such as finance, insurance, and international commerce within a contemporary cultural setting

FRENCH 320 Dr. Bourcier

Introduction to French Literature

3 credits

(Prerequisites: French 311-312, or equivalent) An introduction to the principal literary genres of poetry, novel, short story, essay, and drama, through analysis of representative works in the French tradition. Strongly recommended as a prerequisite for all upper-division literature courses in French.

FRENCH 321-322 Staff

* Advanced French Stylistics

6 credits

(Prerequisites: French 311-312, or equivalent) Designed to strengthen the speaking and writing skills while emphasizing the production of speech sounds and their transcription by the

International Phonetic Alphabet. Exercises in enunciation and phraseology, besides a refined usage of grammar and syntax

FRENCH 421 Staff
Medieval and Renaissance French Studies 3 credits

(Prerequisites: French 311-312, or equivalent) Selected literary works from the eleventh century to the late Renaissance.

FOREIGN LA Dept. and No		Descriptive Title of Course FRESHMAN F	ALL	Credits SPRING
MAJOR COGNATE	Language Lang. 101-102 or	Intermediate or Advanced Second Modern or	3	3
GE AREA I	211-212 Nat. Sci./Quant	Classical Language Electives	3 3	3 3
GE AREA III GE AREA V	Communications Phil. 120	Electives Introduction to Philosophy	3 3	3
GE AREA V	T/RS 121	Theology I	4	3
PHYS EDUC	Pn. Ed.	Physical Education	<u>1</u> 16	<u>1</u> 16
MAJOR	Lang. 311-312	SOPHOMORE Advanced Composition and		
COGNATE	Lang. 211-212 or	Conversation	3	3
000117112	311-312	Second Modern or Classical Language	3	3
COGNATE	Lang. 217-Elec.	Introduction to Linguistics*	0	0
GE AREA II	Social/Behavior	-Elec. Electives	3 3	3 3
GE AREA V	Phil. 210	Ethics		3
GE AREA V PHYS EDUC	T/RS 122 Ph. Ed.	Theology II Physical Education	3 1	1
		<u></u>	16	16
		JUNIOR		
MAJOR	Language	Advanced Language Elective	6	6
COGNATE GE AREA II	Elective Social/Behavior	Elective Electives	3 3	3
GE AREA III	Communications	Elective	3	
GE AREA IV GE AREA V	Humanities PhilT/RS	Elective Philosophy or		3
GE FREE	Elective	Religious Studies Elective Elective		3 3
OLTREE	Licotive	Licotive	15	18
		SENIOR		
MAJOR	Language	Advanced Language Elective	6	6
COGNATE GE AREA I	Elective Nat. Sci./Quant.	Elective Elective	3 3	
GE AREA IV	Humanities	Elective	3	3
GE AREA V	PhilT/RS	Philosophy or Religious Studies Elective		3
GE FREE	Electives	Electives	3	3

TOTAL: 127 credits

15

15

^{*} Required for modern language majors seeking certification in secondary education; recommended for Modern Language majors. Language 215 may be substituted

In AREA III, English 107 and Comm. 100 are recommended during freshman year. In AREA IV, Hist. 234-235, 236-237, 325, 329, 330, 333-334 are recommended for modern language majors

Students who begin language at the Advanced (311) level will take 6 credits less in the major and 6 credits more in the Cognate or FREE AREA in either Junior or Senior year

MINOR. A minor in a foreign language, open to students in all disciplines, can be achieved by the completion of 18 credits beginning at the intermediate level if the language is modern, and at the elementary level if it is classical. Students who minor in two languages must complete a total of 24 credits distributed equally among the two languages

Elementary courses in any language are not open to students who have studied two or more years of the same language in high school; exceptions to this policy must be approved by the Language department.

INTERNATIONAL LANGUAGE-BUSINESS

The major in International Language-Business is a professionally oriented program. Its purpose is to make language study a more career-structured discipline by providing students with the opportunity to acquire a liberal education while, at the same time, taking courses specifically relevant to the business enterprise.

In order to bridge the communication gap between multinational business and the lack of functional language skills often exhibited by the personnel representing them, specialized language courses focusing on the business terminology and cultural setting of the countries in question complement the regular language and business courses in this major

The department urges students to study abroad during their junior year. In addition, it strongly recommends that students who spend the entire junior year abroad plan their studies carefully, so that they will be able to take at least one course per semester in their major language during the senior year. Students who pursue a business internship will earn credits in addition to the 130 credits stipulated for the program, unless there is room in the Free Area

MAJOR	Dept. and No. Credits		Descriptive Title of Course		
Advanced Modern Language† 3 3 3			_	ALL	SPRING
COGNATE Lang. 101-102 or 211-212 Second Language 3 3 GE AREA I II Nat. Sci./Quant. Electives* 3 3 GE AREA III Communications Electives 3 3 GE AREA V Phil. 120 Introduction to Philosophy 3 3 GE AREA V T/RS 121 Theology I 3 3 PHYS EDUC Ph. Ed. Physical Education 1 1 MAJOR Lang. 311-312 Advanced Composition and Conversation 3 3 COGNATE Lang. 211-212 or 311-312 Second Language 3 3 MAJOR Acc. 253-254 Financial-Managerial Accounting 3 3 GE AREA II/MAJOR Eco. 153-154 Principles of Micro-Macro Econ. 3 3 GE AREA V Phil. 210 Ethics 3 3 GE AREA V T/RS 122 Theology II 3 PHYS EDUC Ph. Ed. Physical Education 1 1 MAJOR Lang. 321-322 Advanced Stylistics 3 3 MA	MAJOR	Language			2
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GE AREA II Social/Behavior Electives ** 3 3 GE AREA III Cmps. 104 Computing for Business	MAJOR		Prin. of Management		ŭ
GE AREA II Social/Behavior Electives ** 3 3 GE AREA III Cmps. 104 Computing for Business	MAJOR	Eco. 351			0
GE AREA III Cmps. 104 Computing for Business	GE AREA II	Social/Behavior			
and Social Sciences 3			Computing for Busine	SS	_
GE AREA IV Humanities Elective 3	GE APEA IV	Humanities		3	3
GE AREA V PhilT/RS Phil. or Religious	-				3
Studies Elective*** 3			Studies Elective***		
GE FREE Elective Elective 3	GE FREE	Elective	Elective	18	

		SENIOR		
MAJOR	Lang. 319	Business Language	3	
MAJOR	Language	Advanced Language		
	3 3	Electives	3	6
MAJOR	Mkt. 351	Intro. to Marketing	3	
MAJOR	Intnl. Elective	One of Mgt. 475,		
		Mkt. 475, or		
		Eco. 475	3	
GE AREA I	Nat. Sci./Quant.	Elective	3	
GE AREA IV	Humanities	Elective		3
GE AREA V	PhilT/RS	Phil. or Religious		
		Studies Elective		3
GE FREE	Elective	Elective****		3
			15	15

TOTAL: 130 credits

- * Recommend Math 106-107 Quantitative Methods I-II
- * * Recommend Pol. Sci. 212 International Relations as one of these
- * * * Recommend Phil. 211 Business Ethics
- * * * * Recommend Pol. Sci. 240 Political Science Statistics

† Students who begin language at the Advanced (311) level will take 6 credits less in the major and 6 credits more in the Cognate or FREE Area in either Junior or Senior year

FRENCH 423 Dr. Petrovic

XVIIth Century French Studies

3 credits

(Prerequisites: French 311-312, or equivalent) Literary, philosophical, and social expression from 1610 to 1715.

FRENCH 425 Dr. Petrovic

XVIIIth Century French Studies

3 credits

(Prerequisites: French 311-312, or equivalent) The Enlightenment from 1715 to 1789

FRENCH 427 Dr. Petrovic

XIXth Century French Novel

3 credits

(Prerequisites: French 311-312, or equivalent) The development of prose narration as reflected in the literary movements of the age.

FRENCH 429 Dr. Petrovic XIXth Century French Poetry 3 credits

(Prerequisites: French 311-312, or equivalent) The development of poetic forms from the rOLantic to the symbolist movement inclusively.

FRENCH 430 Dr. Hanks

French Women Writers

3 credits

(Prerequisites: French 311-312, or equivalent) Women's view of themselves and the world as reflected in their literary creations. Cross-listed with Women's Studies Concentration (see p. 38).

FRENCH 431 Dr. Petrovic

XXth Century French Novel

3 credits

(Prerequisites: French 311-312, or equivalent) The development of prose narration from the Dreyfus case to the present

FRENCH 432 Dr. Hanks

French Short Story

3 credits

(Prerequisites: French 311-312, or equivalent) Principal practitioners of the short story in France, including contemporary authors.

FRENCH 433 Dr. Petrovic

XXth Century French Drama

3 credits

(Prerequisites: French 311-312, or equivalent) The development of dramatic forms from the Theatre Libre to the present

FRENCH 434 Dr. Hanks

French Novel Into Film

3 credits

(Prerequisites: French 311-312, or equivalent) Examination of the transformations effected in major French novels adapted for the screen, and exploration of alternative solutions to the problems posed.

FRENCH 435 Dr. Bourcier

The French Theater

3 credits

(Prerequisites: French 311-312, or equivalent) An inquiry into the various forms of the French Theater through a study of significant representative works from different periods

FRENCH 436 Dr. Hanks

French Utopias

3 credits

(Prerequisites: French 311-312, or equivalent) An exploration of utopian literature in French, from the sixteenth through the twentieth centuries. Emphasis placed on the literary texts themselves, supplemented by some reading in utopian criticism

FRENCH 482-483 Staff

Guided Independent Study

variable credit

(Prerequisites: French 311-312, or equivalent) A tutorial program open to juniors and seniors only. Content determined by mentor.

GERMAN

GERMAN 101-102 Staff

* Elementary German

6 credits

(Prerequisite: none) A complete course in the fundamentals of the German language. Emphasis on reading of graded texts, with written, oral and aural exercises. Designed for student with little or no background in the German language

GERMAN 211-212 Staff
* Intermediate German 6 credits

(Prerequisites: German 101-102 or equivalent) Reading from modern authors of moderate difficulty. Oral and written exercise. Systematic review of German grammar

GERMAN 213-214 Dr. Kamla

* Introduction to Business German

6 credits

(Prerequisites: German 101-102, or equivalent) Specialized intermediate-level course for students who wish to focus their skills on the language of the business world. Oral and written exercises. Systematic review of German grammar.

GERMAN 311-312 Staff

* Advanced German Composition and Conversation

6 credits

(Prerequisites: German 211-212, or equivalent) Selected texts in prose and poetry. Advanced practice in conversation and composition. Survey of German grammar

GERMAN 313-314 Dr. Kamla

Survey of German Literature and Culture

6 credits

(Prerequisites: German 311-312, or equivalent) A survey of German literature from the eleventh century to the contemporary period, with special emphasis on the main intellectual currents as well as the social and political developments

GERMAN 319 Dr. Kamla

* Business German

3 credits

(Prerequisites: German 311-312, or equivalent) Overview of the spoken and written language of the German business world. Formalities and conventions of letter writing, banking, importexport, and other commercial transactions. Analysis of terminology from business-related areas such as finance, insurance, and international commerce within a contemporary cultural setting

GERMAN 321-322 Staff

* Advanced Stylistics

6 credits

(Prerequisites: German 311-312, or equivalent) Advanced study of syntax and semantics aimed at the development of stylistic sensitivity. Interdisciplinary textual analyses (business and commercial German, communications media, the sciences and humanities) for further practice in composition and conversation.

GERMAN 421 Dr. Kamla

German Classicism and Romanticism

3 credits

Prerequisites: German 311-312, or equivalent) A study of the literature of the 18th (Goethe, Schiller, Holderlin) and early 19th century (Kleist, Hoffmann, Novalis) in their Classical and Romantic contexts.

GERMAN 423 Dr. Kamla

Realism and Naturalism

3 credits

Prerequisites: German 311-312, or equivalent) A study of the works of late 19th century authors, such as Storm, Fontane, and Keller.

GERMAN 425 Dr. Kamla

German Literature up to 1945

3 credits

(Prerequisites: German 311-312, or equivalent) An in-depth study of such authors as Brecht, Mann. Kafka. and Rilke.

GERMAN 427 Dr. Kamla

Postwar German Literature

3 credits

(Prerequisites: German 311-312, or equivalent) Concentration on contemporary authors such as Frisch, Durrenmatt, Grass and Boll, as well as representative authors from East Germany

GERMAN 482-483 Staff

Independent Study Variable Credit

(Prerequisites: German 311-312, or equivalent) A tutorial program open to junior and senior students only. Content determined by mentor.

HEBREW

HEBREW 101-102 Staff Biblical Hebrew 6 credits

A systematic introduction to the fundamentals of Biblical Hebrew grammar and to certain aspects of ancient Semitic language and culture

Note: Additional work in Italian, Japanese, Portuguese, and Russian is available by arranging independent study and/or foreign study.

ITALIAN

ITALIAN 101-102 Staff

* Elementary Italian 6 credits
Introduction to the Italian language. Designed for beginners

ITALIAN 211-212

* Intermediate Italian

6 credits

(Prerequisites: Italian 101-102, or equivalent) Grammatical review, written and oral composition with selected cultural readings of intermediate difficulty.

JAPANESE

JAPANESE 101-102

Staff

* Elementary Japanese

6 credits

Development of the fundamental skills, listening, speaking, reading and writing, with emphasis on language performance. Emphasis on practical application of the basic skills for business related activities. Relevant cultural aspects are introduced. Designed primarily for students with no background in the Japanese language

JAPANESE 211-212

Staff

* Intermediate Japanese

6 credits

(Prerequisites: Japanese 101-102, or equivalent) This course continues development of the four major skills: listening, speaking, reading, and writing. Upon completion of the course students will understand all the basic concepts of the structure of the language

PORTUGUESE

PORTUGUESE 101-102

Dr. Ledford-Miller

* Elementary Portuguese

6 credits

A video-based introduction to Brazilian Portuguese, this course covers basic grammar and vocabulary needed for listening, speaking, reading, and writing Portuguese. Students will also develop some cultural understanding of Brazil and other Lusophone countries

PORTUGUESE 211-212

Dr. Ledford-Miller

* Intermediate Portuguese

6 credits

(Prerequisites: Port. 101-102 or equivalent) A continuation of elementary Portuguese. Students will refine through oral and written activities, the skills learned in 101-102. Literary and other readings as well as films and off-satellite news programs will augment the text

RUSSIAN

RUS 101-102 Staff

* Elementary Russian

6 credits

Primary emphasis on developing the skills of understanding, speaking, reading and writing of Great Russian. A thorough and continual study of the Cyrillic alphabet is an integral part of the coursës content.

RUS 211-212 Staff

* Intermediate Russian

6 credits

(Prerequisites: Rus. 101-102 or equivalent) This course continues development of the four major skills: listening, speaking, reading, and writing. It builds on the grammatical concepts learned in Russian 101 and 102 and provides a solid foundation for the student interested in visiting the Soviet Union and/or in reading the Russian Classics, contemporary literature, and newspapers

SPANISH

SPANISH 101-102 Staff

* Elementary Spanish

6 credits

(Prerequisite: None) Fundamentals of grammar, pronunciation, conversation, suitable readings and written exercises. Designed primarily for students with little or no background in the Spanish language.

SPANISH 211-212 Staff

* Intermediate Spanish

6 credits

(Prerequisites: Spanish 101-102, or equivalent, as determined by placement exam) Grammatical review, written and oral composition with selected cultural readings of intermediate difficulty. Taught in Spanish.

SPANISH 310 Staff

* Medical Spanish

3 credits

(Prerequisites: Spanish 211-212, or equivalent) Designed for the student who plans to work in any area of health care, this course focuses on the needs and problems of Spanish-speaking patients. Students learn specialized vocabulary and improved communicative ability through conversation and composition. Through films and on-site hospital visits, students develop an increased awareness of health issues often of particular concern to Hispanics

SPANISH 311-312 Staff

* Advanced Composition and Conversation

6 credits

(Prerequisites: Spanish 211-212, or equivalent, as determined by placement exam) A thorough study of Spanish grammar, composition, oral and written, with the aim of developing ability to speak and write clear and fluent Spanish. Practice in oral composition. Taught in Spanish

SPANISH 313 Staff

* Spanish Culture and Civilization

3 credits

(Prerequisites: Spanish 311-312, or equivalent) An overview of the diverse historical, political, religious, and artistic factors that have determined the cultural make-up of the peoples of the Iberian peninsula.

SPANISH 314 Staff

- Topics in Latin-American Culture and Civilization

3 credits

(Prerequisites: Spanish 311-312, or equivalent) The course examines the unique cultural and historical features of one specific region (the Andean countries, the Caribbean, Central America, Mexico, or the Southern Cone) and focuses, as well, on the cultural, linguistic, and religious traits shared with the other areas. Content will vary according to the cultural/geographic region examined, and course therefore may be repeated for credit

SPANISH 319 Dr. Parsons

* Business Spanish

3 credits

(Prerequisites: Spanish 311-312, or equivalent) Overview of the spoken and written language of the Spanish business world. Formalities and conventions of letter writing, banking, importexport, and other commercial transactions. Analysis of terminology from business-related areas such as finance, insurance, and international commerce within a contemporary cultural setting

SPANISH 320 Staff

Introduction to Literature

3 credits

(Prerequisites: Spanish 311-312, or equivalent) An introduction to the principal genres of literature (poetry, short story, essay, drama and novel) through analysis of representative works in the Hispanic tradition. Required for all upper-division literature courses

SPANISH 321-322 Staff

* Advanced Stylistics

6 credits

(Prerequisites: Spanish 311-312, or equivalent) Designed to achieve more sophisticated use of Spanish, both verbally and in writing. Includes intensive examination of compositions and

translation exercises, as well as discussion of areas of particular difficulty for the non-native speaker (e.g. false cognates and unfamiliar structures.)

SPANISH 323 Staff

* Contemporary Issues

3 credits

(Prerequisite: Spanish 311-312 or equivalent) A conversation-intensive course. Discussion and reports based on readings in a broad range of current periodicals and focusing on issues of relevance to the Hispanic world and to the particular career or interest areas of students

SPANISH 330 Staff

History of Spanish Literature

3 credits

(Prerequisite: Spanish 320) Study of Spanish literature from Cantar de Mio Cid to XXth century, with emphasis on main literary currents in each century.

SPANISH 331 Staff

Survey of Spanish-American Literature

3 credits

(Prerequisite: Spanish 320) A survey of Spanish-American literature from the 16th century to the present, with representative readings from each of the principal cultural areas

SPANISH 421 Dr. Parsons

XXth Century Spanish Drama

3 credits

(Prerequisite: Spanish 320) Peninsular drama of the XXth century including dramatic forms after Buero Vallejo and new directions of Spanish theater in post-Franco era

SPANISH 422 Dr. Parsons

Spanish-American Drama

3 credits

(Prerequisite: Spanish 320) Spanish American drama from the late XIXth century to the present, with emphasis on contemporary trends

SPANISH 425 Dr. Ledford-Miller

Hispanic Detective Fiction

3 credits

(Prerequisite: Spanish 320) An examination of the two schools of detective fiction (the hard-boiled and the puzzle) in Hispanic literature (short story and novel)

SPANISH 427 Staff

Topics in Spanish Prose

3 credits

(Prerequisite: Spanish 320) Prose fiction of 19th and 20th century Spain. Content may vary and course may therefore be repeated for credit with consent of Department chair

SPANISH 429 Staff

Topics in Spanish-American Prose

6 credits

(Prerequisite: Spanish 320) Prose fiction of Spanish America. Content may vary and course may therefore be repeated for credit with consent of Department chair

SPANISH 430 Dr. Ledford-Miller

Hispanic Women Writers

3 credits

(Prerequisite: Spanish 320) This course examines writing by Hispanic women, including prose, poetry, drama and essays, and investigates the social, political, aesthetic, and feminist contexts of their writing. Cross-listed with Womer's Studies Concentration (see p. 38).

SPANISH 431 Staff

Spanish American Short Story

3 credits

(Prerequisite: Spanish 320) The development of the short story as a literary genre in Spanish America from the beginning of the 19th century to the present

SPANISH 432 Staff

Introduction to Spanish Linguistics

3 credits

(Prerequisites: Spanish 321-322) An introductory approach to the grammatical structure (syntax), word formation patterns (morphology), sound and phoneme structure (phonetics), and the relationship between words and meaning (semantics) in the Spanish language

SPANISH 433 Staff
Hispanic Lyric Poetry 3 credits

(Prerequisite: Spanish 320) The development of lyric poetry in the Spanish-speaking world. Examples of early poetry in Spain and Spanish America are studied to establish an awareness of the Hispanic lyric tradition, but the main focus of the course is on 20th century Spanish America and such figures as Gabriela Mistral, Pablo Neruda, and Cesar Vallejo

SPANISH 434 Staff

History of Spanish

3 credits

(Prerequisites: Spanish 321-322) The course will explore the evolution from Latin to Spanish from the earlier texts of the Middle Ages (10th century) to the 20th century. It will offer an approach to the development of the language from a syntactic, morphological, and phonetic point of view. It will also provide an overview of the different variants found in all Spanish-speaking countries today

SPANISH 435 Staff

The Literature of Social Protest

3 credits

(Prerequisite: Spanish 320) Serious social and political literature in Spain and Spanish America

SPANISH 436 Dr. Parsons

The Hispanic Satirical Tradition

3 credits

(Prerequisite: Spanish 320) An examination of satirical writings beginning with Juan Ruiz, Quevedo, and Sor Juana Ines de la Cruz, and continuing through such modern masters as Pio Baroja, Garcia Marquez, and Juan Jose Arreola

SPANISH 482-483 Staff

Guided Independent Study

Variable Credit

(Prerequisites: Spanish 311-312, or equivalent) A tutorial program open to junior and senior

students only. Content determined by mentor.

CLASSICAL LANGUAGES

GREEK

GREEK 111-112 Staff

Elementary Greek 6 credits

An intensive course in the fundamentals of Classical Greek grammar

GREEK 113-114 Staff

New Testament Greek 6 credits

A systematic introduction to the fundamentals of the grammar of Koine Greek as it is found in the New Testament.

GREEK 205 Dr. Petrovic

Legacy of Greece and Rome

3 credits

Survey of the artistic and cultural treasures of classical Greece and Rome with a focus on their enduring legacy in our own civilization

GREEK 207 Fr. Young

Roots of Greek in English

3 credits

The relationship of both Greek and English to the other languages of the Indo-European family; the Greek elements that have come into English are presented: e.g., bases, prefixes, numerals, hybrids, etc. A study of the 20-25% English words which come from Greek, particularly in scientific fields.

GREEK 211-212 Staff

Intermediate Greek 6 credits

(Prerequisites: Greek 111-112 or equivalent) Review of fundamentals. Readings from Zenophon, Euripides, and the New Testament

GREEK 213 Dr. Wilson

Classical Greek Literature and Mythology

3 credits

This course examines the role that mythology played in Greek literature, and examines the changing attitudes of the Greeks towards the Olympian gods from Homer to the 4th century B.C. All readings and lectures in English

GREEK 220 Dr. Wilson

Ancient Civilization: Greece

3 credits

The political, constitutional, and cultural history of Greece from the earliest times to the death of Alexander the Great. All readings and lectures in English

GREEK 311-312 Staff

Readings in Greek Literature

3-6 credits

(Prerequisites: Greek 211-212 or equivalent) Selections from Greek writers to suit the student's special interests.

GREEK 482-483 Staff

Guided Independent Study

Variable Credit

(Prerequisites: Greek 211-212 or equivalent) A tutorial program open to junior and senior students only. Content determined by mentor.

LATIN

LATIN 111-112

Elementary Latin 6 credits

An intensive course in the fundamentals of Latin. Reading and composition

LATIN 205 Fr. Young

History of Latin Literature

3 credits

A survey of Roman and post-Roman Latin Literature. The course is taught in English. No Latin prerequisite.

LATIN 207 Fr. Young Roots of Latin in English 3 credits

The relationship of both Latin and English to the other languages of the Indo-European family; the Latin elements that have come into English are presented: bases, prefixes, numerals, hybrids, etc. Approximately 60-65% of English words come from Latin

LATIN 211-212

Intermediate Latin 6 credits

(Prerequisites: Latin 111-112 or equivalent) Review of fundamentals. Reading of selections from Caesar, Cicero and Virgil.

LATIN 213 Dr. Wilson

Classical Roman Literature and Mythology

3 credits

The course examines the role that mythology played in Roman literature, and examines the changing attitudes of the Romans toward the divinities manifested in literature from Plautus to Apuleius. All readings and lectures in English

LATIN 220 Fr. Young
Ancient Civilization: Rome 3 credits

The political, constitutional, and cultural history of Rome from the earliest times to the end of the Western empire. All readings and lectures in English

LATIN 311-312 Dr. Wilson

Readings in Latin Literature

3-6 credits

(Prerequisites: Latin 211-212 or equivalent) Selections from Latin writers to suit the students special interests. Topics will vary from year to year; the course may, therefore, be repeated for credit.

LATIN 482-483 Staff

Guided Independent Study

Variable Credit

(Prerequisites: Latin 211-212) A tutorial program open to junior and senior students only. Content determined by mentor.

LINGUISTICS

LANG. 215
World of Language
3 credits

(No prerequisite) Designed to provide students with a broad overview of the nature and function of languages. Topics include theories on the origin of languages, evolution and change in language, the importance of language in human society, culture, contemporary politics, and the business world; and identifying successful approaches to language study

LANG. 217 Dr. Bourcier Introduction to Linguistics 3 credits

(No prerequisite) Inquiry into the nature of language, its various systems manifested by the principal languages of the world. Principles of structural analysis. Open to language and non-language majors.

LITERATURE

LIT 205 Staff

Modern Latin-American Literature in Translation

3 credits

A survey in English of 20th century Latin American writers, including Gabriel Garcia Marquez (Colombia), Jorge Luis Borges (Argentina), Rigoberta Menchu (Guatemala), Carlos Fuentes (Mexico), Joaquim Maria Machado de Assis (Brazil) and Isabel Allende (Chile). Introduction to major literary movements, such as the "Boom" and "magical realism," which have influenced writers in the US, Europe and elsewhere

LIT 206 Dr. Ledford-Miller

Travelers and Their Travels

3 credits

An examination of the history and literature of travel as expressed in a variety of both fictional and non-fictional accounts.

LIT 207 Dr. Ledford-Miller

Literature of American Minorities

3 credits

(Formerly INTD 107) Examination of racial and ethnic groups from the settlement of America until present day. Examination of the historical context and current situation of Native Americans, Afro-Americans, Hispanic Americans, Asian Americans, Women-as-minority, and other marginalized groups. Readings from literature and other disciplines. Cross-listed with Women's Studies Concentration (see p. 38).

LIT 209 Dr. Petrovic
Masterworks of Russian and Slavic Literature 3 credits

(Formerly Slav. 207) A survey of major literary achievements of Slavic peoples. Dostoyevsky, Tolstoy, Cosic, Sienkiewicz and Solzhenitsyn will be read. No knowledge of Slavic languages is required. All readings and lectures are in English. (GE AREAIV)

HISTORY

DR. DeMICHELE, Chairperson

The department aims: 1. to train the student in solid historical methodology; 2. to present history as the study of interdependent human activities and concrete events which have social significance; 3. to engender an intelligent and critically sympathetic understanding of various civilizations and cultures.

The department offers a special program that enables qualified students to obtain both their Bachelor and Master's degrees within four calendar years. The program utilizes Intersession or summer sessions and the use of four graduate courses as part of the undergraduate program. The chairperson of the department should be contacted for details of the program

See the Pre-Law section earlier in the catalog for details of the departments success in this area.

Dept. and No.		Descriptive Title of Course			
	Credits				
		FRESHMAN	FALL	SPRING	
MAJOR	History 120-121	Europe: 1500 to Present	3	3	
MAJOR	History 110-111	United States History	3	3	
COGNATE	Electives	Electives *	3	3	
GE AREA III	Communications	Electives *	3	3	
GE AREA V	Phil. 120	Introduction to Philosophy	3	0	
GE AREA V	T/RS 121	Theology I	1	3	
PHYS EDUC	Pn. Ea.	Physical Education	16	<u> </u>	
			10	10	
		SOPHOMORE			
MAJOR	History	Electives *	3	3	
COGNATE	Electives	Electives *	3	3	
GE AREA I	Nat. Sci./Quant.	Electives	3	3	
GE AREA III	Communications	Elective	3		
GE AREA V	Phil. 210	Ethics		3	
GE AREA V	T/RS 122	Theology II	3		
GE FREE	Elective	Elective			
PHYS EDUC	Ph. Ed.	Physical Education	11	1	
			16	16	
		JUNIOR			
MAJOR	History	Electives	3	3	
COGNATE	Electives	Electives	3	3	
GE AREA I	Nat. Sci./Quant.	Elective	3	3	
GE AREA II	Social/Behavior	Electives	6	3	
GE AREA V	Phil-T/RS	Philosophy and/or	•	_	
		Religious Studies	3	3	
GE FREE	Elective	Elective		3	
			<u>18</u>	15	
		SENIOR	_		
MAJOR	History#	Seminars/Electives	6	6	
COGNATE	Electives	Electives*	3	3	
GE AREA II	Social/Behavior	Elective	3 3	•	
GE AREA IV GE FREE	Humanities Elective	Electives Elective	3	3 <u>3</u>	
GEFREE	Elective	Elective	15	<u>s</u> 15	

TOTAL: 127 credits

- Students may use cognate electives to develop a second major
- ** Unless exempted from the University requirements, students are to take Comm. 100 and Engl. 107.
- *** Department recommends History 140, Research Methods, for sophomore History majors; students admitted to 4-year BA/MA Program are required to take History 500, Research Methods. No student should take both Research Methods courses
 - # Senior History majors are recommended to take Hist. 490 or Hist. 491

MINOR. A minor in History (18 credits) should include History 110, 111, 120 and 121 plus any two additional history courses.

DOUBLE MAJORS between History and any other major in the HistoryPolitical Sciance department require that none of the 36 credits in the first major be applied toward the major requirements of the second major.

HIST. 110-111 Staff

History of the United States

6 credits

The United States from the time of its European beginnings to the present with special emphasis on the history of Pennsylvania; colonial origins to Reconstruction; Gilded Age to the modern era

HIST. 120-121 Staff

Europe, 1500 to the Present

6 credits

European history with concentration upon the political aspects of European development. The rise of national monarchies; political, social, economic, and intellectual developments; industrialism, the new nationalism and liberalism.

HIST. 140 Dr. Homer

Research Methods: The Historian at Work

3 credits

Introduction to the techniques of historical research including the use of library and bibliographical materials, the use and interpretation of evidence, and the preparation of written papers. Course is designed to assist any student, regardless of major, who wishes to improve research and term paper skills.

HIST. 210 Dr. Homer

History as Biography

3 credits

An exploration of the nature of biography and its relationship to the study of the past. Biographies of several major figures from the modern era will be read and studied to exemplify different biographical techniques and their utility as means of historical inquiry

HIST. 212 Dr. DeMichele

Rebels, Robbers, Rogues

3 credits

A sociological cross-cultural, and psychohistorical approach to those folk heroes, political "expropriators" and bandits whose spectacular exploits have been romanticized and preserved through the centuries. Figures such as Robin Hood, Cartouche, Pancho Villa, Jesse James, Che Guevara and others will be considered

HIST, 213 Dr. DeMichele

Great Discoveries

World Politics

3 credits

Historical analysis and assessment of the great scientific discoveries and technological developments of mankind from the Age of the Renaissance to the Space Age

HIST 213 Staff

Modern Africa 3 credits An introduction to the vast and diverse continent of Africa. Attention to the history, geography,

An introduction to the vast and diverse continent of Africa. Attention to the history, geography, ecology and culture of the various African states with a focus on understanding the political systems of Africa in a comparative perspective

HIST 214 Dr. DeMichele

(See description under Political Science.)

3 credits

HIST. 215 Prof. Buckley

Modern Economic History

3 credits

A comparative approach to the historical economic development of Europe and America from early modern to modern times including a study of economic principles, theories and issues

HIST 215 Dr. Homer

War and Modern Society

3 credits

(See description under Political Science.)

HIST 216

Dr. Harris
3 credits

Gender and the Work Force

(See description under Political Science.)

H/Geog 217 Dr. Conover

Cultural Geography

3 credits

Study of the influence of geography on the origin, structure, and spread of culture. Focuses on describing and analyzing the ways language, religion, economy, government and other cultural phenomena vary or remain consistent from place to place

HIST. 218 Dr. Earl

Total War 3 credits

Examination of the tactics, strategy, and global significance of World War II. The logistics and scope of the conflict. Importance of propaganda, patriotism and the people. Film-seminar approach. Film fee.

HIST, 221 Dr. Conover

The American West

3 credits

A study of acquisition, settlement, and development of the Trans-Mississippi West, including the mining, cattleman's and farmers' frontiers; Indian removal, and Manifest Destiny in Texas and Oregon.

HIST. 222 Dr. Champagne

History of American Presidential Elections

3 credits

A study of the candidates, issues and campaigns in American Presidential elections from Washington to Kennedy. The course will also examine the evolution of the electoral process and the relationship between political parties

HIST. 223 Dr. Buckley

History of Modern Ireland

3 credits

A critical introduction to modern Irish history covering Act of Union, the Great Famine, Home Rule, the Irish contribution to "Modernism" in literature and drama, and the politics of Disunion since 1921. Particular note of social and economic changes in relation to contemporary political movements.

HIST 224 Drs. Earl, DeMichele

Ethnic & Racial Minorities in Northeastern Pennsylvania

3 credits

Film-seminar approach to study of various ethnic groupings in Northeastern Pennsylvania. Seeks to achieve better understanding of the immigrant's problems and his accomplishments through use of documentary and feature films.

HIST, 225 Dr. Earl

Imperial Russia

3 credits

From the crystallization of political forms in the 9th century through the Kievan State, Mongolian Invasion, rise of Muscovy to the Eurasian Empire from the 17th to the end of the 19th century

HIST, 226 Dr. Earl

Russian Revolution and Aftermath

3 credits

A study of the development of radical thought in 19th and 20th century Russia. Analysis of various factors and forces at work in revolutionary Russia. Lenin, War Communism, NEP, Stalin

HIST 227 Dr. Earl Soviet Foreign Policy 3 credits

See description under Political Science.)

HIST. 228-229 Fr. Scott

Ancient History 6 credits

The rise of civilization in Mesopotamia, Egypt, the Indus Valley and the Mediterranean world; growth of civilization in China and India; the rise of Greece and Hellenism; Rome from Republic to Empire; the barbarians and the end of ancient culture; the origins of Christianity; pre-Colombian civilization in the New World

HIST. 230-231 Fr. Scott
Medieval History 6 credits

The civilization of medieval Christendom from the fall of the Roman Empire to the beginning of the fourteenth century; its religious, social, economic, cultural and political aspects; the relationship between church and society, belief and life style, ideal and reality; the interaction between Western Christendom, Byzantium and Islam

HIST. 232 Dr. DeMichele

England, 1485 to 1714

3 credits

The end of the Wars of the Roses; Tudor Absolutism, Henry VIII and Reformation; Elizabeth I; Renaissance and Elizabethan Music and Literature; The Stuarts; Colonialism; Commonwealth; Restoration; the Revolution of 1688; Reign of Anne

HIST, 233 Dr. DeMichele

England, 1714 to Present

3 credits

Parliamentary rule; Cabinet government; Political parties; Industrial Revolution; 19th Century reforms; building of a British Empire; World War I; problems of readjustment; World War II; Britain and the world today.

HIST. 234-235 Prof. Williams

Latin America History

6 credits

(Prerequisite: for Hist. 234, Hist. 120; for Hist. 235, 234) Pre-Colombian America; the Spanish and Portuguese Colonial area, developments to the early nineteenth century. The Latin American Republics, Castroism, The Alliance for Progress, with special stress on inter-American problems

HIST. 236 Dr. Homer

Modern Germany: Unification & Empire

3 credits

The 1815 Confederation; 1848 and the failure of liberalism; the Age of Bismarck; Wilhelm II and the "New Course," World War I and the Collapse of the Empire

HIST. 237 Dr. Homer

Modern Germany: the 20th Century

3 credits

The troubled birth of the Weimar Republic: the Ruhr Crisis; the Stresemann Era; economic collapse and the rise of Nazism; the Third Reich, and World War II; the two Germanies and the "economic miracle."

HIST. 238 Dr. Poulson

History of American Women: From Colonization to Mid-19th Century

3 credits

A study of American women from the colonial era to the mid-nineteenth century. Changes in the family, the workforce, women's participation in politics and reform movements, and Native-American and African-American women

HIST 238 Prof. Williams

The Third World

3 credits

A study of the developing nations with the developed industrial nations in the contemporary world

HIST. 239 Dr. Poulson

History of American Women: From Mid-19th Century to the Present

3 credits

A study of American women since the mid-nineteenth century. The effects of industrialization on the family, women's participation in the workforce, the Depression and the family, women and war, the feminist movement, and the conservative response

HIST 295 Dr. DeMichele

Britain: Past and Present

3 credits

Combines with travel experience in Great Britain to introduce the student to the major historical, cultural, political, economic and social events in Britain's past and present.

HIST. 310 Dr. Champagne

Colonial America, 1607-1763

3 credits

The European background of the Age of Discovery; the founding of the British-American colonies; their political, economic and cultural development; British colonial policy and administration; the development of an American civilization

HIST. 311 Dr. Champagne

American Revolution, 1763-1789

3 credits

Background to the War for Independence; British imperial policy; the development of economic and ideological conflicts; the military contest; British ministerial policy and the parliamentary opposition; the Confederation; the formation of the Constitution

HST. 312 Dr. Champagne

The Early National Period of American History, 1789-1824

3 credits

Beginning of the New Government; Politics and diplomacy in the Federalist Era; Jeffersonian Democracy; the War of 1812; Nationalism and Sectionalism, Marshall and the rise of the Supreme Court.

HIST. 313 Dr. Champagne

The Age of Andrew Jackson, 1824-1850

3 credits

Politics and Society in the Jacksonian Era, Slavery and the Antislavery Crusade, American Expansion in the 1840's; the Mexican War; the Emergence of the Slavery Issue

HIST. 314 Fr. Masterson

Civil War & Reconstruction

3 credits

Crisis Decade, disintegration of national bonds; The War: resources, leadership, strategy, politics, monetary policy, diplomacy; Reconstruction: realistic alternatives, Presidential and Congressional phases, effects in North and South

HIST. 315 Dr. Kennedy

The Emergence of Modern America: 1900-1929

3 credits

A study of American development from 1900-1929. The focus will be on the rise of American economic power; the Progressive era; American entry into World War I; post-war diplomacy; and the "return to normalcy."

HIST 316 Dr. Poulson

From Depression to Cold War: 1929-1960

3 credits

A study of American society from the Great Depression to the election of 1960. The course will focus on the New Deal; American entry into World War II; the origins of the Cold War; and America in the age of "consensus".

HIST. 317 Dr. Hueston

History of United States Immigration

3 credits

(Prerequisites: Hist. 110 & 111) A study of immigration to the United States with emphasis on the period from the Revolution to the restrictive legislation of the twentieth century. Motives and characteristics of immigration. Experiences of newcomers

HIST 317-318 Dr. Kocis

American Constitutional and Legal History

6 credits

(See description under Political Science.)

HIST. 318 Dr. Hueston

A History of American Assimilation

3 credits

(Prerequisites: Hist. 110 & 111) The history of assimilation (or adjustment) of immigrants to American life. Nativism from pre-Civil War days to the 1920's. The "Old Immigration" and the "New Immigration" considered in the social, political, economic, and religious contexts of their eras. Special problems of the second generation from the 1850's to the 1960"s.

HIST. 319-320 Fr. Scott

Byzantine Civilization

6 credits

The Byzantine Empire from its origins in the Fourth century to its collapse in the 15th; the political and economic growth of the Empire with emphasis on its art and religion

H 319-320 Dr. Hueston

American Diplomatic History

6 credits

(Prerequisites: History 110 & 111) A study of American diplomatic history and principles. The Revolution. Early American policies on isolation and expansion. The War of 1812. The Monroe Doctrine. Manifest Destiny. The Civil War. American imperialism and the Spanish-American War. Latin American diplomacy in the twentieth century. World War I. Attempts to preclude further war. World War II. Cold War. Contemporary problems

HIST. 321-322 Dr. Hueston

American Ideas and Culture

6 credits

(Prerequisites: History 110 & 111) History of American art, architecture, literature, and thought. Colonial Developments. The American Enlightenment. The emergence of a national culture. Romanticism. Post-Civil War. Realism in American art and literature. The intellectual response to the industrial order. The American mind in the 1920's. The intellectual and cultural response to the depression. Post-World War II developments

HIST. 323-324 Fr. Scott

Renaissance and Reformation

6 credits

Europe in transition from medieval to modern (from the beginning of the fourteenth century to the middle of the seventeenth century); the decline of medieval civilization; the Renaissance, the shattering of Christian unity in the Protestant Reformation; the Catholic response; the age of exploration; the struggle for empire

HIST. 325 Prof. Williams

French Revolution to 1815

3 credits

(Prerequisite: History 120) Historical antecedents; the philosophies; the republicanism and the fall of the monarchy; Reign of Terror; the Directory; Napoleon; internal achievements; significance of the Spanish and Russian Campaigns; and War of Liberation

H/PS 326 Dr. Parente
Modern China 3 credits

Study of modern Chinese history and politics in the 19th and 20th centuries. Problem of modernization, Westernization, communism and contemporary political system in the People's Republic of China.

HIST. 326 Dr. Homer

Europe in the Age of Absolutism

3 credits

(Recommended for Background: History 120) A study of the major political, social, economic and intellectual movements in Europe from the rise of royal absolutism until the outbreak of the French Revolution.

HIST. 327-328 Fr. Scott

France, **1814-1940** 6 credits

France from the fall of Napoleon; the constitutional monarchies, the Second Republic, the Second Empire, and the Third Republic. The principal cultural movements of the period are covered, along with the political, social, and economic factors

H/PS 327 Dr. Parente

Modern Japan 3 credits

(See description under Political Science)

HIST. 329 Prof. Williams

Europe, 1815-1875

3 credits

(Prerequisite: Hist. 121) The congress of Vienna and the European restoration; Industrialism, Liberalism, Socialism, and Nationalism; the revolutions of the 1840s; the unification of Italy and the German Empire; Russia and the Lesser States of Europe; the Third French Republic

HIST. 330 Prof. Williams

Europe, 1875-1918

3 credits

(Prerequisite: Hist. 121) The domestic problems confronting France, Italy, Germany, Central and Eastern Europe, and Russia. Competition for colonies and markets; the growth of alliances; World War I and the Treaty of Versailles. The Russian Revolution and Communism

HIST. 331 Dr. Poulson

Recent U.S. History: 1960 to the Present

3 credits

A study of American society since 1960. The course will focus on the New Frontier and Great Society; the Vietnam War; protest movements; Watergate; and the conservative response to these developments.

H/PS 331 Dr. DeMichele

English Constitutional and Legal History to 1485

3 credits

Anglo-Saxon basis; fusion of Anglo-Saxon and Norman political institutions; Angevin innovations; Magna Carta; concept of representation; beginnings of the Common Law; jury system; emergence of Parliament.

H/PS 332 Dr. DeMichele

English Constitutional and Legal History, 1485 to Present

3 credits

Tudor absolutism, struggle between royal prerogative and Parliament; rise of House of Commons; Parliamentary supremacy after 1688; development of Cabinet government; democratic reforms; Parliamentary Bill of 1911; extension of administrative law

HIST. 332 Dr. Kennedy

America in the Gilded Age

3 credits

(Recommended for background:History 111) American society in the late nineteenth century with special attention to such topics as: the rise of big business and industrial conflict; immigration and growth in the cities; the Populist movement; and the Spanish-American War

HIST, 333-334 Dr. Earl

Twentieth Century Europe

6 credits

World War I Treaty of Versailles; Russia becomes the USSR; the European struggle for security; Italian Fascism; Rise of Nazi Germany; Asia between the two wars. World War II, loss of colonial empires in Africa and Asia; development of the Cold War; Marshall Plan and NATO

HIST. 335 Prof. Williams

World War II, Cold War & Detente

3 credits

The diplomacy of World War II; the development of the Cold War between the U.S. and the U.S.S.R. and the adoption of the policy of Detente

HIST. 336 Atty. Rosenberg

History of American Law

3 credits

(Prerequisite: H110 and H111) Traces the history of ideas and concepts utilized by the courts, legislature, organized bar and administrative agencies to solve legal problems: and shows how American legal thought and reasoning developed from Colonial days to the present

H/PS 338 Dr. Parente

Politics of Islam 3 credits

(See description under Political Science.)

HIST. 490 Staff

Seminar in European History

3 credits

(Restricted to Senior History Majors and 4-year BAMA History students) An analysis of selected topics in European history from the fifteenth to the twentieth century. Extensive readings. Historical research and writing stressed

HIST. 491 Staff

Seminar in American History

3 credits

(Restricted to Senior History Majors and 4-year BAMA History students) An analysis of selected topics in American history from the Colonial era to the present. Extensive readings. Historical research and writing stressed

MATHEMATICS

DR. PERDEW, Chairperson

The mathematics program balances algebra vs. analysis in its basic courses and pure vs. applied mathematics (including probability and statistics) in its advanced courses. Supporting courses balance traditional physics vs. contemporary computer science. Graduates have great flexibility: some continue study in mathematics or related fields, some teach, some become actuaries, and some work in jobs which vary from programming to management. A student chapter of the Mathematical Association of America encourages early professionalism

Dept. and No.		Descriptive Title of Course			
	Credits				
MAJOR COGNATE	Math 142-114 Elective	FRESHMAN Discrete-Analysis 1 Elective	FALL 4	SPRING 4 4	
GEAREAIII	CMPS 134	Computer Science I	3		
GE AREA III GE AREA IV GE AREA V	Communications Humanities Phil. 120	Electives Electives Intro. to Phil.	3 3 3	3	
GE AREA V PHYS EDUC	T/RS 121	Theology 1 Physical Education	3 1	1	
FIII 3 LD0C	rii. Lu.	r nysicai Education	17	18	
		SOPHOMORE			
MAJOR MAJOR	Math 221-222 Math 351	Analysis II-III Linear Algebra	4	4 3	
COGNATE	Phys. 140-141	Elements of Phys. I-II	4	4	
GE AREA II GE AREA IV	Soc./Behavior Humanities	Electives Elective	3	3	
GE AREA V	T/RS 122	Theology II	3	· ·	
PHYS EDUC	Ph. Ed.	Physical Education	<u>1</u> 15	<u>1</u> 18	
			13	10	
MAJOR	Math 446	JUNIOR Real Analysis 1	3		
MAJOR	Math 448	Modern Algebra	3		
MAJOR COGNATE	Math Elec Electives	Electives Electives	3	6/7 3	
GE AREA II	Soc./Behavior	Electives		3	
GE AREA V	Phil. 210	Ethics	3 3 3	0	
GE FREE	Electives	Electives	3 18	3 15/16	
			<u> </u>		
MAJOR	Math 312	SENIOR Probability	3		
MAJOR	Math Elec.	Electives	3	6	
COGNATE	Electives	Electives	3	3	
GE AREA IV GE AREA V	Humanities PhilT/RS	Electives Phil. &/Or T/RS	3 3	6 3	
		· -	15	18	

TOTAL: 134/135 credits

Electives for Mathematics majors: Major electives are selected from mathematics courses numbered above Math 300; also Phys 350, Phys 351, Cmps 362 or Cmps 364. A student must select as an elective at least one of the following: Math 314, 447, 460, 461, or 462. Additional courses numbered under Math 300 may be taken as free electives but not as major electives.

Cognate electives must be used to complete a minor, a concentration, a second major, secondary education certification, or a package of courses pre-approved by the department

MINOR. Mathematics minor must include Math 114, 221, 222, and 351 and two additional electives chosen from mathematics courses numbered over 300 or Phys 350

The results of the placement tests administered during freshman orientation assist students and their advisors in choosing the proper beginning level mathematics sequence and the proper entry level within that sequence. If a course is a prerequisite for a second course, directly or indirectly, and a student receives credit for the second course then that student will not be allowed to register for the prerequisite course.

MATH 005

Algebra 3 credits

A study of algebra including factoring, exponents, radicals, graphing, and linear and quadratic equations. Enrollment is restricted to Dexter Hanley College students who are limited in algebra skills. Permission of the Dean of the Dexter Hanley College is required in order to enroll in this course. Credits count only as free elective

MATH 101-102

Mathematics Discovery

3 credits each

Fundamental ideas of mathematics are used to encourage an appreciation of the influence of mathematics in our society. Topics exploring various aspects of mathematical reasoning and modeling are selected by the instructor in the effort to bring the excitement of contemporary mathematical thinking to the nonspecialist. Not open to students with credit for any mathematics course numbered above 102.

MATH 103

Pre-Calculus Mathematics

4 credits

An intensified course covering the topics of algebra, trigonometry, and analytic geometry. Not open to students with credit for Math 109 or any calculus course

MATH 104

Mathematics for Elementary Teachers

3 credits

Development of the mathematical skills needed for teaching mathematics at the elementary level. Concepts, processes, and applications of elementary mathematics. Open only to elementary education majors.

MATH 106

Quantitative Methods I

3 credits

Topics from algebra including exponents, radicals, linear and quadratic equations, graphing, functions (including quadratic, exponential and logarithmic) and linear inequalities. Not open to students with credit for Math 103 or Math 109

MATH 107

Quantitative Methods II

3 credits

(Prerequisite: Math 106 or equivalent) Topics from differential calculus including limits, derivatives, curve sketching, marginal cost functions, and maximum-minimum problems. Integration. Not open to students with credit for Math 114.

MATH 108

Quantitative Methods III

3 credits

(Prerequisite: Math 107 or 114) Topics from integral calculus including the definite and indefinite integral, techniques of integration, and multivariable calculus. Not open to students with credit for Math 221.

MATH 109

Quantitative Methods in the Behavioral Sciences

4 credits

The mathematics necessary for elementary statistics: algebraic rules, logic, equations, functions, area and linear regression. Particular attention paid to lines, parabolas, reciprocals, square roots, logarithms and exponentials. Intended for students from psychology and related disciplines. Not open to students with credit for Math 103

MATH 114

Analysis I 4 credits

(Prerequisite:Math 103 or equivalent) The beginning of a twelve credit sequence covering the topics of calculus and analytic geometry. Limits, differentials, integration. Fundamental Theorem. Prerequisite Math 103 or equivalent

MATH 142

Discrete Structures 4 credits

A study of symbolic logic, sets, combinatorics, mathematical induction, recursion, graph theory and trees. Intended for mathematics, computer science, and computer information systems majors, but open to other qualified students.

MATH 184-284-384-484

Special Topics 1-4 credits each

Topics, prerequisites, and amount of credit will be announced prior to preregistration

MATH 202

History of Math 3 credits

Important mathematical discoveries in their historical context; the works of some prominent mathematicians and the practical significance of their accomplishments. (GE AREA I only)

MATH 204

Special Topics of Statistics

3 credits

Study of the computational aspects of statistics; hypothesis testing, goodness of fit; nonparametric tests; linear and quadratic regression, correlation and analysis of variance. (GE Area I only)

MATH 221

Analysis II 4 credits

(Prerequisite: Math 114) Topics include: applications of the definite integral, Transcendental functions, methods of integration, improper integral, parametric equations, polar coordinates, and indeterminate forms.

MATH 222

Analysis III 4 credits

(Prerequisite: Math 221) Topics include: infinite series, vectors, solid analytic geometry, multivariable calculus, and multiple integration

MATH 312

Probability Theory

3 credits

(Prerequisite: Math 221) Basic concepts of probability theory, random variables and their distribution functions; limit theorems and Markov chains

MATH 314

Statistics 3 credits

(Prerequisite: Math 312) Measure of central tendency, measure of dispersion, continuous random variables, expected value, moments, confidence intervals, hypothesis testing, regression, and correlation.

MATH 330

Actuarial Mathematics

3 credits

(Prerequisite: Math 221) Theory of interest, accumulation and discount, present value, future value, annuities, perpetuities, amortizations, sinking funds, and yield rates

MATH 341

Differential Equations

4 credits

(Prerequisite: Math 222) Treatment of ordinary differential equations with applications

MATH 345

Geometry 3 credits

Euclidean, non-Euclidean, and projective geometry. Transformations and invariants

MATH 346

Number Theory 3 credits

(Prerequisite: Math 114) Topics include divisibility, the Euclidean Algorithm, linear diophantine equations, prime factorization, linear congruences, some special congruences, Wilson's theorem, theorems of Fermat and Euler, Euler phi function and other multiplicative functions, the Mobius Inversion Formula.

MATH 351

Linear Algebra 3 credits

(Corequisite: Math 222) Vector spaces, matrices, determinants, linear transformations, eigenvalues, eignevectors, inner products, and orthogonality

MATH 430

History and Philosophy of Mathematics

3 credits

(Prerequisite: Math 222 plus six credits of mathematics numbered 300 or above) A study of the history of mathematics with emphasis on twentieth century issues. Writing intensive

MATH 446

Real Analysis I

3 credits

(Prerequisite: Math 222) Topics include: the algebra and topology of the real numbers, functions, sequences of numbers, limits, continuity, absolute and uniform continuity, and differentiation

MATH 447

Real Analysis II

3 credits

(Prerequisite: Math 446) Selections from: integration theory, infinite series, sequences and infinite series of functions, and related topics

MATH 448

Modern Algebra

3 credits

(Prerequisite: Math 351) Fundamental ideas and properties of groups, rings, fields, and polynomials over a field.

MATH 460

Topology

3 credits

(Prerequisite: Math 446) Topological spaces: connectedness, compactness, separation axioms, and metric spaces.

MATH 461

Complex Variables

3 credits

(Prerequisite: Math 222) The theory of complex variables: the calculus of functions of complex variables, transformations, conformal mappings, residues, and poles

MATH 462

Vector Calculus

3 credits

(Prerequisites: Math 222 and 351) The calculus of scalar and vector fields and of functions defined on paths or surfaces. Implicit Function, Green's, Strokes; and Gauss' Theorems. Applications.

INTD 224 Dr. Dutko

Science, Decision Making and Uncertainty

3 credits

A study of decision making as it relates to scientific and public policy matters. The course covers philosophical, mathematical, and psychological aspects of decision making in the face of uncertain evidence. Topics include the nature of scientific evidence; probabilistic evidence and the law; uncertainly and medicine; and other issues such as nuclear power, waste disposal, and strategic nuclear planning. Readings taken from contemporary sources. (GEAreas I, II, V)

MILITARY SCIENCE

(Army Reserve Officer Training Corps)

MAJ. STRIBRNY

The primary objective of the ROTC program is to develop leadership capabilities and to train future officers for both the active and reserve components of the United States Army

Military Science instruction for University of Scranton students is offered on campus through the Military Science Department. Two-year and four-year programs are offered, both of which lead to a commission as an officer in the United States Army. To obtain this commission, qualified male or female students must pass an aptitude test and a physical examination and complete either the two- or four-year program of approved Military Science courses. While contracted in the Advanced Courses (Military Science III and IV), the student will receive \$100 per month subsistence allowance. Uniforms, equipment, and textbooks required for Army ROTC classes will be supplied by the Army. Students may compete for Army ROTC scholarships while in high school (4-year awards), or during college (3-year awards). Nursing students are eligible to compete for 4, 3, and 2 year scholarships. Scholarships pay the greater of \$8,000 or 80% of tuition, textbooks, lab, and other academic fees, plus a subsistence allowance of up to \$1000 each school year

Students qualify for entry into the advanced ROTC course (2-year program) in three ways:

- (1) On Campus Courses: Most students take introductory military science courses on campus during their freshmen and sophomore years. These courses allow them to learn about the Army and the opportunities and responsibilities of an officer without incurring an obligation. This "basic" program generally involves one course per school semester
- (2) Summer Programs: Students may also qualify through a paid, six-week, no obligation summer "Camp Challenge" which provides intensive military training at Fort Knox, Kentucky
- (3) Advanced Placement: Students with prior military service, members of the United States Army Reserve or National Guard, or Junior ROTC members may qualify for advanced placement into the advanced Army ROTC course with approval of the Department Chair

TWO YEAR PROGRAM: Available to qualified full-time students (generally having a minimum of two academic years remaining to degree completion), who meet criteria set forth in paragraphs (2) or (3) above. Application for this program should be made prior to the end of the Spring Semester of the sophomore year for those not enrolled in previous Military Science instruction. Also available for accepted graduate students.

FOUR YEAR PROGRAM: Consists of all eight Military Science courses (commencing no later than the sophomore year). Enrollment in the first four courses of Military Science (MS I & II) is accomplished in the same manner as any other college course and carries no military obligation for non-scholarship students. Application to enroll in the Advanced Military Science courses (MS III & IV) must be made while enrolled in Military Science 202

While enrolled in the Advanced Course, each student is required to complete a paid six-week Advanced Camp at Fort Bragg, North Carolina, normally after completing Military Science 302. Transportation, food, lodging, and medical and dental care are provided in addition to base pay

MS 111-112 Basic Course Lab

0 credits

Required of all Basic Course students (MS I & II) each semester. Introduces students to tactics, leadership, marksmanship, first aid, and weapons. 2 hours

MS 101-102 Military Science I

2 credits

Instruction designed to provide a fundamental understanding of the Army's organization, structure, and components. Examination of the formulation and implementation of national security policy will be made. The student will become acquainted with military theory and the military profession. Leadership will be stressed throughout the course of instruction. 1 hour for 2 semesters

MS 131-132 Military Science Lab

0 credits

Required of an Advanced Course Students (MS III & MS IV) each semester. Stresses practical application of classroom theory and Army related subjects such as leadership, drill and ceremonies, weapons training, land navigation, first aid, mountaineering, and tactics. 2 hours

MS 201-202 Military Science II

4 credits

Introduction to land navigation, including use of the compass and topographic maps. First aid, to include CPR (certification available, depending on student interest). A survey of leadership theory to include leadership models and group dynamics is held. 2 hours for 2 semesters

MS 301 Military Science III

2 credits

(Prerequisite: MS 201-202, or equivalent) Military skills and professional knowledge subjects designed to instruct the cadet in the principles and techniques of applied leadership, advanced land navigation, and tactics. An introduction to the international agreements governing armed forces, operational planning, and the functions of command and staff. 2 hours. (GE Area II)

MS 302 Military Science III

1 credit

Instruction designed to prepare the student for the ROTC Advanced Camp. Emphasis on applied small unit leadership, physical conditioning, practical training on military equipment, tactics and unit drill. 2 hours. (GE Area II)

MS 401 Military Science IV

2 credits

An examination of mid-level management considerations in the Army. The course addresses the Amy"s personnel, training and logistics management systems. The course provides the cadet with an introduction to the profession, its characteristics, roles, and responsibilities. Moreover, cadets at this level are expected to apply their acquired leadership and management skills to the training mission of the ROTC Battalion. (GE AREA II)

MS 402 Military Science IV

1 credit

The Army Officer in contemporary American Society. An introduction to professionalism and military ethics. An introduction to the profession, its characteristics, roles and responsibilities; a basic understanding of the professional soldier's responsibilities to the nation and the armed forces; an understanding of the needs for ethical conduct, sensitivity to ethical issues, and improved ethical decision making skills. In addition, the cadet is given an overview of the American Military Justice System, the Law of War, and both legal and practical considerations in connection with apprehension and search of personnel, seizure of contraband, and individual rights. The course also offers outside presentations in the banking and insurance fields. 2 hours. (GE Area II)

PHED138 Army Physical Fitness Training Program

1 credit

The army's fitness program seeks to improve and'or maintain the components of physical fitness (Aerobics and running, strength and endurance training, flexibility and calisthenics, and diet and body composition) and motor fitness (Speed, agility, coordination, and balance) through technically sound, progressive, and appropriate training. Designed primarily for ROTC Advanced Course (MS III/IV) and Scholarship students to allow them to function effectively in physical and mental work, training, and lifetime recreation and still have energy to handle emergencies. This course is designed (but not required) to be counted toward the four credit PE requirement during the Junior and Senior years. This course may be audited (with permission from the Professor of Military Science) and is open to all students. Meets three times a week in the morning

NOTE: Candidates for an Army commission through Military/Science are required by regulation to complete academic courses in the areas of written communications skills, human behavior, military history, computer literacy, and math reasoning. Generally, this requirement will be met by satisfying the University General Education requirements. Additionally, scholarship cadets must complete one semester of study in a foreign language. Contact the Professor of Military Science for specific requirements.

NEUROSCIENCE

DR. J. TIMOTHY CANNON, Director

The foundation courses of this interdisciplinary curriculum are selected from the Biology, Psychology, and Chemistry departments. Depending upon the electives chosen, the program can prepare students for a variety of graduate programs within the field of neuroscience. Such graduate training may draw from a range of disciplines, including biology, psychology, anatomy, pharmacology, toxicology, biophysics, biochemistry, and medicine. Students have ample research opportunities in laboratories that can support a diversity of behavioral, biochemical, neurophysiological, and neuroanatomical investigations. The program is administered by an interdisciplinary committee and is listed in the current edition of Neuroscience Training Programs, published by the Society for Neuroscience

Dept. and No. Credits		Descriptive Title of Course			
		FRESHMAN	FALL	SPRING	
MAJOR MAJOR	Psych. 110 Biol. 141-142	Fund. of Psych General Biol. I-II	3 41/2	41/2	
COGNATE	Chem. 112-113	Gen. & Anal. Chem.	41/2	41/2	
GE AREA III GE AREA IV	Communications Humanities	Electives * * Electives	3 3	3 3	
GE AREA V	Phil. 120	Intro. to Phil.	3	3	
PHYS EDUC	Ph. Ed.	Physical Education	1	1	
			19	19	
MAJOR MAJOR	Psych. 231 Biol. 348	SOPHOMORE Behav. Neuro. Neurophysiology	41/2	3	
MAJOR	Psych. 210/330	Psych. Stat.Res. Methods		5	
COGNATE	Math 114	Analysis I	4		
GE AREA II	Electives	Electives	3	3	
GE AREA V PHYS EDUC	T/RS 121 - Phil. 210 Ph. Ed.	Theol. I - Ethics Physical Education	3 1	3 1	
FIII'S EDUC	FII. Eu.	Filysical Education	<u>18</u> 1/2	15	
_			_		
MAJOR	Electives	JUNIOR Electives *	3/4	3/4	
MAJOR	Electives	Electives *	3/4	3/4	
COGNATE	Electives	Electives * * *	3/4	3/4	
COGNATE GE AREA IV	Electives Humanities	Electives * * * Electives	3/41/2 3	3/41/2 3	
GE AREA IV	numanilles	Electives	ა 15/191/2	ى 15/191/2	
		0=1110=			
GEAREAII	Electives	SENIOR Electives		6	
GE AREA III	Elective	Elective	3	O	
CE ADEA IV	Llumonition	Flootivos	2	0	
GE AREA IV GE AREA V	Humanities T/RS 122 - Electives	Electives Theol. II - Electives	3 3	3 6	
GE FREE	Electives	Electives	6	3	
			15	18	

TOTAL: 1341/2 to 1431/2 credit

^{*} Students must take 4 major elective courses, 2 each from Psychology and Biology. Psychology electives must be drawn from Psych 220, Psych 221, Psych 222, Psych 225, Psych 230, Psych 234, Psych 235, or, with permission of the director, Psych 284 or 384.

Biology electives must be drawn from those intended for Biology majors. With permission of the director, Special Topics in Neuroscience (Neur 384) may be used to fulfill one Psychology or Biology elective requirement

- * * Unless the student is exempt from the University requirements, Engl. 107 and Comm. 100 are recommended in freshman year.
- * * * Students should consider their projected graduate program when choosing cognate electives from the areas of chemistry, mathematics, physics, and computer science

NEUR. 384 Special Topics in Neuroscience

(Formerly Neur. 170; Prerequisites: Biol. 141-142 and Psych. 231) Course topics are developed by individual faculty to provide in-depth coverage of a specific area in neuroscience. Some courses have required or elective laboratory components. Course titles and descriptions will be provided in advance of registration.

NEUR. 493-494 Staff

Undergraduate Research in Neuroscience

3-6 credits

(Formerly Neur. 160-161; Prerequisites: Biol. 141-142, Psych. 231, Psych. 330, and permission of professor) Individual study and research on a specific topic relevant to neuroscience under the supervision of a faculty member. It is strongly recommended that this research be initiated during the junior year, and it is expected that the research will extend over a two-semester period

PHILOSOPHY

DR. CASEY, Chairperson

The basic objectives of the Philosophy Department may be stated as follows:

- To inspire the student to come to grips with the basic philosophical problems implicit in the experience of the self, others and the universe, together with the question of their relations to ultimate transcendence (God and immortality);
- To lead the student to develop habits of clear, critical thinking within the framework of both an adequate philosophical methodology and accepted norms of scholarship;
- To introduce the student to reading critically the great philosophers, past and present;
- Finally, through this entire process, to help the student to formulate for himself or herself a satisfactory philosophy of life or world-view. Hopefully, such a formulation will ground both one"s own search for fulfillment as a free person and one's meaningful contribution to the world community. In this fashion, the Department exercises the specifically illuminating and unifying functions of philosophy as set forth in the basic objective of liberal education adopted by this University.

For the AB degree in Philosophy, the major must take 24 credits in Philosophy in addition to the six credits required of all students. As part of this 24 credits, the student is urged to take in senior year a seminar for philosophy majors. The remaining 21 credits must be distributed as follows: logic (3); history of philosophy (6); thematic or problem-centered courses (6); free (6). Classified as history of philosophy: Phil. 220, 221, 222, 223, 224, 225, 226, 227, 233, 234, 311, 320, 418, 425. Classified as thematic or problem-centered: Phil. 211, 212, 213, 214, 216, 227, 228, 229, 230, 231, 232, 233, 235, 236, 310, 311, 315, 316, 318, 319, 320, 321, 322, 410, 411, 418, 420, 425, 430, 431, 432, 433, 484,

Phil. 120, Introduction to Philosophy, is a prerequisite to any other philosophy course

PHIL 120

Staff

Introduction to Philosophy

3 credits

The purpose of this course is to awaken the beginning student to the basic questions and answers available in philosophy. Contemporary methods are used to understand both current and classical philosophical literature. While important professional texts are used, this course is kept flexible enough to allow the individual professor to develop his own approach to philosophical problems

PHIL 210 Staff **Ethics** 3 credits

A critical examination of fundamental moral issues through close readings of seminal texts spanning the history of philosophy from ancient Greece to the present. The ethical theories of such philosophers as Plato, Aristotle, Augustine, Aquinas, Kant and Mill may be examined as major representatives of the Western philosophical tradition. Themes to be explored may include happiness, virtue, the nature of justice, free choice, conscience, natural law and obligation, God and morality.

PHIL 211 Drs. Klonoski, Black

Business Ethics 3 credits

(Prerequisite: Phil. 210) The personal and social ethics of the major areas of decision making in business principles and case work will receive equal stress. Recommended for business majors

PHIL 212 Dr. Baillie, Fr. McKinney

Medical Ethics 3 credits

(Prerequisite: Phil. 210) The ethical aspects of abortion, euthanasia and preservation of life, sterilization and contraception, artificial insemination, experimentation on human beings, hypnosis. electro-shock therapy and psycho-surgery. Recommended for premedical and nursing students

PHIL 213 Dr. Casev 3 credits **Environmental Ethics**

PHII OSOPHY

(Prerequisite: Phil. 210) An introduction to environmental philosophy and the various ethical responses to the ecological crisis of the late 20th century. Examines such issues as biocentrism vs. anthropocentrism, the relation between culture and nature, the environmental ethical debate

PHIL 214 Dr. Nordberg
Computers and Ethics 3 credits

(Prerequisite: Phil. 210)) The computer revolution raises new ethical problems and presents novel aspects of traditional ethical issues. Ethical aspects of hacking, software piracy, computer aided decision making, protection of software by copyright, patent, trade secret laws, unauthorized use of computer resources, privacy and data-base security, program warranties and programmer responsibility, artificial intelligence, the interface between human and computer. Prerequisite: Phil. 210.

PHIL 215
Logic: The Art of Communication

Dr. Casey
3 credits

An introduction to logic as the science of argument including the nature of arguments in ordinary language, deduction and induction, truth and validity, definition, informal fallacies, categorical propositions and syllogisms, disjunctive and hypothetical syllogisms, enthymemes, and dilemmas

Dept. and No.		Descriptive Title of Course			
	Credits				
		FRESHMAN	FALL	SPRING	
MAJOR	Phil. 120-210	Introduction-Ethics	3	3	
GE AREA II	Nat. Sci./Quant.	Elective	2	3	
GE AREA III GE AREA III	Communications	Foreign Language* Electives	3 3	2	
GE AREA IV	Communications Humanities	Electives	3	3 6	
GE AREA V	T/RS 121	Theology 1	3	0	
PHYS EDUC		Physical Education	1	1	
	23.	Triyoroar <u>Ladoadori</u>	16	16	
		SOPHOMORE			
MAJOR	Phil. 215-Elec.	Logic-Thematic Elective	3	3	
MAJOR	Phil. Elec.	Hist. of Philosophy Elect.		3	
GE AREA I	Nat. Sci./Quant.	Electives	3	3	
GE AREA II	Social/Behavior	Electives	6	6	
GE AREA V	T/RS 122	Theology II	3		
PHYS EDUC	Ph. Ed.	Physical Education	1	1	
			16	16	
		JUNIOR			
MAJOR	Philosophy	Thematic & Free Electives	3	3	
MAJOR	Philosophy	Hist. of Phil. Elect.	3	•	
COGNATE	Electives	Electives	6 3	6 3	
GE AREA IV GE AREA V	Humanities Phil. or T/RS	Electives Philosophy/Religious	3	3	
GE AREA V	PIIII. UI 1/KS	Studies Elective	3		
GE FREE	Elective	Elective	3	3	
021112		2.00.170	18	<u>3</u> 15	
		SENIOR			
MAJOR	Philosophy	Electives	3	3	
COGNATE	Electives	Electives	6	6	
GE AREA IV	Humanities	Elective		3	
GE FREE	Electives	Electives	6	3	
			15	15	

TOTAL: 127 credits

* Foreign language is recommended by Department. Three credits may be placed in Area III (Communications) and three credits in Area IV (Humanities). ENGL 107 (Composition) and Comm. 100 (Public Speaking) are also recommended by the department for Area III

In the Cognate area of 24 hours, the department requires that 12 credits be focused in one field. It should be noted that six credits not required by the department in the Major area are added to the Free Area in senior year. These may be taken in any field including philosophy

MINOR. A minor in philosophy consists of 18 credits, i.e. the 6 credits required of all students and 12 additional credits to be chosen by the student

PHIL 216 Dr. Whittaker

Logical and Rhetorical Analysis

3 credits

A study of the principles of logic and persuasion, an analysis of fallacies, the principles of structure in written and oral composition. Practice in briefs and abstracts with an emphasis on exactness and clearness. (GE Area III)

PHIL 218 Dr. Meagher

Feminism: Theory and Practice

3 credits

In this course we will explore the relationship between feminist analyses of sexism and political practices aimed at eliminating it. To this end we will examine divergent political traditions and show ways in which feminists have criticized, appropriated, and made use of them in their own work. Special attention will be paid to the interrelationship of gender, class and race. This course may be counted toward Women's Studies Concentration.

PHIL 220 Dr. Klonoski

Ancient Philosophy

3 credits

The Pre-Socratics, Plato, Aristotle and their immediate successors. Special emphasis on the Theory of Knowledge, the Metaphysics and philosophical anthropology of Plato and Aristotle

PHIL 221 Dr. Rowe

Medieval Philosophy

3 credits

This course is an overview of philosophy in the European Middle Ages. We will focus on the connections between Medieval philosophy and its classical and Christian sources, on questions concerning nature/grace, reason/faith, theology/philosophy, on the nature of scholasticism as a method in philosophy, and on representative documents from the scholastic period. Our method will be a lecture-based presentation, together with discussion, of this basic material

PHIL 222 Dr. Nordberg

Modern Philosophy I

3 credits

Renaissance Background: Petrarch and the humanist movement; Galileo and the beginnings of modern science. Descartes: mathesis universalis; the difficulties of the Cartesian method; solution in the one substance of Spinoza. British Empiricism: Locke and the problem of substance, Berkeley's 'Esse est percipi', culmination in Hume and the doctrine of perceptual atomism

PHIL 223 Fr. Mohr

Modern Philosophy II

3 credits

The development of idealism in the thought of Kant, Fichte, Schelling, and Hegel, with its influence on Feuerbach, Marx, Engels, and Kierkegaard. Special consideration of dialectical thinking in its resolution of the antitheses of reality and appearance, freedom and necessity, infinite and finite, and faith and knowledge.

PHIL 224 Dr. Fairbanks

Foundations of 20th Century Philosophy

3 credits

A study of some of the key figures that have set the tone for the 20th Century philosophy. Buber, Marx, Kierkegaard, Hume, and Russell are studied in detail

PHIL 225 Dr. Casey

Contemporary Philosophy

3 credits

(Prerequisite: Phil. 210) A survey of 20th Century schools of philosophy including pragmatism (William James), phenomenology (Heidegger), existentialism (Sartre), post-structuralism (Derrida), and analytic philosophy (Wittgenstein).

PHIL 226 Dr. Roth

Oriental Philosophy 3 credits

This course will introduce the student to the classical and modern Chinese understanding. The core of the course will focus on the Taoist's teachings and vision, the modifications made to Taoism by Buddhism, and the thought of Confucius and the Neo-Confucians. Included in the course will be reflections, comparisons and contrasts with Western thought and some discussion of Japanese Buddhism. The topics of the course will be politics, ethics, social life, mysticism, religion and reality.

PHIL 227 Dr. Baillie

Political Philosophy

3 credits

Philosophical and ethical analysis of the social nature of man with emphasis on modern social questions. Ethics of the family, of nation and of communities. International ethics

PHIL 228 Dr. Fairbanks

Philosophy of the Person

3 credits

This course will deal with the basic questions that confront the human person. This will involve an analysis of the social situation, a discussion of the implications of this situation for the person as he/she relates to the world, and a search for the meaning of the 'whole person'.

PHIL 229 Fr. Mohr

Philosophy of Religion

3 credits

An investigation of the main topics which have emerged in philosophers reflections on religion: arguments for the existence of God; the possibility of statements about God; assessment of religious experience; the notions of miracle, revelation, immortality and afterlife; the problem of evil; relations between religious faith and reason; religion and ethics. Selected reading from classical and contemporary authors.

PHIL 230 Dr. Capestany

Philosophy of History

3 credits

This course considers three fundamental aspects. First, the ultimate causes of the historical facts (philosophy of history); second, the ultimate causes of the knowledge of those facts (philosophy of the science of history); and finally, a study of the unification of these two in man, reality, and theology.

PHIL 231 Dr. Roth

Philosophy of Women

3 credits

This course reviews the philosophies of woman in western thought from Plato and Aristotle to Nietzche, Schopenhauer, and Beauvoir. It concludes with an interdisciplinary selection of readings on women to be addressed philosophically in art, anthropology, literature, politics, theology, psychology, etc.

PHIL 232 Dr. Capestany

Idea of a University

3 credits

An investigation of the philosophy of a liberal education, using John Henry Newmans *Idea of a University* as a tool.

PHIL 233 Fr. Mohr

Language and the Existence of God

3 credits

A study of methods of expressing God's existence in language, this course will examine the proofs for the existence of God in Anselm, Thomas Aquinas, and Descartes, analyze Kan'ts criticism and Hegel's reevaluation of such proofs, and reflect on modern theories of language about God

PHIL 234 Fr. Mohr Scredits 3 credits

A critical study of selected works of Kierkegaard, Jaspers, Marcel, and Sartre, with special emphasis on the existentialist themes of selfhood, freedom, dread, responsibility, temporality, body, limited and unlimited knowledge and reality, and fidelity to community

PHIL 235 Dr. Fairbanks

New Directions in Philosophy

3 credits

The purpose of this course is to use very recent works that develop major philosophical concepts to explain current and possible future roles in human behavior. A course of this type must be

constantly updated. However, some of the following books will he used: The Third Wave, Megatrends, The Fifth Generation, The Hidden Injuries of Class, The Tao Jones Averages, The Aquarian Conspiracy, The Tao of Physics and In Search of Excellence.

PHIL 236 Dr. McGinley

Freud and Philosophy

3 credits

Examination of overt and covert philosophical implications of Freuds system of psychoanalysis. Emphasis on actual writings of Freud, particularly after 1920

PHIL 310 Dr. Casey

Epistemology

3 credits

An historical and analytical examination of the problem of knowledge within the context of the problem of truth. Areas of investigation are authentic and unauthentic thinking and verbalization; the relationship between thought and language; the relationship between thought and experiencing; the critical status of the fundamental positions on the problem of ultimate truth

PHIL 311 Drs. Baillie, McGinley

Metaphysics

3 credits

A textual inquiry into the adequacy of philosophers' answer to the fundamental question, "What is?". Special attention will be given to Plato, Aristotle, Aquinas, Kant's critical philosophy, and the issues of nature and history.

PHIL 312 Dr. Rowe

Modern Philosophy III

3 credits

An upper level historical course focusing on trends in nineteenth century European thought. The course is organized around key figures, texts and themes representing these trends. We will follow the method of a close reading of the assigned texts and will concentrate on such issues as the relation between philosophy and pre-philosophical knowledge, the place of philosophy in society, the resolution of conflict in life and thought, the crisis of "Man" in modern mass culture, and the simultaneous spread and decay of humanism in the nineteenth century. Our principal objective will be to understand in context the philosophical views under investigation

PHIL 313 Dr. Klonoski

Philosophy and Friendship

3 credits

This course will be a historical survey of primary texts which discuss friendship. It is the contention of the instructor that friendship is currently a much under-appreciated virtue and yet there is a rich tradition in literature which highlights its importance. Readings in the course will be taken from authors of the ancient, medieval, modern and contemporary periods in the History of Philosophy. Some of these authors whose works will be discussed are, Xenophon, Plato, Aristotle, Cicero, Augustine, de Montaigne, Bacon, Kant, Emerson, Nietzsche, Gray, Arendt and Sartre

PHIL 315 Dr. Harold Baillie

20th Century Political Philosophy

3 credits

This course is a survey of modern social contract theory, and its relation to capitalism, and of modern marxism. Issues raised will include obligation and consent, equality, freedom and self-determination, the role of markets, and the role of the state

PHIL 318 Dr. Harold Baillie

Social Justice

3 credits

The purpose of this course is to raise issues that involve obligations of the society to the individual and the individual to society. It will begin by questioning the relation between conceptions of justice and conceptions of rationality and then move to the examination of the claims of human dignity across traditions.

PHIL 319 Dr. Capestany

Philosophy of Law

3 credits

A study of the various justifications of law and their implications. Special consideration will be given to the problems of civil disobedience and the force of law in private institutions

PHIL 320 Aesthetics Drs. Capestany, Black

3 credits

The main theories of the essential character of beauty or art, how they are judged, how they are related to the mind and the whole person, how they are created and how this creativity expresses a commitment to oneself and to the world

PHIL 321 Dr. Nordberg

Great Books 3 credits

Major thinkers in the Western philosophical, religious, political and literary traditions. This course emphasizes philosophical themes in literature

PHIL 322 Dr. Black

Philosophy of Conscience

3 credits

This course explores the mitigating ideals of cultural activity. Love, laughter, and rhetoric are examined both as the models of conscience and as imagination-based phenomena that generate the primary metaphors of a moral society. Special consideration will be given to theories of Kant, Marx, and Plato.

PHIL 325 Dr. Meagher Literature and Ethics 3 credits

This course examines that "old quarrel between philosophy and literature," the dispute between Plato and Ancient Athenian poets regarding the source of morality, and studies how this guarrel continues in contemporary moral discourse. The aims of this course are to: (1) gain a better understanding of issues in contemporary moral thinking, especially regarding so-called narrative approaches to ethics"; and (2) rethink the "old quarrel," as we examine contemporary philosophers" turns to literature in an attempt to reconstruct the concept of moral agency

PHIL 326 Dr. Meagher

Advanced Topics in Feminist Philosophy

3 credits

This course will explore a special topic in feminist philosophy. The topic will vary according to student and faculty interest. Possible topics might include:feminism and aesthetics, issues of equality, philosophy of women. Course might be repeated as topics vary. Prerequisite: Phil. 218, other women's studies courses, or permission of the instructor. This course may be counted toward Women's Studies Concentration.

PHIL 327 Dr. McGinley

Readings in the Later Plato

3 credits

A survey and contextualization of the dialogues usually said to be"Later" in Plato"s intellectual development will precede a textually based examination of those dialogues in which Platös dialectic turns on the "concept" of difference. Thaetetus, Sophist, and Parmenides will be emphasized.

Dr. Meagher **PHIL 328**

Philosophy of Literature

3 credits

This course examines the nature of literature, and its relation to philosophy and political life. Students will study both classical texts on literature and contemporary Anglo-American examinations and appropriations of them, as well as recent European literary theory

PHIL 410 Dr. Black

Philosophy of Culture

3 credits

Examines the meaning of the term "culture." Explores the notions of civilization and barbarism, common principles in cultural development, and the interaction of such cultural forces as myth, magic, language, art, religion, science and technology. Special attention will be given to the question of "progress" and "regress" in culture.

PHIL 411 Dr. Capestany

Philosophy of Aquinas

3 credits

Significance of Aguinas" incorporation of Aristotelianism into the Christian West in the 13th century. Importance of his synthesis of philosophy and theology. Examination of his metaphysics, anthropology and ethics. His relevance to the world

PHIL 414 Dr. Rowe

Philosophy of Emmanuel Levinas

3 credits

This course is a study of the twentieth century Jewish philosopher Emmanuel Levinas. Levinas's philosophy is a theory of ethical experience that draws its categories from both Greek and Hebrew sources. Accordingly, Levinas seeks to reorganize the Western idea of the ethical around the themes of transcendence and metaphysical desire for the Other, both human and divine. By developing these themes Levinas has also enriched the dialogue between the Jewish and Christian traditions in philosophy. Our course will follow a close reading of Levinas' texts and will aim at understanding in context this important and influential post-modern thinker

PHIL 418 Dr. Klonoski

Phenomenology

3 credits

An introduction to phenomenology, which is a critical methodological approach to human experience. This 20th century European movement will be examined through selected works of Husserl, Heidegger, Sartre, and Merleau-Ponty. The intent of the course is to explore phenomenology both as a theoretical approach to the study of human consciousness and the livedworld and as a unique philosophical method

PHIL 420 Dr. Black

Philosophy of Rhetoric

3 credits

A systematic and historical investigation of the form, meaning, and influence of rhetoric. Explores the relationships between topic and metaphor, logic and narration, ethos and logos, conscience and persuasion. Special attention is given to the natural and unnatural relationships between the rhetorician and the philosopher.

PHIL 425 Fr. McKinney

Postmodern Philosophy

3 credits

An examination of the transition from modernist culture and thought to postmodernist culture and thought. Derrida's method of deconstruction will serve as the paradigm example of postmodernism. Recommended for those interested especially in literature and fine arts

PHIL 430 Dr. Meagher

Philosophy of the Social and Behavioral Sciences

3 credits

The goal of the course is to encourage students to think philosophically about issues raised in social scientific studies, especially regarding the following: 1) the problem of cross-cultural understanding and interpretation, 2) the difficulties of research design and methodology, and 3) the relationship between social science, ethics, and policy making. Readings will be drawn from social scientific texts, "classic" debates in the philosophy of social science, and recent work in feminist epistemology and philosophy of the social sciences. Students interested in philosophy and or the social sciences are encouraged to participate

PHIL 431 Dr. Fairbanks

Philosophy of Science

3 credits

An introduction to the history and philosophy of science. Selections from Darwins The Origins of Species (1859) and The Descent of Man (1871) and Popper, Feyerabend, Hanson, Stace, Quine, Frank, Rescher, Hempel and Baier.

PHIL432 Dr. T. Casey

Technology and Culture

3 credits

An examination of the cultural significance of modern technology from a variety of philosophical perspectives. Special emphasis will be placed on the technological character of ordinary existence, as well as on technology's relation to and impact on science, art, religion, and politics

PHIL 433 Dr. Fairbanks

Linguistic Philosophy

3 credits

The purpose of this course is to introduce the student to some of the major writers who have influenced in a major way twentieth century analytic and linguistic philosophy. These philosophers include C.S. Pierce, G.E. Moore, B. Russell, Wittgenstein, Ayer, Ryle, Wisdom, Quine, and Austin

PHIL 434 Dr. Baillie

Issues in Philosophy and Theology

3 credits

This course will investigate certain modern and contemporary problems in the relationship between philosophy and theology. In particular, it will examine the ways in which philosophical discussions (both specific arguments and general positions) influence theological discussions, as evidence of the suggestion that philosophy "gives voice" to theology.

PHYSICS

DR. CONNOLLY, Chairperson

The department of Physics/EE offers majors in physics and biophysics, as well as the electronics engineering and electronics-business majors described earlier. The objectives of the department are to provide skills, understanding, and the methodology required to initiate active participation in the development of new knowledge about the material universe. The approach of the physicist, based as it is on the analysis of mathematical models dealing with matter and energy and their interactions, supplies a unique and important insight to the solution of problems in many disciplines.

A 1988 study by the office of institutional research at Franklin and Marshall College shows that over the last 66 years, the University of Scranton ranked 33rd out of 977 four-year, private, primarily undergraduate institutions as the baccalaureate origin of physics doctorates. In addition, the biophysics concentration in recent years has regularly produced students admitted to medical school.

Dept. and No.		Descriptive Title of Course			
FRESHMAN		SPRING	4	4	
MAJOR COGNATE	Phys. 140-141 Math 103-114	Elements of Physics I-II Pre-Calculus MathAnalysis	4 : I	4	
000117112	or or Math 114-221	Analysis I-II	4	4	
GE AREA II GE AREA V	Social/Behavior Communications Phil. 120 or	Elective Electives* Intro. to Philosophy or	3	3	
	T/RS 121	Theol. 1	3		
PHYS EDUC	Ph. Ed.	Physical Education	<u>1</u> 15	<u>1</u> 15	
			15	15	
MAJOR	Phys. 270-352	SOPHOMORE Elements Modem Physics Statistical and Engineering	4	3	
COGNATE	Math 221-222 or Math 222-341	Thermodynamics Analysis II-III or Analysis III-Differential			
OE ADEA II	Conict/Dobassian	Equations	4	4	
GE AREA II GE AREA III	Social/Behavior Communications	Electives Elective*	3 3	3	
GE AREA IV GE AREA V	Humanities T/RS 121 or	Electives	3	3	
	Phil. 120	Theol. I or Intro. to Phil.		3	
PHYS EDUC	Ph. Ed.	Physical Education	1	1	
-			<u>18</u>	17	
		JUNIOR			
MAJOR MAJOR	Phys. 447-448 Phys. 371-372	Electromagnetics I-II Mechanics	3	4	
		Atomic/LASER Phys.	3	3	
COGNATE	Math. 341 or	Differential Equations or El. Math/Phys. Elec.	4/3		
COGNATE	Phys. 350	Applied & Engineering Math		3	
GE AREA IV	Humanities	Electives	3		
GE AREA V GE AREA V	Phil. 210 T/RS 122	Ethics Theology II	3	2	
GE AREA V	1/130 122	Theology II	15/16	<u>3</u> 16	
			. 5, . 5	.0	

SENIOR

MAJOR	Phys./EE	Electives	3	3
MAJOR	Phys. 493	Physics Research	1	3
GE AREA II	Social/Behavior	Elective	3	
GE AREA IV	Humanities	Electives	3	3
GE AREA V	PhilT/RS	Philosophy and/or		
		Religious Studies	3	3
GE FREE	Electives	Electives	3	3
			16	15

TOTAL: 128/127 credits

 $^{^{\}star}$ The Department recommends Comm. 100, Engl. 107, and, in fall semester of sophomore year, CMPS 134 for GE AREA III.

BIOPHYSICS

The biophysics major is designed to prepare a student to apply the physical and mathematical sciences to problems arising in the life sciences and medicine. By choosing proper electives, the student can prepare to enter graduate study of biophysics, biology, biochemistry, medicine or dentistry.

Dept. and No.		Descriptive Title of C	Course	
	Credits			
MAJOR MAJOR COGNATE GE AREA III PHYS EDUC	Biol. 141-142 Physics 140-141 Math. 103-114 or Math. 114-221 Communications Ph. Ed.	FRESHMAN General Biology 141-142 Elements of Physics I and Pre-Calculus Math-Analysis or Analysis I-II Electives* Physical Education		SPRING 41/2 4 4 1 161/2
-			<u>10</u> 1/2	101/2
MAJOR MAJOR COGNATE GE AREA V	Phys. 270-352 Chem. 112-113 Math 221-222 or Math 222-341 Phil. 120	SOPHOMORE Modern-Statistical Physics General & Analytical Chem Analysis II-III or Analysis III-Diff. Equations Introduction to Philosophy	4 . 41/2 4	3 41/2 4
GE AREA V GE AREA IV PHYS EDUC	T/RS 121 Humanities	Introduction to Thiosophy Introduction to Theology Elective Physical Education	2	3 3 1
			171/2	181/2
MAJOR MAJOR COGNATE GE AREA II GE AREA IV GE AREA V GE AREA V GE FREE	Phys.,Bio.,Chem. Phys.,Bio.,Chem. Chem. 232-233 Social/Behavior Humanities Phil. 210 T/RS Elective	JUNIOR Elective Elective Organic Chemistry I-II Electives Electives Ethics T/RS Elective Elective	3 41/2 3 6	3 41/2 3 3 3 3 3 191/2
MAJOR MAJOR GE AREA II GE AREA IV GE AREA V	EE. 241 Phys.,Bio.,& Chem. Social/Behavior Humanities PhilT/RS	SENIOR Circuit Analysis Electives Electives Electives Philosophy and/or T/RS	6 3 6 3 <u>18</u>	4 6 3 3 16

TOTAL: 144 credits

MINOR. The minor in Physics includes Phys 140, Phys 141, Phys 270 (all with labs), Phys 352, Engr 252, and at least one of Phys 473, Phys 372 and/or Phys 371. Minimum credits required for minor: 21.

PHYS 101 Staff Modern Astronomy 3 credits

^{*} Department recommends Engl. 107, Comm. 100, and CMPS 134, for GE AREA III electives

An introductory course for non-science students. A review of the basics about the sun and planets based on the most recent Voyager and Pioneer probes. The observational basis for Astronomy. Basic ideas about the birth and death of stars, black holes, neutron starts, white dwarf star, star clusters and galaxies. Theory of the origin of the solar system and the universe

PHYS 102 Dr. Connolly, Staff

Earth Science

3 credits

Introductory level course for non-science majors. Selected topics from geology and meteorology; weather forecasting, ground and surface water, mountain building, volcanoes, earthquakes, plate tectonics and oceanography. Three hours lecture. No prerequisite

PHYS 103 Staff

Seeing the Light

3 credits

A one-semester course in the physics of light and vision. Includes topics such as-- physics of the human eye, the physics of telescopes, microscopes and cameras

PHYS 104 Dr. Zakzewski

Electronics in Everyday Life

3 credits

Every day we listen to the radio or compact disk recordings, watch TV, use photocopiers, and Fax machines without really knowing how they work. This course is designed for the non-science major to provide the scientific background to understand the operation of some of the common electronic eqipment we encounter daily including television, VCR, and stereo. Students will use laboratory time to build basic electrical circuits including an audio amplifier. The course does not require previous training in electronics or college math. 2 hours lecture and 2 hours laboratory. (GE Area I).

PHYS 106 Prof. Kalafut

Energy and the Environment

3 credits

A course for non-science majors that emphasizes the various aspects of man's use of energy and changes in the environment that accompany that use. Sources of energy; the nature of the present energy and environmental crises and possible solutions; energy requirements of the future; conservation and alternate energy sources. (GEArea I)

PHYS 107 Dr. Spalletta

"Hands On" Physics

3 credits

An introduction to the scientific method with an emphasis on the physical reality around us. Students will participate in a series of experiments and discussions illustrating various physical phenomena. The object of this course is to provide the student with the scientific background to participate in the assessment of important social, political and scientific issues such as the environment, energy policy, the application of medical technology and space exploration. (GE AREA I).

PHYS 108 Dr. Spalletta

New York Times Physics

3 credits

Every day we are bombarded with information regarding the impact of technology on our lives. Using the backdrop of the headlines of the *New York Times*, students will explore the scientific and technological concepts that make up our modern world. Each week new topics will be introduced, first by reading the articles from the newspaper, and then by presentation and discussion. (GE AREA I).

PHYS 110 Dr. Connolly

Meteorology 3 credits

This course is an introductory level course for non-science majors. The purpose of the course is to familiarize the student with the basic physical and chemical phenomena involved in the determination of our climate and weather. Through an understanding of these phenomena, an individual will be in a position to comprehend daily weather events and patterns and weather forecasting. Topics include:atmosphere composition and structure, moisture and precipitation, cloud formation, pressure and wind, cyclones, circulation of atmosphere, air masses and fronts, and forecasting. (GE AREA I).

PHYS 120-121 Staff General Physics 8 credits

(Prerequisites: Mathematics 103-114) General college course for pre-medical, pre-dental and biology majors. Mechanics, heat, electricity and magnetism, sound, light and modern physics. Three hours lecture and recitation and two hours laboratory.

PHYS 140-141 Staff

Elements of Physics

8 credits

(Corequisite: Mathematics 114-221) Calculus based introduction to the elements of Physics. Topics covered: mechanics, heat, sound, light and electricity and magnetism. Required of Physics, E.E., Mathematics, Computer Science and Chemistry majors. Three hours lecture and recitation and two hours laboratory.

PHYS 270 Prof. Kalafut

Elements of Modern Physics

4 credits

(Prerequisites: Physics 141 and Math 114) Introductory Modern Physics course for physics and engineering majors; also recommended for other science majors. Review of classical physics; Special Theory of Relativity; atomic theory of hydrogen from Bohr to Schroedinger; multielectron atoms and the periodic table; introduction to nuclear physics. Three hours lecture and two hours laboratory.

PHYS 350 Dr. Varonides

Applied and Engineering Mathematics

3 credits

(Prerequisite: Math 222, Physics 141) First and second order differential equations with constant coefficients; Fourier series differential equations with constant coefficients; Fourier series and Fourier Transforms; partial differential equations and boundary value problems; special functions, e.g. Bessel functions and Legendre polynomials; elementary probability theory. (Also listed as Engr. 350.) 3 hours lecture.

PHYS 351 Staff

Mathematical Physics II

3 credits

Functions of a Complex Variable. Infinite Series in the Complex Plane. Theory of Residues. Conformal Mapping. Fourier and Laplace Transforms. Advanced Partial Differential Equations. Boundary Value Problems in Physics. Green's Functions.

PHYS 352 Dr. Varonides

Statistical and Engineering Thermodynamics

3 credits

(Prerequisite: Phys. 270) Derivation of Thermodynamics from probability theory and atomic physics; Laws of Thermodynamics; Maxwell relations; chemical potential and phase changes; refrigerators and heat pumps; theory of gasses and theory of solids. Special topics dependent upon interests of majors represented. (Also listed as Engr. 352). 3 hours lecture

PHYS 371 Staff

Advanced Mechanics

3 credits

(Prerequisite: Math 341) Comprehensive course in Newtonian dynamics, Variational principles, Lagrange's and Hamilton's equations; theory of small oscillations and specialized non-linear differential equations in mechanical systems

PHYS 372 Prof. Kalafut

Atomic and LASER Physics

3 credits

(Prerequisite: Physics 270 & Math 222) Intensive and quantitative treatment of modern atomic physics using the principles and techniques of quantum mechanics. The study of energy levels, pumping, feedback and transition rates in lasers. Required of physics majors and highly recommended elective for Electronics Engineers. Three hours lecture with optional laboratory

PHYS 447 Dr. Varonides

Electromagnetics I

3 credits

(Prerequisites: Physics 270, Phys. 350) Analytic treatment of electrical and magnetic theory; vector calculus of electrostatic fields; dielectric materials; vector calculus of magnetic fields. (Also listed as EE 447). 3 hours lecture.

PHYS 448 Dr. Zakzewski Electromagnetics II 3 credits

(Corequisite: Phys. 447) Magnetic materials, electromagnetic induction, displacement currents, Maxwell's equations; radiation and waves; applications include Transmission lines, wave guides and antennas. (Also listed as EE 448). 3 hours lecture

PHYS 448 L Dr. Zakzewski

Electromagnetics Design Laboratory

1 credit

(Corequisite: Phys. 448) Laboratory designed to emphasis and reinforce the experimental basis of electromagnetism. Multi-week projects require the student to perform experiments that measure fundamental electrical constants, the electrical and magnetic properties of matter, and the properties of electromagnetic waves. (Also listed as EE 448 L). 2 hour laboratory

PHYS 473 Dr. Connolly Optics 3 credits

(Prerequisites: Physics 270, Math 341 or Physics 350) An introduction to the principles of geometrical, physical and quantum optics. Topics to be covered include ray and wave optics, superposition, diffraction, interference, polarization, Fourier methods, and coherence theory. Practical devices such as photodetectors and light sources will also be discussed. 3 hours lecture

PHYS 474 Dr. Fahey
Acoustics 3 credits

(Prerequisite: Phys. 350) This course covers the fundamentals of vibration as applied to one, two and three dimensional systems with varied boundary conditions. Transmission, absorption, attenuation, and radiation are covered. Resonators and waveguides and filters are studied along with the fundamentals of transducers. Acoustical issues in hearing are covered, time pertaining

PHYS 493 Dr. Spalletta and Staff

Undergraduate Physics Research

Variable Credit

Recommended for senior physics students who pursue a specific physical research project to gain experience with research literature, techniques and equipment. Projects are recommended by members of the department and approved by the Chairperson. Written report required

POLITICAL SCIENCE

DR.DeMICHELE, Chairperson

The Bachelor of Science degree program in political science aims to accomplish the following objectives: 1. to give the student a thorough understanding of the nature and purposes of civil society; 2. to impart a sound knowledge of the philosophical basis of democracy; 3. to enable the student to appreciate the problems of his or her own government at work; and 4. to relate the American system to the governments of other states in the international community

Dept. and No. Credits		Descriptive Title of Course		
MAJOR COGNATE COGNATE GE AREA III GEAREAV GEAREAV PHYS EDUC	PS 130-131 Hist 110-111 Hist 120-121 Communications Phil. 120 T/RS 121	FRESHMAN American National Govt. U.S. History European History Electives* Intro. to Philosophy Theology I Physical Education	FALL 3 3 3 3 3 3 1 1 16	3 3 3 3 1 16
MAJOR GEAREAI GE AREA III	PS Math Communication	SOPHOMORE Comparative/Internat'l Polit Math (at appropriate level) Elective*	ics* * 3 3/4 3	3 3/4
GEAREA IV GE AREA V GE AREA V	Humanities Phil. 210 T/RS 122	Electives Ethics Theology II	3	3
GEFREE PHYS EDUC	Electives Ph. Ed.	Free Electives Physical Education	3 1 16-17	3 1 16-17
MAJOR MAJOR MAJOR COGNATE GE AREA I GE AREA V GE FREE	PS240-elective PS 313-314-elec PS Area II Nat. Sci./Quant. PhilT/RS Electives	JUNIOR Pol. Science Statistics *** Western Political Thought** Elective Social Science Electives Elective Elective Free Electives	3 * 3 3 3 15	3 3 3 3 3 3 18
MAJOR COGNATE GE AREA IV GE AREA V	Pol. Sci. Electives Humanities PhilT/RS	SENIOR Electives Electives Electives Elective	6 3 6	3 3 6 3 15

TOTAL: 127 credits

^{*} Economics 210 and Geog. 134 are recommended as AREAII electives. As Communications electives in GEAREAIII, the department recommends Comm. 100 and English 107. For GEAREA IV Humanities electives, the department recommends HPS 317-318 and H/PS 331-332. In GEFREEAREA, the department recommends a modern foreign language in junior year with

subsequent language courses to follow in senior year as part of GEAREAIV (Humanities). The department advisor should be consulted

- ** In addition to the American National Govt. sequence and the courses in statistics and political philosophy, the department requires that majors elect a minimum of one course in Comparative Politics (from among PS 217, 218, 221, 222, H/PS 213, 238, 326, 327, 338) and a minimum of one course in International Relations (from among PS 212, 213, 215, H/PS 214, 215, 227).
- *** Political Science majors are required to take PS240 (Statistics I) and one semester of political philosophy (either 313 or 314); since two semesters of each are particularly useful for students planning graduate or law school, PS 241 and the alternative semester of the 313-314 sequence are strongly recommended as electives

DOUBLEMAJORS between any two of the majors in the HistoryPolitical Science department require that none of the 36 credits in the first major be applied toward the major requirements of the second major.

PUBLIC ADMINISTRATION-PUBLIC AFFAIRS

Intended to improve society by providing professional training for men and women who seek careers as agency administrators, program directors, staff analysts in local, state or federal government or other public service organization, the public affairs public administration major is also specially suited for those who wish to pursue graduate studies in law, political science, business, planning or development

Analytical and quantitative skills are developed in combination with a firm background in the social and behavioral sciences in order to provide: 1. substantive knowledge of a range of societal problems, the unique political environment in which the problems exist, and management systems for achieving implementation of policy decisions; 2. management skills in the areas of motivation of leadership, organizational management, personnel management and program evaluation; 3. sensitivity to values of public interests, equal rights, economic, social, cultural and religious institutions.

Dept. and No. Credits		Descriptive Title of Course		
MAJOR GE AREA I GE AREA IV GE AREA V GE AREA V PHYS EDUC	Po1. Sci. 110-111 Math Communications Humanities Phil. 120 T/RS 121	FRESHMAN Intro. to Pub. Admin/Pub. P Math (at appropriate level) Electives * Electives * * Introduction to Philosophy Theology I Physical Education	FALL 01. 3 3 3 3 3 1	3 3 3 3 3 4 1 16
MAJOR MAJOR COGNATE GE AREA III GE AREA V GE AREA V PHYS EDUC	T/RS 122; Phil-T/RS	SOPHOMORE American National Governme PS Statistics I, II Prin. of MicroMacro. Eco. Elective Ethics Theol. II/Elective Physical Education	nent 3 3 3 3 3 1	3 3 3 3 1 16
MAJOR MAJOR COGNATE COGNATE GE FREE	Po1. Sci. 322 Po1. Sci. Electives Soc. 110, Elective Acc. 253-254 Electives	JUNIOR Public Personnel Electives * * Intro. to Sociology, Soc. Sci. Elective Financial & Managerial Accounting Electives	3 3 3 3 15	3 3 6 15
MAJOR MAJOR MAJOR COGNATE GE AREA I GE AREA IV GE AREA V	Po1. Sci. 325 Po1. Sci. 324 Pol. Sci. 480 Soc. Science Nat. Sci./Quant. Humanities PhilT/RS	SENIOR Politics of the Budgetary Pro Public Policy Analysis Public Admin. Internship Soc. Science Electives Elective Electives * * * Elective	ocess 3 3 3 6	3 3 3 6 3 15

TOTAL: 127 credits

- * Department recommends Comm. 100 & English 107 for AREA III Electives
- * * Major electives to be selected in consultation with advisor
- * * * Department recommends History 110-111 & History 120-121 for AREA IV Electives

INTERNATIONAL STUDIES

A major in International Studies seeks to provide the student with a full recognition and understanding of the multitudinous forces which shape the contemporary world-nationalism, wars, political and economic ideologies, cultural differentials, and modern technology. Such a broad knowledge and understanding of world affairs can be utilized in careers in teaching, international business, the legal profession, journalism, the Foreign Service of the United States, and other government agencies.

Dept. and No.		Descriptive Title of Course			
	Credits				
		FRESHMAN	FALL	SPRING	
MAJOR	History 110-111	United States History	3	3	
COGNATE	Pol. Sci. 130-131	American National Governm		3	
COGNATE	Language 101-102	Elementary or Intermediate	3	3	
or 211-212					
GE AREA III	Communications	Electives * *	3	3	
GE AREA V	Phil. 120	Introduction to Philosophy		3	
GE AREA V	T/RS 121	Theology I	3		
PHYS EDUC	Ph. Ed.	Physical Education	1	1	
			16	16	
		SOPHOMORE			
MAJOR	History 120-121	Europe: 1500 to Present	3	3	
MAJOR	Pol. Sci. 212-213	Internat'l. RelGeopolitics	3	3	
MAJOR	Geog. 134	World Regional Geography		J	
GE AREA II	Economics 153-154	Prin. of MicroMacro. Eco.	3	3	
GE AREA III	Language	Intermediate or Advanced	3	3	
GE AREA V	Phil. 210	Ethics		3	
PHYS EDUC	Ph. Ed.	Physical Education	1	<u> </u>	
			16	16	
		JUNIOR			
MAJOR	Hist, or Pol. Sci	Electives *	6	6	
COGNATE	Electives	Electives	3	6 3	
GE AREA I	Nat. Sci./Quant.	Electives	3	3	
GE AREA V	T/RS 122; Phil-T/RS	Theol. II; Electives**	3	3	
GE FREE	Elective	Elective	· ·	3	
			15	18	
		SENIOR			
MAJOR	H/PS 390	Seminar		3	
COGNATE	Electives	Electives	3	3	
GE AREA I	Nat. Sci./Quant.	Elective	3		
GE AREA II	Social/Behavior	Electives	3 3	3	
GE AREA IV	Humanities	Electives	3 3	3	
GE AREA V GE FREE	T/RS	T/RS Elective * *	3	0	
GEFKEE	Elective	Elective	15	3 15	
			10	13	

TOTAL: 127 credits

* Major electives to be selected from P.S. 215, P.S. 217, P.S. 218, P.S. 221, P.S. 222, P.S. 315, P.S. 316; H/P.S. 213, H/P.S. 214, H/P.S. 215, H/P.S. 227, H/P.S. 238, H/P.S. 295, H/P.S. 319, H/P.S. 320, H/P.S. 326, H/P.S. 338; Hist. 215, Hist. 226. Hist. 234, Hist. 327, Hist. 335; Department recommends Hist. 140, Research Methods, for Junior International Studies majors.

* * Department recommends Engl. 107 and Comm. 100 as Area III electives and TRS 234 and 235 as AREA V electives. Department recommends cognate electives be used if needed to complete a language sequence up to the advanced level, otherwise, it is recommended that they be used for appropriate course sequences in the School of Management such as Mgt. 351-Mgt. 471, Mkt. 351, or additional course work in economics finance, for which AREA II electives can also be applied

MINORS

A minor in Political Science (18 credits) should include Pol. Sci. 130 and 131, plus any four additional political science courses.

A minor in Public Administration (18 credits) should include P.S. 110, 111, 130 and 131 plus any two additional courses from the following P.S. 210, P.S. 211, P.S. 310, P.S. 325, P.S. 323, 240, P.S. 327 and P.S. 324.

A minor in International Studies (18 credits) should include History 110, 111, Pol. Sci. 130 and 131 plus two additional courses from the following: P.S. 212, P.S. 213, P.S. 215, P.S. 217, P.S. 218, P.S. 221, P.S. 222, P.S. 312, P.S. 316; H/P.S. 213, H/P.S. 214, H/P.S. 215, H/P.S. 227, H/P.S. 238, H/P.S. 295, H/P.S. 319, H/P.S. 320, H/P.S. 326, H/P.S. 327, H/P.S. 335, H/P.S. 338; Hist. 226, Hist. 234, and Hist. 235.

POL SCI 110 Dr. Harris

Introduction to Public Administration

3 credits

Introduction to the study of public bureaucracy. The growth of the administrative state, the role of bureaucracy in our democratic government, and the day-to-day operation of government bureaucracy are considered.

POL SCI 111 Dr. Champney

Introduction to Public Policy

3 credits

An analysis of public policy in the U.S., with an emphasis on the technical and political problems of policy formulation and implementation. Discussion of the impact of legislative, executive and judicial institutions and processes on the content of public policy

POL SCI 130-131 Staff

American National Government

6 credits

Discussion of the principles and processes of democratic government in America. The Constitution, federalism, structure, operations and functions of the branches of government

POL SCI 210 Staff

State and Local Government

3 credits

The national constitutional position of the states and the changing federal - state relationships. The types and evolution of local government; constitutional and statutory limitations, functions of divisions; structure and operation. Emphasis on Pennsylvania and actual problems of procedure and policy.

POL SCI 212 Staff

International Relations

3 credits

A survey of workings in the nation-state system; power politics; equilibrium mechanisms; organizational functionalism; Third World

POL SCI 213 Prof. Williams

Geopolitics 3 credits

(Recommended for background: GEOG. 134) A study of geographic factors in World History. Geographic factors in national power and international relations: an analysis of the role of "Geopolitics" with reference to the current world scene

POL SCI 215 Staff

Global Peace and War

3 credits

A search for the causes of war focusing on the scientific approach to building a theory of war. An examination of possible paths to peace including traditional recommendations for peace, recent contributions of the field of peace studies, and conflict resolution

POL SCI 217 Dr. Parente

Comparative Government

3 credits

(The political and government institutions of Britain, France, Germany, Italy and other West European countries; elections, parties, interest groups, bureaucracies contrasted with the American model.

POL SCI 218 Dr. Parente

East European Politics

3 credits

The history and politics of East Europe from Poland to the Balkans and from Germany to the Ukraine during the 20th century; ethnic politics before and after the communist period. The economics of the new privatization and its problems

POL SCI 221 Dr. Parente

Politics of South East Asia

3 credits

Domestic ethnic and religious politics of Southeast Asia and international politics affecting the region. The six ASEAN nations (Thailand, Indonesia, Malaysia, Philippines, Singapore, and Brunei) and Burma, the region's only socialist country; the three communist states of Indochina: Vietnam, Laos, and Cambodia. The American, Soviet and Chinese spheres of influence. Capitalism versus state socialism as a lever of economic development

POL SCI 222 Dr. Parente

Politics in Russia

3 credits

Russian politics and colonialism from the Revolution to contemporary economic efforts to move toward capitalism. The politics of the remnants of the Soviet empire are examined also. Stalin and the Bolshevik experiment.

POL SCI 227 Dr. Harris

Women, Politics and Policy

3 credits

A study of the role of women in politics and policy debates. Focuses on analyzing the increasing integration of women into politics and policy debates since their marginal participation in the 1960"s.

POL SCI 230 Dr. Champney

Environmental Policy

3 credits

Introduction to the study of environmental policy, including air pollution, water pollution, solid waste management, and the regulation of nuclear power. Emphasis on the role of legislative, executive, and judicial institutions in shaping the context of policy

POL SCI 240 Dr. Champney

Political Science Statistics I

3 credits

Discussion of the principles, concepts and rationale which underlie the "scientific" approach to the study of political phenomena. Introduction to the quantitative and statistical research strategies which this approach has generated, including simple contingency table analysis, the chi squared statistic and the gamma statistic

POL SCI 241 Dr. Champney

Political Science Statistics II

3 credits

(Prerequisite: P.S. 240) A detailed analysis of the quantitative and statistical research strategies which the "scientific" approach to the study of political phenomenon has generated, including simple correlation, partial correlation and multiple regression techniques

POL SCI 280 Dr. Homer Pre-Law Internship 3 credits

POL SCI 311 Staff

Introduction to American Law

3 credits

(An inquiry into the major theories of jurisprudence; development of American legal theory and practice; structure, functioning, and contemporary problems of the federal and state court systems

POL SCI 313-314 Dr. Kocis

Western Political Thought

6 credits

The roles of the state and society, the auxiliary agencies and functions of government as viewed by political philosophers from Plato to Marx

POL SCI 315 Dr. Kocis

Modern Political Thought

3 credits

A study of theoretical foundations of the three major political idea-systems identified with the twentieth century: communism, fascism and democracy

POL SCI 316 Dr. Kocis

Jurisprudence

3 credits

An examination of the differences between "the law" and "the laws"; the nature of legal systems; the nature and grounds of political, moral and legal obligations, and the controversy between the traditions of Natural Law and Positive Law.

POL SCI 322 Dr. Harris

Public Personnel

3 credits

(Prerequisites: P.S. 110, 130, 131, or permission of instructor) An examination of public personnel administration. Theories of organization, personnel policies, civil service history, and current issues in personnel administration are considered

POL SCI 324 Dr. Champney

Public Policy Analysis

3 credits

Analysis of the functions and methods of the public sector and a discussion of the effect of public sector activities on society and the economy of the United States. Particular emphasis is placed on "public problems vs. private problems" and on the desirable scope of governmental activities in a free society.

POL SCI 325 Dr. Harris

Politics of the Budgetary Process

3 credits

(Prerequisites: P.S. 110, 130, 131, or permission of instructor) Public budgeting in theory and in practice is discussed. Historical reforms and the inevitable politics of the process are considered. Use of budget simulations allow for practical experience

POL SCI 380-381 Staff

Political Science Internship

3-6 credits

Designed to broaden the educational experience of students by providing practical experience for them with various law firms, public agencies and institutions. Supervision by faculty member and agency supervisor.

POL SCI 384 Staff

Special Topics in Political Science

3 credits

Study and analysis of selected topics in the field of Political Science. The particular topic or topics will vary from year to year depending on the instructor and changing student needs

POL SCI 480 Dr. Champney

Public Administration Internship I

3 credits

Permission of faculty advisor and Dr. Champney required for internship registration.)

POL SCI 481 Dr. Champney

Public Administration Internship II

3 credits

Permission of faculty advisor and Dr. Champney required for internship registration.)

H/PS 213 Staff

Modern Africa 3 credits

An introduction to the vast and diverse continent of Africa. Attention to the history, geography, ecology and culture of the various African states with a focus on understanding the political systems of Africa in comparative perspective

H/PS 214 Dr. DeMichele

World Politics

3 credits

Deals directly with the political, economic, and social issues that are current in international affairs including the future possibilities of world order and the crises of foreign policy-making

H/PS 215 Dr. Homer

War and Modern Society

3 credits

Role of military force in international relations; historical background focusing on wars, American and European, of 19th and 20th century; theories of function of war; arms control and deterrence of war.

H/PS 216 Dr. Harris

Gender and the Workforce

3 credits

Historical, legal, and political perspectives of the movement of women into the workforce. The difficulties confronted by men and women on the job and in the family as women become a vital part of the workforce are discussed

H/PS 225 Drs. Earl, DeMichele

Ethnic & Racial Minorities in Northeastern Pennsylvania

3 credits

(See description under History.)

H/PS 227 Dr. Earl

Soviet Foreign Policy

3 credits

Examination of the course of Soviet Foreign Policy from 1917 to present. Analysis of forces, factors and motives that have molded Soviet history and its relations with other nations

H/PS 295 Dr. DeMichele

Britain: Past and Present 3 credits

(See description under History.)

H/PS 317-318 Dr. Kocis

American Constitutional and Legal History

6 credits

(Recommended for Background: History 110-111; HPS 317 is prerequisite for HPS 318) The judicial concepts of the colonial and revolutionary periods; backgrounds of the Federal Convention; the nature of the constitution, its interpretation by Marshall and Taney. The constitutional problems occasioned by the Civil War, the new amendments; the role of the States in a Federalist system. Key cases will be analyzed in detail and set in their proper historical perspective

H/PS 319-320 Dr. Hueston

American Diplomatic History

6 credits

(See description under History.)

H/PS 326 Dr. Parente

Modern China 3 credits

(See description under History.)

POL. SCI. 327 Dr. Champney

The U.S. Congress

3 credits

Historical development of the legislative branch of government; its prominence over the executive branch in the 19th century and decline in the 20th century. Emphasis on theories of representation and on the policy formulation process

H/PS 327 Dr. Parente

Modern Japan

3 credits

The history and politics of Japan. The period of the shoguns, the reforms of the modernizing Meiji era at the end of the 19th century. The Japanese effort to conquer Asia. The postwar political structure. Is Japan a democracy? The economic miracle of the present

POL. SCI. 329 Prof. J. Benestad

The American Presidency

3 credits

(Prerequisite: Pol. Sci. 131) This course will focus on the American Presidency-- historical development, powers of the office, elections, models of the presidency and, to a lesser extent, the relations between the President and congress, and the President and the judiciary

H/PS 331 Dr. DeMichele

English Constitutional and Legal History to 1485 to present

3 credits

Anglo-Saxon basis, fusion of Anglo-Saxon and Norman political institutions; Angevin innovations; Magna Carta; concept of representation; beginnings of the Common Law; jury system; content for government; emergence of Parliament; the refinement of government

H/PS 332 Dr. DeMichele

English Constitutional and Legal History, 1485 to Present

3 credits

Tudor absolutism; struggle between royal prerogative and Parliament; rise of the House of Commons; Parliamentary supremacy after 1688; development of Cabinet government; democratic reforms; Parliamentary Bill of 1911; extension of administrative law

H/PS 338 Dr. Parente

Politics of Islam

3 credits

The political ideology of Islam; the political content of the Koran; the effort to establish theocracies in a number of states from Iran to Egypt to Malaysia and Indonesia; Islam as a political opposition in such countries as the Philippines, Russia, and China; Shiite venus Sunni sects; the politics of Israel and the Islamic states of the Middle East; OPEC; the Palestinian question; political terrorism; Islam as an expansionist ideology.

H/PS 390 Prof. Williams

Seminar in International Studies

3 credits

Required for International Studies majors. Other advanced undergraduates may take course with permission of the professor.

GEOG. 134 Dr. Conover

World Regional Geography

3 credits

Introduces the major concepts and skills of geography. A regional approach stressed the five themes of geography including location, place, human environment interaction, movement, and region.

PSYCHOLOGY

DR. JAMES BUCHANAN, Chairperson

Psychology provides a unique educational experience of quality, breadth, and flexibility. Our curriculum has been carefully designed to give students a balanced education in the discipline and the widest range of options, from baccalaureate entry-level positions to graduate training in prestigious universities. According to a recent independent study, the number of our graduates who have gone on to receive doctorates in psychology has placed us in the top 5% of over 900 comparable institutions nationally.

Psychology majors are required to take Psych. 110, Psych. 210, and Psych. 330 with lab. Students also take a minimum of 5 courses from the following list with at least one course in each group: Physiological Processes (230, 231), Learning Processes (234, 235), Social-Developmental Processes (220, 221), and Individual Processes (224, 225). Students are free to choose from any of these or the remaining psychology courses to fulfill the 4 additional course requirements in the major. Completion of two optional psychology laboratory courses constitutes an elective course. Students are encouraged to take Psych. 493-494, Undergraduate Research, in their junior or senior year.

The Psychology Department encourages students to tailor their programs to their own needs and interests. For example, students interested in marketing, personnel, or industrial-organizational psychology may elect a special Business Minor and recommended courses in psychology. Interdisciplinary programs, such as the Human Development Concentration, and dual majors are also available with a number of other departments

The Clinical Track in psychology is a structured sequence of courses providing a synthesis of scientific knowledge, interpersonal development, and clinical experience. The track is designed for psychology majors seeking entry-level employment or graduate training in clinical, counseling, community, or school psychology. The required courses are: Psych. 225; HS 241; Psych. 360; Psych. 335; Psych. 480; and one from Psych. 284, Psych. 384, HS 421, HD 335, and HD 234

The Biopsychology Track provides curricular direction and awards transcriptable recognition to psychology majors interested in the biological bases of behavior. The track requires: Psych. 221; Psych. 225; Psych. 231 with lab; two Psychology courses with labs; Biol. 140-141; and Chem. 112-113. Students are strongly encouraged to take Math 114 to meet the departments math requirement.

The Cognitive Track in psychology is designed for students interested in human cognition and cognitive science. The track encompasses the five traditional areas of Cognitive Science-Cognitive Psychology, Neuroscience, Computer Science, Philosophy, and Linguistics-and is designed for students seeking both entry-level employment and graduate training in cognitive psychology, human factors, or cognitive science. The required courses are: Psych. 234 and Psych. 234 lab; Psych. 230 and Psych. 230 lab; Psych. 231; CMPS 114; and Phil. 215. Additional recommended courses are Lang. 217, Psych. 221, and Psych. 284

Consult your advisor and the Psychology Handbook for details on these programs

Because of duplicate material covered in psychology courses, psychology majors should<u>not</u> take the following courses: HS 111, HS 242, HS 293, and HS 323

MINOR. A minor in psychology consists of Psych. 110, Psych. 210 (or an equivalent statistics course), Psych. 330 lecture, one psychology elective, and one course from 3 of the following 4 groups: Physiological Processes (230, 231), Learning Processes (234, 235), Social-Developmental Processes (220, 221), and Individual Processes (224, 225). Total: 21 credits

PSYCH. 110 Fundamentals of Psychology Staff 3 credits

An introduction to the scientific study of behavior through a survey of psychology's principal methods, content areas, and applications. Course requirements include participation in psychological research or preparation of a short article review

PSYCH. 210 (Area I)

Drs. Baril, Dunstone, Hogan

Psychological Statistics

3 credits

An introduction to the basic statistics used in the behavioral sciences, including descriptive statistics, correlation, sampling, hypothesis testing, and inferential statistics. Fall and Intersession only.

PSYCH. 220 Social Psychology

Dr. Baril 3 credits

(Prerequisite: Psych. 110) Social determinants of behavior from a psychological perspective. Topics include liking, love, conformity, persuasion, attitude change, and person perception. Spring only.

PSYCH. 221

Dr. Buchanan

Childhood and Adolescence 3 credits
(Prerequisite: Psych. 110) Survey of psychological research dealing with the development and

(Prerequisite: Psych. 110) Survey of psychological research dealing with the development and behavior of children from infancy to adolescence. The physical, cognitive, and social aspects of development, from infancy to adolescence, are considered

PSYCH. 222

Dr. Buchanan

Adulthood and Aging

3 credits

(Prerequisite:Psych. 110) Survey of psychological research dealing with the age-graded aspects of behavior in adulthood. Course will consider the physical, cognitive, and social aspects of the aging process from late adolescence to death. Topics include occupation selection, marriage, parenthood, middle age, retirement, and dying. Spring only

PSYCH. 224 Staff

Personality 3 credits

(Prerequisite: Psych. 110) A survey and critical evaluation of personality and its implications for assessment, psychotherapy, and research

PSYCHOLOGY Dept. and No.

No. Descriptive Title of Course

Credits			
	FRESHMAN	FALL	SPRING
Psych. 110-Elective	Fund. of PsychPsych.		
	Elective	3	3
Math 109	Quantitative Methods		4
Soc. 110 *	Intro. to Sociology *	3	
Communications	Electives	3	3
Humanities	Electives	3	3
Phil. 120-T/RS 121	Intro. to PhilTheol. I	3	3
Ph. Ed.	Physical Education	1	1
		16	17
	SOPHOMORE		
Psych. 210-330	Statistics-Research Method		5
Psychology	Psychology Electives	3	3
Science Electives**	Elective-Elective * *	6	3
Elective	Elective		3
	Technical & Business Writi	ng * 3	
Ph. Ed.	Physical Education	11	1
		16	15
	JUNIOR		
Psychology		6	9
Elective	Electives		6
Elective *	Elective *	3	
	Psych. 110-Elective Math 109 Soc. 110 * Communications Humanities Phil. 120-T/RS 121 Ph. Ed. Psych. 210-330 Psychology Science Electives** Elective Wrtg. 211* Ph. Ed. Psychology Elective	Psych. 110-Elective Math 109 Soc. 110 * Communications Humanities Phil. 120-T/RS 121 Ph. Ed. Psych. 210-330 Psychology Science Electives** Elective Wrtg. 211* Ph. Ed. FRESHMAN Fund. of PsychPsych. Elective Quantitative Methods Intro. to Sociology * Electives Electives Intro. to PhilTheol. I Physical Education SOPHOMORE Statistics-Research Method Psychology Electives Elective Elective Felective Technical & Business Writi Physical Education JUNIOR Psychology Elective Electives Electives Electives Electives	Psych. 110-Elective FRESHMAN FALL Fund. of PsychPsych. Elective 3 Math 109 Soc. 110 * Communications Humanities Phil. 120-T/RS 121 Ph. Ed. Psych. 210-330 Psychology Science Electives Elective Wrtg. 211* Ph. Ed. FRESHMAN FALL Fund. of PsychPsych. Elective Sociology * Statistice Research Elective Elective Elective Wrtg. 211* Ph. Ed. FRESHMAN FALL Fund. of PsychPsych. Electives 3 Quantitative Methods Electives 3 Electives 3 Electives 3 Electives 4 Elective Elective Elective Frechnical & Business Writing * 3 Physical Education 1 Tochnical & Business Writing * 3 Tochnical & Bu

GE AREA IV	Humanities	Elective	3	
GE AREA V	Phil. 210- Phil. 430 or 431	Ethics-Phil. of Social and Behavioral Science or Phil.		
		of Science	3	3
			<u>18</u>	18
		SENIOR		
MAJOR	Psychology	Elective	3	
COGNATE	SSCI 490-SSCI 491	History &Lit. of Psych. I-II	2	1.5
GE AREA II	Elective *	Elective *		3
GE AREA IV	Humanities	Electives	3	6
GE AREA V	T/RS 122-T/RS-Phil.	Electives	3	3
GE FREE	Electives	Electives	6	3
			17	16.5

TOTAL: 133.5 credits

- The Department recommends that students acquire a broad background in Area II by selecting courses from at least two departments in the socialbehavioral sciences and that students strengthen their writing skills by completing a second writing course. The Psychology faculty strongly recommends Sociology 110, Wrtg. 211, and Phil. 430 or Phil. 431 in particular. Unless exempt from the University requirement, students must take Comm. 100 and Engl. 107.
- Combinations of Biol. 101 & 102, or Biol. 201 and another science elective from the Biology, Chemistry, and Physics departments are required

PSYCH. 225 Abnormal Psychology

Drs. Alford, Norcross 3 credits

(Prerequisite: Psych. 110) A comprehensive survey of mental and behavioral disorders from biological, psychological, and sociocultural perspectives. The course will consider diagnosis and labeling, overview of specific disorders, and various treatment approaches

PSYCH. 230 (Area I) **Sensation and Perception**

Dr. O"Malley 3-4 credits

(Prerequisite: Psych. 110) Concerns the study of sensory mechanisms and perceptual phenomena. Optional lab entails supervised individual experimentation. Three credits lecture and optional one credit laboratory. Lab fee. Spring only

PSYCH. 231 (Area I) **Behavioral Neuroscience**

Dr. Cannon

3-4.5 credits

(Prerequisite: Psych. 110 or Biol. 141-142) Introduction to the field of neuroscience examining the cellular bases of behavior, effects of drugs and behavior, brainbody correlates of motivation and emotion, and neural changes accompanying pathology. Three hours lecture and optional 1.5 credit laboratory. Lab fee. Fall only.

PSYCH. 234 Cognitive Psychology

Dr. Buchanan 3-4 credits

(Prerequisite: Psych. 110) Considers a number of approaches to the study of human cognitive processes with an emphasis on the information processing model. Topics include pattern recognition, attention, memory, imagery, concepts and categories, and problem solving. Three credits lecture and optional one credit laboratory. Lab fee. Fall only

PSYCH. 235 (Area I) **Conditioning and Learning**

Dr. Dunstone

3-4.5 credits

(Prerequisite: Psych. 110) Concerns the experimental study of both classical and instrumental conditioning. Optional lab involves supervised animal and human experimentation. Three credits lecture and optional 1.5 credit laboratory. Lab fee. Spring only

PSYCH. 236 Industrial/Organizational Psychology Dr. Baril 3 credits

(Prerequisite: Psych. 110) The psychological study of people at work. Topics include personnel selection and training, motivation, leadership, the physical work environment, and computer applications. Fall only.

PSYCH. 237

Dr. Williams-Quinlan

3 credits

Psychology of Women

(Prerequisite: Psych. 110) Examines the biological, sociological, and cultural influences on the psychology of women. Topics include gender socialization, sex roles, and the impact of gender on personality, communication, achievement, and mental health. Fall only

* * *Special Topics in Psychology courses are developed by individual faculty to provide in-depth coverage of a specific area. Prerequisites are Psych. 110 and at least sophomore status. This course and Psych. 384 may only be used once to satisfy major elective requirements

PSYCH. 284 Drs. Norcross & Cannon

Special Topics: Behavior Modification 3 credits

PSYCH. 284 Dr. O"Malley Special Topics: Sports Psychology 3 credits

PSYCH. 284 Dr. Waddill Special Topics: Psychology of Language 3 credits

* * *PSYCH. 330 Drs. Baril. Cannon

Research Methods in the Behavioral Sciences

5 credits

(Prerequisites: Psych. 110 & 210) A survey of scientific method and research design in the behavioral sciences. Topics include single subject, survey, correlational and experimental research. Lecture and lab involve computerized data analyses. Lab also includes supervised research and scientific writing. Three credits lecture, two credits laboratory. Lab fee. Spring only

PSYCH. 335 Dr. Norcross

Psychological Testing

3 credits

(Prerequisites: Psych. 110 & 210) Provides a thorough grounding in principles of testing and a review of the major types of assessment, including intellectual, personality, and interest. Spring only.

PSYCH. 360 Dr. Norcross
Clinical Psychology 3 credits

(Prerequisites: Psych. 110 & 225) An overview of contemporary clinical psychology focusing on its practices, contributions, and directions. Topics include clinical research, psychological assessment, psychotherapy systems, community applications, and emerging specialties, such as health and forensic psychology. Fall only.

* * *Special Topics courses are developed by individual psychology faculty to provide in-depth coverage of a specific area. Prerequisites include Psych. 110, at least sophomore status, and other psychology courses determined by the instructor. This course and Psych. 284 may only be used once to satisfy major elective requirements

PSYCH. 384 Dr. Cannon Special Topics: Psychopharmacology 3 credits

(Prerequisite: Psych. 231)

PSYCH. 384 Dr. Alford Special Topics: Cognitive Psychotherapies 3 credits

(Prerequisite: Psych. 225)

PSYCH. 384 Dr. Hogan Special Topics: Multivariate Statistics 3 credits

(Prerequisite: Psych. 210)

* * *PSYCH. 480 Drs. Norcross, Alford Field Experience in Clinical Psychology 3 credits

(Prerequisites: Psych. 360, HS 241, and permission of instructor) This course entails supervised field experience in a mental health or social service facility in the community. Students are required to spend 8 hours a week at their placement and 1.5 hours a week in a seminar throughout the semester. Limited to juniors and seniors

Dr. Baril **PSYCH. 481**

Field Experience in Personnel Psychology

3 credits

(Prerequisites: Psych. 236 & 335, Mgt. 361, and permission of the instructor) This course entails supervised field experience in a personnel office. Students are required to spend 10 hours a week at their placement and one hour periodically throughout the semester in a seminar. Limited to juniors and seniors.

SSCI 490 Dr. O"Malley

History and Literature of Psychology I

2 credits

(Prerequisites: Senior status; psychology major or minor) This lecture and discussion course will examine the history of modern psychology from pre-Socratic philosophers to contemporary perspectives. Emphasis will be placed on the influential works of various schools of thought that have shaped the emergence of psychology.

SSCI 491 Staff

History and Literature of Psychology II

1.5 credits

(Prerequisite: Social Science 490) This seminar, designed for students with a major or minor in psychology, will entail critical reading, analysis, and discussion of selections from the seminal literature in psychology, including selected works of William James, Sigmund Freud, and B.F. Skinner. Individual professors will choose additional readings on the basis of their interests and student preference.

PSYCH. 493-494 Staff

Undergraduate Research

3-6 credits

(Prerequisites: Psych. 330; average grade of B or better in Psych. 210, Psych. 330 lecture, and the Psychology course most revelant to research topics; and permission of professor) Individual study and research on a specific topic under the supervision of a faculty member. Students are expected to spend a minimum of 10 hours a week on research activities throughout the semester. Limited to juniors and seniors.

SOCIOLOGY

PROF. PRYLE, Chairperson

Courses in Sociology are designed to meet the intellectual and career interests of students who are concerned about what is happening in their society and in their daily personal interaction with other people. In addition, the courses are designed to help the student interested in the field of Social Work, Human Services, Industrial Organization, Urban Planning, etc., to attain a preprofessional orientation to these fields

Students interested in Urban Planning are advised to include Soc. 116, 224, and 231 in their planning; for Social Work, Soc. 234, 115, 116, 118, and 224; for Medical Services Administration, Soc. 216, Gero. 212, 216, 218, and 230; for Personnel Relations Administration, Soc 226, 227, and 228.

The Department of Sociology/Criminal Justice also administers the Criminal Justice major described earlier and the Gerontology major described on the next page.

Dept. and No	Descriptive Title of Course		edits ALL	SPRING
MAJOR	Soc. 110-112	Introduction to SocSocial	ALL	SI KING
		Problems	3	3
COGNATE	Psych. 110	Fundamentals of Psychology	3	
GE AREA I	Nat. Sci./Quant.	Elective*		3
GEAREA III	Communications	Electives*	3	3
GE AREA IV		Electives	3	3
GE AREA V	Phil. 120	Introduction to Philosophy	3	0
GE AREA V	T/RS 121	Theology I	4	3
PHYS EDUC	Ph. Ed.	Physical Education	<u>1</u> 16	<u>1</u> 16
		SOPHOMORE	10	10
MAJOR	Soc. 318-Soc. Elective	Sociological Theory-Elective	3	3
MAJOR	Sociology	Electives	3	3
COGNATE	HS 241-Soc.Sci.	Case Mgmt. & Interviewing	Ü	Ū
		Soc. Sci. Elective	3	3
GE AREA III	Communications	Elective	3	
GE AREA IV	Humanities	Elective	3	
GEAREAV	Phil. 210	Ethics		3
GEAREAV	T/RS 122	Theology II		3
PHYS EDUC	Ph. Ed.	Physical Education	1	1
			16	16
		JUNIOR		
MAJOR	Soc. 211-Soc. Elective	Methods of Social Research-		
WINGOIN	GOC. 211 GOC. Elective	Elective	3	3
COGNATE	Pol. Sci.	Political Science Elective	3	O
GE AREA I	Nat. Sci./Quant.	Electives	3	3
GE AREA IV		Electives	3	3
GE AREA V	Phil. T/RS	Phil. and/or Religious Studies	3	3
GE FREE	Electives	Electives	3	3
			<u>18</u>	15
		0511100		
MAJOR	Soc 490 491*/Floor	SENIOR	2	2
MAJOR COGNATE	Soc. 480, 481*/Elecs. Soc. Sci. Elec.	Internship/Elective Electives	3 6	3 6
GE AREA IV	Humanities	Electives	3	3
GE FREE	Electives	Electives	3	3
J	03.1700		15	15

TOTAL: 127 credits

* Department Recommendation

In GEAREAI, the department recommends Biology 101 and 102, 103 and 196, Nursing 100, In GEAREAIII, the department recommends Comm. 100, Engl. 107, and CMPS 104. In the COGNATESocial Science Electives, the department recommends a mix of Human Services, Criminal Justice, Gerontology, and Psychology electives, especially Psych. 224; Personality; Pol. Sci. 240: Statistics I.

GERONTOLOGY

The degree program in Gerontology has the following objectives:

- to understand the processes of aging;
- 2. to prepare for careers in agencies and institutions serving the older adult, such as Area Agencies on Aging, Family Services, Long Term Care facilities, Telespond Senior Services,
- to provide a liberal gerontology education with special emphasis on the development of the whole person;
- to provide students with academic preparation for advanced study in gerontology, social work, public administration, social welfare, and related fields

The Scranton area is especially suited to serve as a laboratory setting for gerontology education with its high proportion of older adults and its many agencies and facilities for the same. The department has established an Advisory Board in Gerontology composed of practitioners in the field: health specialists, community leaders, and senior citizens. The Advisory Board will help to ensure that the program curriculum is current

Dept. and No. Credits		Descriptive Title of Course			
	Ordano	FRESHMAN	FALL	SPRING	
MAJOR	Soc. 110-Gero. 110	Intro. to Sociology			
		Intro. to Gerontology	3	3	
COGNATE	Psych. 110-HADM 112	Fundamentals of Psych.	•		
CE ADEA I	Nat. Sci./Quant.	Health Systems Elective	3	3	
GE AREA I GE AREA III	Communications	Elective	3	3	
GE AREA IV	Humanities	Elective	3	3	
GE AREA V	Phil. 120	Introduction to Philosophy	3		
GE AREA V	T/RS 121	Theology I		3	
PHYS EDUC	Ph. Ed.	Physical Education	1	1	
			16	16	
		00011011005			
MAJOD	0.000	SOPHOMORE	•		
MAJOR MAJOR	Gero. 230 Gero. 232	Social Policy and Aging	3	2	
MAJOR	Gerontology	Aging and Death Electives	3	3	
COGNATE	HS 241	Case Management and	3	3	
00011/112	InterviewingSoc. 228	Social Psychology	3	3	
GE AREA III	Communications	Elective	3	•	
GE AREA IV	Humanities	Elective	3		
GE AREA V	Phil. 210	Ethics		3	
GE AREA V	T/RS 122	Theology II		3	
PHYS EDUC	Ph. Ed.	Physical Education	1	<u> </u>	
			16	16	
		JUNIOR			
MAJOR	Soc. 211-	Methods of Social Researc	h		
W/WOOT	Gero. 218	Health and Aging	3	3	
COGNATE	Psych. 222	Adulthood & Aging	3	· ·	
COGNATE	Soc. 224	American Minority Groups		3	
GE AREA I	Nat. Sci./Quant.	Electives	3	3	
GE AREA IV	Humanities	Electives	3	3	
GE AREA V	Phil-T/RS Elec.	Electives	3	3	
GE FREE	Elective	Elective		3	
			18	15	

		SENIOR		
MAJOR	Gero. 480, 481 */Elecs.	Internship/Elective	3	3
MAJOR	Gerontology	Electives	3	3
COGNATE	Soc. Sci. Elec.	Electives	3	3
GE AREA IV	Humanities	Electives	3	3
GE FREE	Electives	Electives	3	3
			15	15

TOTAL: 127 credits

In GE AREA I, the department recommends Biol. 101, 102, 103, 196, 201, 202 and NURS. 100: Family Health. In GE AREA III, the department recommends Comm. 100 and Engl. 107. In the COGNATE as Social Science Electives, the department recommends HS 321, HADM 311; Sociology 112, 115, 116, 216.

MINORS

SOCIOLOGY: A minor in Sociology will require fifteen credits in sociology. There are two required courses: Soc. 110: Introduction to Sociology, and Soc. 318: Sociological Theory. The following elective courses are strongly recommended in the sociology sequence: Soc. 234: Cultural Anthropology, Soc. 231: Urban Sociology, Soc. 224: American Minority Groups, and Soc. 226: Sociology of Work and Professions

GERONTOLOGY: A minor in Gerontology will require eighteen credits. There are three required courses: Soc. 110: Introduction to Sociology; Gero. 110: Introduction to Gerontology; and Gero. 230: Social Policy and Aging. The following elective courses are strongly recommended by the department in the gerontology sequence: Gero. 218: Health and Aging; Gero. 216: Aging and the Community; Gero. 212: Aging & the Life Cycle; Gero. 232: Aging and Death

SOC. 110 Staff

Introduction to Sociology

3 credits

Fundamental principles in the field of sociology. Stratification, ethnicity, deviance; basic institutions of society; social change and demographic trends

SOC. 112 Staff

Social Problems 3 credits

Application of sociological principles to major issues in contemporary society

SOC. 115 Prof. Pryle

Introduction to Social Work

3 credits

Growth of social work as a professional endeavor. The scope of social work; casework in the medical, psychiatric, family and child welfare, and guidance fields, community organization, social research, social planning, social group work. Current trends in social work

SOC. 116 Prof. Pryle

Community Organization

3 credits

A general introduction to the field and process of community organization, both as a field of social work and as a field of human endeavor. The coordination and financing of welfare activities, methods of appraising community needs and resources, planning and the initiation of welfare services. Services of a voluntary and governmental nature, strategies of power

SOC. 118 Ms. Phillips, Prof. Pryle

Child Welfare 3 credits

Development of child welfare in the United States. Educational, health, recreational and child labor regulations. Study and treatment of children in their own homes, foster homes and institutions. Child care and protective programs on federal, state and local levels

SOC. 132 Dr. Rynn Introduction to Archaeology 3 credits

^{*} Department Recommendation-The Gerontology Internship may be taken in either the junior or senior years, or both (not to exceed a maximum of six credits of internship)

An introduction to the study of archaeology from anthropological and historical perspectives. Areas to be explored include survey and site recognition, excavation planning, record keeping, treatment of artifacts and above-ground archaeology.

SOC. 210 Drs. Rielly, Rynn

Marriage and the Family

3 credits

An historical, comparative, and analytical study of marriage and family institutions. Problems of courtship, mate selection, and marriage adjustment in modern society

SOC. 211 Drs. Rielly, Wright

Methods of Social Research

3 credits

This course is designed to help the student understand the range of research methods used in sociological and gerontological research/investigations and evaluate their strengths and weaknesses. It will also help students to appreciate some basic problems involved in the collection and analysis of data.

SOC. 212 **Prof. Pryle**

Religion and Society

3 credits

A survey of religious systems and their interrelations with society and social institutions, with emphasis on the social consequences and determinants of religious behavior. The theories of Durkheim, Weber, Parsons, Bellah, Berger and Luckman will be examined

Dr. Talamini **SOC. 214**

Sociology of Sport

3 credits

The role of sport in civilized societies; sport as work and recreation; women and minorities in sport; sport in education; sport and the mass media

SOC. 216 Prof. Pryle

Medical Sociology

3 credits

The social dimensions of health and illness; role of physician, nurse and patient; social organization of health services; the content of medical practice; culture and health disorders; mental health and mental illness.

SOC. 224 Drs. Rynn, Rielly

American Minority Groups

3 credits

Patterns of adjustment between ethnic and racial groups, with special attention given to the American scene. Prejudice and discrimination as opposed to the democratic ideology

SOC. 226 Dr. Talamini

Sociology of Work and Profession s

3 credits

The nature and role of contemporary professions, occupational choice, career patterns and occupational mobility; the relationship between education, occupation, profession and aspirations

SOC. 227 Dr. Rynn

Business and Society

3 credits

Modern industrialism as social behavior. Social conditions in the rise of industrialism and their effect on the worker; collective bargaining and industrial conflict, the industrial community; social classes and the industrial order. This course will also show how the business sector impacts on society and on the globalization of the economy.

SOC. 228 Dr. Rynn

Social Psychology

3 credits

Study of individual behavior as affected by cultural and social stimuli. Emphasis on the analysis of human conduct in social settings.

SOC 229 Dr. Reilly

Crisis in Population

3 credits

A study of the basic variables of population, birth, death and migration, socioeconomic and cultural variables affecting population, growth, projections and forecasts. The chief natural and social demographic theories. Population policies and practices in selected world areas

SOC 231 Dr. Rielly, Prof. Pryle **Urban Sociology**

3 credits

Urban ecology and culture as the dominant form of community life in contemporary society; their characteristics, peculiarities, and problems

SOC 234 Drs. Rielly, Rynn Cultural Anthropology 3 credits

Cultural and social organization among primitive or preliterate societies; marriage, property, religion, magic and tribal control. Significance of the study of primitive cultures for understanding of urban industrial civilizations.

SOC 235

Peoples of East Asia

Dr. Rynn
3 credits

The anthropology of the East Asian culture area, focusing particularly on China and Japan. Topics include basic social institutions, world views, culture and personality, and the problem of modernization.

SOC 284 Staff

Special Topics in Sociology

Courses designed to meet specific needs of individual students or courses offered on a trial basis to determine the value of placing them into the regular curriculum. Prerequisite: consent of the Chairperson and the Instructor.

SOC 318 Dr. Reilly Sociological Theory 3 credits

An examination of the major theoretical developments in sociological theory from the classical period of Marx, Weber, and Durkheim to contemporary schools such as structural-functionalism, conflict theory, exchange theory and symbolic interaction

SOC 382-383 Staff

Independent Study in Sociology

3 credits

Designed for advanced students who are capable of independent study. A program of planned research under the guidance of a faculty member. Registration upon approval of Chairperson and Instructor.

SOC 480-481 Dr. Rielly Internship in Social Work 3 credits

Supervised experiential learning designed to broaden the educational experience of students through practical experience and work assignments with governmental andor community agencies in the field of social work. Supervision by a faculty member and agency supervisor. Limited to juniors and seniors. Prerequisite: permission of Instructor

Approved courses from other curricula: Sociology

majors may be advised to choose several courses taught in the Criminal Justice sequencecourses so approved include:

S/CJ. 210 Law and Society

S/CJ. 213 Criminology

S/CJ. 214 Juvenile Delinquency

S/CJ. 218 The American Court System

S/CJ. 220 Penology: Corrections

S/CJ. 221 Probation & Parole

S/CJ. 224 Sociology of Deviance

S/CJ. 225 White Collar Crime

S/CJ. 227 Organized Crime Patterns

S/CJ. 317 Trial, Jury and Counsel

S/CJ. 324 Victimology

GERONTOLOGY COURSES

GERO. 110 Dr. Rielly, Prof. Pryle

Introduction to Gerontology

3 credits

A multi-disciplinary examination of the cognitive and affective aspects of the aging process. The course covers the social, physiological, psychological, economic, and health aspects of aging, as

well as service delivery systems. It explores planning and action strategies aimed at enhancing the quality of life, and providing more adequate benefits and services for the older adult

GERO. 112 Dr. Rielly, Dr. Talamini

Social Problems of Aging

3 credits

This course is devoted to a study of the specific problems of the aged in American society, with particular attention at both individual and societal levels to issues of age, inequality in opportunities and rewards; of mental health, housing, minorities, and institutions; of crime and fear of victimization; of economic status, work, leisure, and retirement; of attractiveness, aging and sexuality; of drugs, doctors, nursing homes and hospitals

GERO. 210 Dr. Rynn

Aging in Anthropological Perspective

3 credits

A cross-cultural approach looking at the ways in which a variety of societies deal with aging and the aged. The issues of work, economics, other types of expertise, and different definitions of the aged are analyzed.

GERO. 212 Dr. Talamini

Aging and the Life Cycle

3 credits

Rites of passage, age norms, and role rehearsals for life transitions, the life cycle in comparative cultures; sociological dimensions of adulthood and aging concerning the work cycle, sport and leisure development, patterns of consumer behavior and life style, and the family cycle

GERO. 214 Mr. Germain

Aging and Human Behavior

3 credits

A critical examination of life satisfaction in old age; the social and psychological factors which affect it; factors contributing to the psychological well-being of older adults as a function of their position in the social system.

GERO. 216 Prof. Pryle

Aging and the Community

3 credits

Consideration of selected community strategies effecting desired changes in the development and implementation of social services and programs for the elderly: legislative action, interagency relationships, the citizen role.

GERO. 218 Mr. Germain, Prof. Pryle
Health and Aging 3 credits

An explorative study of the mental and physical health problems prevalent in the older adult population, with emphasis upon the preventive aspect of health care as applied by themselves and health care providers. Health care approaches appropriate to the various problems, and relevant resources within the home and community are considered

GERO. 220 Atty. Cimini Crime and Aging 3 credits

A consideration of crime as it affects aging; examining the older adult as victim, offender, practitioner, and perpetrator, in light of current thought, policy, and law

GERO. 230 Prof. Pryle

Social Policy and Aging

3 credits

Review of major legislation affecting older adults, including Social Security Act, Older Americans Act, Medicare, and various local, state, and national programs for the aged

GERO. 232 Dr. Rielly
Aging and Death 3 credits

This course offers the student an opportunity to explore the mystery and meaning of death. Focus is on a number of aspects of dying and the death process, such as the dying individual and the family; cross-cultural perspectives; terminal illness; professions and death; rites and rituals

GERO. 284 Staff

Special Topics in Gerontology

Courses designed to meet specific needs of individual students or courses offered on a trial basis to determine the value of placing them into the regular curriculum. Prerequisite: consent of the Chairperson and the Instructor.

GERO. 382-383 Staff

Independent Study in Gerontology

3 credits

Designed for advanced students who are capable of independent study. A program of planned research in gerontology under the guidance of a faculty member. Registration upon approval of Chairman of the department and the instructor directing the study

GERO. 480-481 Dr. Rielly Internship in Gerontology 3 credits

Supervised experiential learning in one or more organizations that serve older adults. Supervision by a faculty member and agency supervision required. Limited to juniors and seniors. Prerequisite: permission of instructor.

THEOLOGY AND RELIGIOUS STUDIES

FR. ROUSSEAU, S.J., Chairperson

The religious dimension of human life is of such importance that it is necessary to explore it in a liberal arts curriculum.

The General Education requirement for all students at the University is six credit hours in theology. This is fulfilled by T/RS 121-122, a two-semester introductory sequence. Additionally, students must take another six hours in either philosophy or theologyreligious studies to complete the GE AREA V requirements. In addition to courses with a primarily Christian focus, the department also offers courses which deal with non-Christian religious traditions, among which are TRS 314: The Religions of the World and T/RS 333: The Jewish Way of Life.

The Bachelor of Arts degree in Theology/Religious Studies requires 30 credits in the major including the introductory courses required of all students. To ensure a well rounded background in the discipline, each major must take at least one course in each of the 4 categories listed below. Each major is expected to confer with the departmental chairperson for the selection and balancing of courses. The department also offers a double major program compatible with most other majors. It has similar requirements.

Departmental Courses are grouped into the following categories

Biblical (XXI-X09) Historical (XI0-X19) Systematic(X20-X29) Moral (X30-X39)

T/RS 121-122 Staff
Theology I-II 3-3 credits

A two-semester introduction to theology. The first semester course focuses on Bible and Tradition, studying key books and themes of the Old and New Testaments. The second semester course focuses on Creed and Practice, surveying major elements of systematic theology (e.g., Creation and Redemption) and Christian life (e.g., The Sacraments and Morality)

T/RS 200 Staff

Inside the Old Testament

3 credits

An introduction to and readings in the whole range of Old Testament literature with special attention to its literary form, historical context, and levels of meaning

T/RS 201 Staff

Inside the New Testament

3 credits

An introduction to and readings in the whole range of New Testament literature with special attention to its literary form, historical context, and levels of meaning

T/RS 204 Dr. Frein, Fr. Barone

Pauline Letters 3 credits

An introduction to the writings of the Apostle Paul, exploring Jewish and Greco-Roman influences on his letters as well as his contribution to basic Christian beliefs and practices

T/RS 205 Fr. Barone

The Gospels and Jesus

3 credits

An historical-critical study of the synoptic gospels. The historical figure of Jesus of Nazareth as perceived in the resurrection faith of the early Christian communities. Film and slide presentations of archaeological discoveries relevant to New Testament era

T/RS 206 Dr. Frein

The Four Gospels

3 credits

A study of the four Gospels from the perspectives of history, theology, and literature

T/RS 210 Fr. Rousseau, S.J.

The Christian Religions Tradition

3 credits

A study of the vital growth of Christianity's life, doctrine, worship and spirituality over the centuries. Special emphasis will be placed on principal leaders, thinkers and heroes

T/RS 211 Dr. Benestad

Great Books I: Perspectives on Western Culture

3 credits

The religious, philosophical and political writings of major thinkers of the Western tradition. The first semester includes the study of the Bible, Aristotle's Ethics, Plato's Apology, Augustine's City of God, and the thought of Aquinas. Emphasis is on the study of these works as they illuminate the current world. The second semester description is found under Phil. 159

T/RS 212 Fr. Linehan, S.J.

Saints and Holiness

3 credits

An inquiry into the nature of Christian sanctity by an examination of the lives and accomplishments of traditional saints and of contemporary persons who respond to the Gospel message

T/RS 213 Fr. Sable, S.J.

American Catholic Thought

3 credits

The major themes of American Catholic tradition from colonial times to the present are placed in their historical, religious, social and political context

T/RS 214 Fr. Linehan, S.J.

European Catholic Thought

3 credits

The major themes in the development of thought in Catholic Western Europe from the Reformation through the twentieth century in their historical, religious, social, and political context

T/RS 215 Fr. Linehan, S.J.

Monks in Civilization

3 credits

The monastic tradition and its influence on the Church from its desert origins through the era of Benedict and his Rule and its development through the lives of such figures as Dominic, Francis, Ignatius and Vincent dePaul up to modern times

THEOLOGY/RELIGIOUS STUDIES

Dept. and No.		Descriptive Title of Course		Credits
-		FRESHMAN	FALL	SPRING
MAJOR	T/RS 121-122	Theology I/Theology II	3	3
COGNATE	Electives	Electives	3	3 3
GE AREA I	Nat. Sci./Quant.	Elective		3
GE AREA II	Social/Behavior	Elective	3	
GE AREA III		Elective	3	3 3
GE AREA V		Introduction to Philosophy		3
GE FREE	Elective	Elective	3	
PHYS EDUC	Ph. Ed.	Physical Education	11	<u> </u>
			16	16
		SOPHOMORE		
MAJOR	T/RS	Second Year Electives	3	3
COGNATE	Electives	Electives		3 3 3 3
GE AREA I	Nat. Sci./Quant.	Electives	3 3 3 3	3
GE AREA II	Social/Behavior	Electives	3	3
GE AREA II	Communication	Elective	3	
GE AREA V	Phil. 210	Ethics		3
PHYS EDUC	Ph. Ed.	Physical Education	1	<u> </u>
			16	16
		JUNIOR		
MAJOR	T/RS	Electives	6	6
COGNATE	Electives	Electives	3	3
GE AREA II	Social/Behavior	Elective	3	
GE AREA IV	Humanities	Electives	6	6
_			<u>18</u>	15
		SENIOR		
MAJOR	T/RS	Electives	3	3
COGNATE	Electives	Electives	3	3 3

GE AREA IV Humanities	Electives	3	3
GE AREA V Philosophy	Philosophy Electives	3	3
GE FREE Electives	Electives	3	3
		15	15

TOTAL: 127 credits

MINOR: The minor in T/RS requires 12 credits beyond the introductory sequence, preferably spread over several areas.

T/RS 216 Fr. Quinnan

Western Theological Movements

3 credits

The principles of Christian theology are contained within the books of Sacred Scripture and Tradition but the expression of these principles are developed differently according to the specific needs of each age. This course will examine the theological method of some major Christian theologians of the western church in the context of the time period in which they lived. While the theologian and his/her method forms the focus of this course, the theme of the relationship between church and society (as presented by the theologian) will be used to focus and order the course.

T/RS 220 Fr. Begley, S.J.

Spirituality: Liturgy and Sacraments

3 credits

A basic course in sacraments which will explore the human religious experience of the faith community and its expression in sacramental celebration. Two features of the Rite of Christian Initiation of Adults, its process orientation and the role of the community, will serve as basis for the examination of new sacramental models. Throughout the course, specific attention will be given to the development of a sacramental spirituality.

T/RS 221 Dr. Steele

Prayer 3 credits

Introduction to the nature, purpose, and method of prayer in the Catholic Christian tradition

T/RS 224 Dr. Kopas, o.s.f.

Theology of the Person

3 credits

A study of the religious dimensions of personal existence that correlates Christian tradition and contemporary experience. The course develops the topics of identity, self-understanding, creatureliness, sin and the influence of gender on a theological interpretation of personhood

T/RS 225 Fr. Sable, S.J.

Introduction to the Theology of the Byzantine Churches

3 credits

The Byzantine theological tradition develops special emphasis within the mainstream of the Christian tradition. This course introduces the student to the study of some of the specifically Byzantine contributions to the understanding of the Christian mystery, with particular emphasis on early developments.

T/RS 226 Fr. Sable, S.J.

Introduction to Eastern Liturgies

3 credits

A survey of the Eastern Eucharistic Liturgies with particular emphasis on the structure, history, and liturgical theology of the Byzantine Liturgy of St. John Chrysostom

T/RS 227 Dr. Kopas, o.s.f.

Christ in Tradition and Culture

3 credits

Examines the meaning and message of Jesus Christ as understood and communicated in the faith of his followers with special consideration given to the symbolic dimensions and cultural aspects of that Christian understanding.

T/RS 228 Staff

The Protestant Tradition

3 credits

An exploration of the Reformation vision of theology covering the roots and principles of the Protestant way of dealing with such topics as the nature of the Church, redemption, ethics, God and Jesus.

T/RS 229 Dr. Pinches

Modern Protestant Thought

3 credits

This course will survey the past two centuries of Protestant thought with an emphasis on the theological roots of contemporary Protestant Liberalism and Evangelicalism. Other current debates among Protestants today and their ecumenical discussions with Catholics will also be presented

T/RS 230 Msgr. Bohr & Staff

Moral Theology

3 credits

A study of the Christian moral tradition, its history and principles. Among areas to be treated are: the family, sexual activity, and human rights

T/RS 231

Drs. Benestad, Pinches

Social Ethics

3 credits

This course will prepare students to recognize ethical dimensions of political, economic and social issues through the study of the following: pertinent writings of Pope Paul VI and Pope John Paul II, a classic work of political theory, and several contemporary writings on such issues as morality and foreign policy and economic justice.

T/RS 232 Dr. Benestad

John Paul II and Catholic Social Thought

3 credits

This course will explore the dialogue between the Catholic Church and modern ideologies on social and political matters. Readings include pertinent documents of the Second Vatican Council and recent papal writings, especially those of Pope John Paul II

T/RS 233 Dr. Steele

Suffering

3 credits

The existence of suffering and evil presents a particular problem for those who believe in a God who is unlimited both in power and goodness. This course will examine the problem and possible solutions.

T/RS 234 Sr. Foley, C.N.D.

Twentieth Century Peacemakers

3 credits

A study of some of the principles and methods of "waging peace" found in the lives and writings of Mohandas Ghandi, Dorothy Day, Thomas Merton and Martin Luther King

T/RS 235 Dr. Pinches

The Theology of Birth and Death

3 credits

This course will investigate the meaning and significance of the birth and death of human beings in the Christian tradition. Related topics will he: suicide, euthanasia, capital punishment, contraception and abortion.

T/RS 236 Prof. Casey

Faith and Justice

3 credits

An inquiry into the role of the Church, Christian social ethics, and the citizen in the formulation of social policy on the economy. Church Pastorals and Biblical readings will be the basis of discussion.

T/RS 237 Prof. Casey

Politics: A Christian Perspective

3 credits

An inquiry into the role of the state, the Church and the individual in political life. Special attention is given to the problem of violence; the course is set in the unique American perspective of Church-State Relations.

T/RS 238 Dr. Benestad

Nietzsche and Christianity

3 credits

A focus on Nietzsche's relation to and critique of Western thought in general and Christian thought in particular. Nietzsche's deep influence on contemporary theology and philosophy will be shown through extended readings from his collected works

T/RS 239 Staff

Theology for the 20th Century

3 credits

An introduction to the problems and methods of doing theology today. This course will begin with an overview of some of the main themes of 20th century theological thought, and will then move on to a study of one of the century's leading Catholic theologians: Karl Rahner. Emphasis will he

placed on the integration of a plurality of philosophical approaches with the theological tradition and with questions of the present day.

T/RS 302 Dr. Frein

Luke as Story

3 credits

A discussion of how the religious message of the Gospel of Luke is shaped and conveyed by such literary features as plot, characterization and the use of irony

T/RS 303 Dr. Frein

Jesus for the Gentiles: An Introduction to the Gospel of Luke

3 credits

The primary purpose of this course is a close reading of the Third Gospel. Although the primary focus will he on the text rather than on methods of analysis, appropriate attention will he paid to literary forms, historical background and responsible interpretation. (Complements TRS 201 and 205).

T/RS 304 Dr. Mathews

The Johannine Gospel & Epistles

3 credits

A close look at the Fourth Gospel and the Epistles of John with an emphasis on their literary, historical, and theological characteristics

T/RS 305 Dr. Mathews

The Apocalypse of St. John

3 credits

This introduction to the last book of the Bible will emphasize the literary forms and thought patterns of apocalyptic literature as well as the historical and theological character of the book itself, highlighting both textual interpretation and contemporary relevance

T/RS 306 Dr. Mathews

Job and the Psalter

3 credits

A close look at the Wisdom Literature of the Old Testament. The study of both the Book of Psalms and the Book of Job will emphasize theological themes

T/RS 307 Dr. Mathews

Passion and Resurrection Narratives

3 credits

A study of the theology of each of the Gospels byan analysis of the key narratives of the Passion and Resurrection in the four Gospels

T/RS 308 Dr. Mathews

The Great Prophets

3 credits

An examination of the four major prophets of the Old Testament: Isaiah, Jeremiah, Ezekiel and Daniel, with an emphasis on the study of selected texts

T/RS 309 Dr. Mathews

The Heart of the Old Testament

3 credits

An in-depth look at the five books of Moses (Genesis, Exodus, Leviticus, Numbers and Deuteronomy) using ancient and modern exegetical views to examine and emphasize the central theme of the Covenant.

T/RS 310 Fr. Rousseau, S.J.

Religion and the American People

3 credits

An exploration of the great religious developments, persons, and questions in the life of the American people from the beginnings to the present day

T/RS 311 Prof. Yevics

Liturgical Theology of Byzantine Churches

3 credits

A survey of the various elements of the liturgical life of the Byzantine tradition examining both the way that tradition is shaped and expresses itself as well as the underlying influences of faith upon that formation and practice.

T/RS 312 Fr. Linehan, S.J.

Jesuit Spirit

3 credits

The Society of Jesus (Jesuits): Its spirituality, tradition and history from their 16th century origins in the Spiritual Exercises of St. Ignatius of Loyola through the contemporary period with special emphasis on Jesuit theological and cultural contributions to the Church

T/RS 313 Dr. Benestad

Introduction to the Greek Fathers

3 credits

Using primary sources, this course provides an introduction to major themes of the Greek Fathers. Justin's *Apology, Against Heresies* by Irenaeus, *Christ the Educator* by Clement of Alexandria, *On the Incarnation* by Athanasius, *the Lord's Prayer* and the *Beatitudes* by Gregory of Nyssa. Basil's *Moralis* and Letters and Nazianzen's *Theological Discourses*.

T/RS 314 Prof. Casey

The Religions of the World

3 credits

An exploration of belief in the traditions of the classical historical religions of the world through both systematic analysis and the reading of sacred texts

T/RS 315 Dr. Kopas, o.s.f.

Women in Christianity

3 credits

An exploration of some of the major roles women have played in Christian thought and experience, including their contributions as disciples, spiritual guides, and social critics. Will also examine assumptions about male and female identities and consider challenges to traditional roles

T/RS 316 Sr. Foley, C.N.D.

God and the Earth

3 credits

This course will explore the way human beings relate to the land and to other life forms and how this relationship is affected by belief in God. Biblical and other theological texts from Christianity and other religious traditions will be considered

T/RS 318 Sr. Foley, C.N.D.

Models of the Church

3 credits

A brief survey of various expressions of the Church's nature and mission throughout its history, from the New Testament through Vatican II. Exploration of some contemporary approaches, including liberation and feminist theology, to such questions as; What and who is the "true Church"?. Where is it located? What is the place of Mary in the life of the Church?

T/RS 320 Fr. Coccia, S.J.

Faith and Reason

3 credits

The problem of faith and reason, that is, intellectual difficulties with belief and the objects of belief, reexamined in the light of contemporary epistemology. An in-depth study, taking in both the problem of truth and the problem of knowledge

T/RS 321 Fr. Coccia, S.J.

Christian Spirituality

3 credits

An historical, analytical, appreciative study of the fundamental principles and development of Christian ascetical theology. Traditional concepts such as faith, prayer, sin, conversion, discernment, peace, consolation, desolation, repentance, and mortification are examined and evaluated.

T/RS 322 Dr. Kopas, o.s.f.

Approaches to God

3 credits

A study of some of the ways religious thinkers have approached the topic of God. Will include consideration of biblical, classical, and contemporary ways of understanding God as well as a selection of artistic, cultural, and imaginative perspectives on God

T/RS 323 Fr. Gabuzda

Signs & Symbols

3 credits

This course introduces themes which serve as the basis for a sound sacramental theology. Areas include: symbol/ritual; biblical and liturgical foundations for the sacraments and contemporary trends in sacramental theology.

T/RS 324 Dr. Benestad

Spiritual Classics

2 credite

A study of the autobiographies of St. Augustine and St. Teresa of Avila (The Confessions and Life of Teresa of Jesus). As an introduction to the study of the spiritual life, John Paul IIs Sign of Contradiction is read.

T/RS 325 Fr. Levko, S.J.

Eastern Christian Spirituality

3 credits

A study of the meaning of the spiritual life for Eastern Christian writers with a particular emphasis upon Sts. Athanasius, Gregory of Nyssa and Gregory Palamas. Themes such as prayer, image and likeness with God, discernment of spirits, hesychasm and icons will be discussed

T/RS 326 Prof. Casey

The Church and Contemporary Social Issues

3 credits

Explores the religious and ethical dimensions of social issues such as prejudice and violence. The findings of related social sciences and literature are placed in the context of Christian anthropology to give the student a concrete view of their interrelationship

T/RS 327 Prof. Casey

Belief and Unbelief

3 credits

A multidisciplinary inquiry into the nature of Faith in the Catholic tradition with special attention to the challenges of modernity.

T/RS 328 Prof. Frein

Wealth and Poverty in the Biblical Tradition

3 credits

A study of the presentation of various economic issues on the Old and New Testaments, including wealth and poverty, as signs of God's favor, as creating obligations to care for and protect the poor and as involving both rights and responsibilities

T/RS 330 Drs. Benestad, Pinches

Biomedical Ethics

3 credits

This course will present theological reflections on the two main ethical theories undergirding contemporary biomedical ethics. It will also present and discuss relevant philosophical and theological arguments on such issues as abortion, care of handicapped infants, euthanasia, suicide and the profession of medicine.

T/RS 331 Drs. Benestad, Pinches

Christian Ethics in the Modern World

3 credits

This course will discuss the practice of the Christian moral life in contemporary society. The Christian virtues will be distinguished and related to selected problems arising in our lives as private individuals, as members of families, as professionals and as citizens. Other topics to be treated include: evil, sin, Christian liberty, Christian perfection, relativism and humanism

T/RS 332 Dr. Pinches

Christian Ethics in America

3 credits

An exploration of the discussion of American theologians, since 1900, of the moral, social, and political implications of Christianity, including such concerns as the relation between the Christian church and the nation state and the status of America as a Christian nation

T/RS 333 Rabbi Wylen

The Jewish Way of Life

3 credits

As a global introduction to Judaism this course will examine: essential beliefs, holidays, and life ceremonies, Jewish history and modern Judaism, especially the Holocaust, the State of Israel and the Coming to America.

T/RS 335 Rabbi Wylen

Judaism in the Time of Jesus

3 credits

A study of first century Jewish religious sects as well as the cultural, political and historical setting of the Roman Empire in which Jesus lived and preached and where monotheism continued to develop.

T/RS 336 Fr. Rousseau, S.J.

Contemporary Case Studies in Theology

3 credits

This course attempts to develop Christian insights into a series of specific moral dilemmas or cases through continued class discussion

T/RS 400 Fr. Frein

Introduction to Old Testament Exegesis

3 credits

An introduction to the primary methods and problems of Old Testament interpretation: its historical background, the theological analysis and synthesis of major sections, as well as the use of source,

form and redaction criticism and such more recently developed approaches as social scientific, literary and feminist criticism.

INTERDISCIPLINARY COURSES *

INTD. 101 Profs. Baillie, Benestad

Is Capitalism Christian?

3 credits

A philosophical, theological, and economic inquiry into the nature of Capitalism and the nature of Christianity to determine the compatibility between them

INTD. 103 Staff

The Vietnam Experience

3 credits

The historical origins of the Vietnam War including the period of French colonialism and the American intervention; the politics, economics, and military strategy in Vietnam during the war years and today. Present relations with China and the USSR. Why were we there and why did we fail?

INTD. 104 Staff

The American Experience

3 credits

An examination from the perspectives of History and Literature Drama of the elements that have shaped our present culture, and an analysis of the trends that may predict our future

INTD. 105 Drs. Homer, McInerney

Great Lives: Images on Stage

3 credits

An examination of the often contrasting impressions of historical personalities, as they are portrayed in plays and films and as they appear to historians. Historical figures to be considered include Caesar, Richard III, Thomas More, Lincoln and Churchill

INTD. 106 Dr. Beal, Staff

Theology & Literature

3 credits

A study aimed at deepening students' appreciation of the literary experience and its capacity to reveal human religious capabilities. Readings, lectures, discussions and films will focus on human freedom as a vehicle to personhood, community and God

INTD. 108 Staff

Health & Legal Implications of Chemical/Drug Abuse

3 credits

A team taught course that deals with the neurophysical, health, and legal implications of alcohol/drug abuse, viz: its biochemical effects and aspects, its legal and social consequences, and its health and lifestyle implications.

INTD. 109 Staff

Parenting

3 credits

Integrating the disciplines of psychology and literature, this course is designed to increase ones capacity to be a good parent. Fiction is used as discussion source for learning about child development, family relations, and parent education

INTD. 209 Profs. Schaffer, Homer, Dunn, The Holocaust

3 credits

Rowe, and Friedrichs

An exploration of the cataclysmic event in Jewish history known as the Holocaust. The course will examine the subject form the perspective of various academic disciplines-- historical, sociological, philosophical, artistic, and literary, among others -- and will include a field trip to the Holocaust Museum in Washington, D.C. (GEAreasII, IV)

INTD. 224 Dr. Dutko

Science, Decision Making and Uncertainty

3 credits

A study of decision making as it relates to scientific and public policy matters. The course covers philosophical, mathematical, and psychological aspects of decision making in the face of uncertain evidence. Topics include the nature of scientific evidence; probabilistic evidence and the law; uncertainty and medicine; and other issues such as nuclear power, waste disposal, and strategic nuclear planning. Reading taken from contemporary sources. (GEAreas I, II, V)

NSCI 101 Prof. Kalafut

History of Science and Technology

3 credits

A course for non-science majors that traces the evolution of scientific inquiry from the pre-Socratics to the present. The central ideas that enable man to understand and control the forces of nature and develop modern technological societies are examined. Selections from the classics in science will be studied. (No prerequisites.)

NSCI 102 Science and Society

Dr. Baril, Prof. S. Casey

3 credits

This course would attempt to show how the sciences, particularly the behavioral sciences, impact both positively and negatively on society. Issues dealt with would include the nature of science, similarities and differences between the scientific disciplines, the impact of science on the concept of free will, and the philosophical and moral implications of psychological testing, socio-biology, and Skinnerian radical behaviorism.

NSCI 201

Dr. Carey

Science and the Human Environment 3 credits

A brief study of the effects of the technological, scientific and industrial progress on the air, land and water resources of the human environment. Problems in each of the resource areas will be discussed in detail.

*Interdisciplinary courses are team-taught courses which vary from semester to semester. They may be used to fulfill appropriate General Education requirements as specified in the course schedule bulletin.

THE SCHOOL OF MANAGEMENT

Joseph J. Horton, Ph.D., Dean

The vision of the School of Management is to encourage and enable students to make lasting contributions to their organizations and communities

MISSION STATEMENT

The MISSION of the School of Management is to contribute to a Jesuit, liberal arts education by preparing students to meet the educational requirements for success in leadership, management, team membership and other productive roles in business and related fields, and to provide service to the broad University community. The School of Management provides for the development of knowledge, skills, interpersonal and communication capacities, attitudes and values that will enable students to assume positive, influential roles in their work organizations and society. This process integrates the capacity for life-long learning and decision making with a clear sense of ethical responsibilities, and a sensitivity to cultural and demographic diversity. Our mission supports the University's Statement of Mission -- to provide professional and pre-professional programs "designed to meet the standards of the appropriate professional fields, and to develop students who have a clear sense of the ethical responsibilities which these fields demand of their successful practitioners."

DEPARTMENTAL PROGRAMS

Seven programs are available in the School of Management: Accounting-Track in Financial Accounting, Accounting-Track in Managerial Accounting, Finance, International Business, Management, Marketing, and Production & Operations Management. In addition, a B.S. in Economics is jointly offered with the College of Arts & Sciences. These programs prepare the student for a career in business or for graduate study. Except for the requirements of the major and the business core, the student in the School of Management will adhere to the same regulations as the student in the other undergraduate colleges. At least 50 percent of the major and business core credits must be earned here at the University of Scranton. Apart from minor exceptions, which require the explicit approval of the Dean of the School, the student will spend the senior year in residence at the University.

MINORS

A minor in General Business is available to non-business students, with the exception of students majoring in Chemistry-Business, Electronics-Business, International Language-Business, and Economics (SOM only). It will consist of 21 credits:

ECO. 210	Essentials of Economic Theory	MGT. 351	Principles of Management I
ACC. 253-254	Financial-Managerial Accounting	MGT. 352	Principles of Management II
MGT. 251	Legal Environment of Business	MKT. 351	Introduction to Marketing

These are the courses that are required in five of the six foundation areas for the MBA program in the Graduate School. The last three courses must be taken after the other courses, and may be taken no earlier than the junior year.

A minor in also Operations Management is also available, and is described on page 153

BUSINESS COGNATE

Non-business students with special needs may pursue a personal cognate in business. With the approval of his or her advisor, the student is free to select a variable number of business courses; however, the prerequisites stated in the catalog must be observed, and upper division courses may not be taken before the junior year.

MATH OPTIONS

Two math options are available to business majors:

OptionI*

Math 107, Quantitative Methods II

Math 108, Quantitative Methods III

Math 221, Analysis II

Both options cover the topics of calculus. Option I takes an applied approach; Option II a theoretical approach.

*Students are tested for math placement during summer orientation. On the basis of these tests and their high school background it will be receommended that some students take Option II, especially if they expect to pursue graduate studies. The majority of students will be placed in Option I, and may also be required to take Math 106, Quantitative Methods I, as a prerequisite to taking Math 107. Students choosing Option I who do not need Math 106 will take a Natural Science course.

THE BUSINESS LEADERSHIP PROGRAM

Leadership, the process of persuasion or example by which the members of a group are persuaded to pursue the group's objectives, is the focus of many new programs in education. The Business Leadership Program in the University's School of Management provides selected students with an opportunity to perfect their talents for business leadership. The program includes special sections of key business courses taught from the leadership perspective, leadership seminars, a mentor/internship program, and an independent leadership project

The key courses are taught (in sections restricted to members of this program) with special emphasis on business leadership by faculty chosen for their exceptional teaching and their interest in the leadership concept. The leadership seminars will help the students assess and perfect their talents for leadership and will put them into contact with many business leaders. Noteworthy among the opportunities are the internships (where the students are placed with business leaders who serve as mentors) and the projects developed and executed by the students to demonstrate their leadership skills. The program will culminate in the students' preparing portfolios on the essence of leadership, as derived from participation in the program, and defending their concepts of leadership before a faculty board

The program is highly selective, accepting fifteen sophomores each Spring to begin the two year program the following Fall. Applicants will be selected on the basis of the following criteria:

- -- **leadership experience and /or potential;** drawing from the student's record in high school, college, work history, clubs and activities
- -- student"s self-assessment and motivation in applying how and why this program relates to the student's long-term goals.
- -- interests and hobbies.
- -- recommendations of teachers, others.
- -- 3.3 GPA (ordinarily); a minimum of a 3.5 GPA will be needed for graduation in the program

SCHEDULE

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Junior Year:	BLDR 351	Principles of Management I

BLDR 385 Business Leadership Seminar: Self-Assessment

Senior Year: BLDR 451 Business Ethics

BLDR 485 Business Leadership Seminar: Mentorship

SPRING

Junior Year: BLDR 352 Seminar: Creativity &Enterpreneurship

BLDR 386 Business Leadership Seminar: Empowerment

Senior Year: BLDR 452 Business Policy and Strategy

BLDR 486 Business Leadership Seminar: Portfolio Defense

PROGRAMS OF STUDY

SPECIAL TOPICS COURSES

Special topics courses are offered in each department. The course numbers below will be prefixed with the appropriate department abbreviation

Internship: 480-481 3-6 credits

(Formerly 198-199; Approval of Chairperson and Dean required)

Guided Research for Independent Study: 482-483

3 credits

(Formerly 195-196; Approval of Chairperson and Dean required) Content determined by mentor in specialized field.

Seminar: 490-491

(Formerly 182-183; Prerequisite: Senior Standing) This course will discuss topics for current concern in a specialized field, and will be conducted in seminar fashion. Content and emphasis will vary from year to year, but will always be up-to-date

ACCOUNTING

DR. CARPENTER, Chairperson

Accounting accumulates and interprets the quantitative data necessary for appraising and controlling business operations and for sound decision making. The Financial Accounting Track is appropriate for the student interested in a career in public accounting. The public accountant is concerned with the preparation and reporting of financial statement information to users outside the organization. Students going into public accounting should consider seeking CPA (Certified Public Accountant) certification. The Managerial Accounting Track is the appropriate choice for a student wanting a career in management accounting. Emphasis here is on the use of accounting information for decision making within the organization. The CMA (Certified Management Accountant) is the appropriate certification in this area

Descriptive Title of Course

ACCOUNTING Financial Accounting Track

Dept. and No.

Dept. and No).	Descriptive Title of Course		
	Credits			
		FRESHMAN	FALL	SPRING
GE AREA I	Math.*	Math Option	3/4	3/4
GE AREA II	Eco. 153-154	Prin. of Micro-Macro Eco.	3	3
GEAREAIII	Communications #	Electives	3	3
GEAREAIV	Humanities	Electives	3	3
GEAREAV	Phil. 120-T/RS 121	Intro. to Philosophy-Theolog	• •	3
PHYS EDUC	Ph. Ed	Electives	1	<u>1</u>
			16/17	16/17
		SOPHOMORE		
BUSCORE	Acc. 251-252	Financial Accounting I-II	3	3
BUSCORE	QMS 251-252	Statistics for Bus. I-II	3	3
BUS CORE	Mgt. 251	Legal Environment of Bus.	3	
	Math/Humanities	Math Option (or Humanities	Elective)	3
GE AREA III		Computing for Business &La		3
GE AREA IV		Elective		3
GE AREA V		Ethics-Theology II	3	3
PHYS EDUC		Electives	1	<u>1</u>
FIII'S EDUC	FII. EU	Electives	16	1 <u>1</u> 16
			10	10
		JUNIOR	_	_
MAJOR	Acc. 361-362	Intermediate Accounting I-II		3
MAJOR	Acc. 363-364	Federal Taxes-Auditing	3	3
BUS CORE	Mgt. 351-352	Principles of Management I		3
BUS CORE	Fin. 351-Mkt. 351	Intro. to FinanceIntro. to M		3
BUS CORE	QMS 351-POM 352	Intro. to Mgt. Science	3	
	Prod. and Op. Mgt.	-	3	
BUSCORE	Eco. 351	Environment of Intl. Busines	ss	3
GEFREE	Elective	Elective		3
			18	18
			. •	. •
		SENIOR		
MAJOR	Acc. 460-Maj. El.	Adv. AcctgMaj. Elective.	3	3
MAJOR	Acc. 461-Maj. El.	Cost AcctgMaj. Elective	3	3
BUS CORE		Bus. Policy & Strategy	3	3
	Mgt. 455		_	2
BUSCORE	POM 471	Bus. Information Manageme		3
GE AREA IV		Electives	3/6	3
GE AREAV	T/RS-Phil. 211	Elective-Business Ethics	3	3
			15/18	15

TOTAL:132-134 credits

* See note on Math Options, page 144.

Public Speaking (COMM 100) and Composition (ENGL 107) are required except for students who receive APcredits or are certified by exam as satisfying the Communication Skills requirement

Major electives for the Financial Accounting track are ACC 365, 380, 470, 472, 473 & 475. Students who plan to sit for the CPA in NY/NJ need 6 credits in Finance. Fin 361 or Fin 475 are recommended.

ACCOUNTING

Managerial Accounting Track Dept. and No.

Descriptive Title of Course

Dopti and ito	One -1:40	Boothparo Talo di Godico		
	Credits			
			FALL	SPRING
GE AREA I	Math.*	Math Option	3/4	3/4
GE AREA II	Eco. 153-154	Prin. of Micro-Macro Eco.	3	3
GEAREAIII	Communications #	Electives	3	3
GEAREAIV	Humanities	Electives	3	3
GEAREAV	Phil. 120-T/RS 121	Intro. to Philosophy-Theolog		3
PHYS EDUC		Electives	1	1
FIII 3 EDUC	FII. Eu	Electives	16/17	16/1 7
		CODUCAGO	10/17	16/17
		SOPHOMORE	_	
BUSCORE	Acc. 251-252	Financial Accounting I-II	3	3
BUSCORE	QMS 251-252	Statistics for Bus. I-II	3	3
BUS CORE	Mgt. 251	Legal Environment of Bus.	3	
GE AREA I/IV	Math/Humanities	Math Option (or Humanities	Elective)	3
GE AREA III	CMPS 104 & Lab	Computing for Business &La		3
GE AREA IV		Elective		3
GE AREA V		Ethics-Theology II	3	3
PHYS EDUC		Electives	1	1
FIII3 LDGC	FII. LU	Liectives	16	<u>1</u> 16
			10	16
		HINIOD		
		JUNIOR	_	
MAJOR	Acc. 361-362	Intermediate Accounting I-II	3	3
MAJOR	Acc. 461-365	Cost AcctgFedl. Tax of Cor		3 3
BUS CORE	Mgt. 351-352	Principles of Management I-		
BUS CORE	Fin. 351-Mkt. 351	Intro. to FinanceIntro. to MI		3
BUS CORE	QMS 351	Intro. to Mgt. Science	3	
BUS CORE	POM 352	Prod. and Op. Mgt.		3
BUSCORE	Eco. 351	Environment of Intl. Busines	S	3
GEFREE	Elective	Elective	•	3
OLITCE	Licotive	Licotive	18	18
			10	10
		SENIOR		
MALOD	A 400 Mai El	_	- 0	0
MAJOR	Acc. 462-Maj. El.	Adv. MgrlAdv. Acc. Elective		3
MAJOR	Maj. ElMaj. El.	Advanced Acctg. Electives	3	3
BUS CORE	Mgt. 455	Bus. Policy & Strategy	3	
BUSCORE	POM 471	Bus. Information Manageme	nt	3
GE AREA IV	Humanities	Electives	3/6	3
GE AREAV	T/RS-Phil. 211	Elective-Bus. Ethics	3	3
			15/18	15
				_

TOTAL:132-134 credits

Public Speaking (COMM 100) and Composition (ENGL 107) are required except for students who receive APcredits or are certified by exam as satisfying the Communication Skills requirement

Major electives for the Managerial Accounting track are ACC 363, 364, 460, 470, 471, 472, 475, 480.

^{*} See note on Math Options, page 144.

ACC. 210 Staff

Survey of Managerial & Financial Accounting

3 credits

Intended to provide a foundation in accounting for MBA students and for non-business students taking credits in business, this is an intensive course that covers reporting financial information and accounting techniques for decision-making, planning and controlling operations. Not open to students needing 6 credits in introductory accounting

ACC 251 Staff

Financial Accounting I

3 credits

(For Acc. & Fin. majors) A survey of accounting principles, concepts and procedures. Includes financial statements, information processing cycle, voucher system, receivables, inventory costing methods, plant and equipment, and intangibles

ACC. 252 Staff

Financial Accounting II

3 credits

(Continuation of Acc. 251 for Acc. and Fin. majors) A study of accounting principles relevant to payroll accounting liabilities, partnerships, corporations and investments. Also, techniques required in compiling and interpreting data to be used in decision making including funds flow, budgeting and cost analysis. The use of computers in accounting will be introduced

ACC. 253 Staff

Financial Accounting

3 credits

(For non-accounting majors) A survey of the topics in Acc. 251 and 252. Coverage is directed

toward the reporting of financial information to interested parties

ACC. 254 Staff

Managerial Accounting

3 credits

(Continuation of Acc. 253 for non-accounting majors) Accounting techniques required in compiling and interpreting selected data for decision making. Includes such areas as cash and working capital flows, profit planning, statement analysis, capital investment decisions, planning and controlling operations.

ACC. 361 Drs. Carpenter, Mensah, Staff

Intermediate Accounting I

3 credits

(Prerequisite Junior standing, Acc. 252) A comprehensive study of contemporary accounting theory, concepts and procedures and their application of the asset classifications on the balance sheet. Current pronouncements of the various accounting organizations relevant to assets will be emphasized.

ACC. 362

Drs. Carpenter, Mensah, Staff

Intermediate Accounting II

3 credits

(Prerequisite Acc. 361) Application of contemporary accounting theory to liabilities and stockholder's equity classifications of the balance sheet. Current pronouncements of accounting organizations relevant to liabilities and owners' equity accounts will be emphasized

ACC. 363

Dr. R. Yori, Prof. Dragotto, Staff

Federal Taxes

3 credits

(Prerequisite: Junior standing, Acc. 252) An introductory course covering pertinent phases of federal income taxation. Emphasis on business transactions, preparation of individual returns and finding the answers to federal tax questions

ACC. 364

Dr. R. Yori, Staff

Auditing Theory

3 credit

(Prerequisite Acc. 252) A review of generally accepted accounting principles and applicable auditing principles, standards and procedures. Auditing original records and assets. Automation and the examination of electronically prepared records. Preparation of work papers

ACC 365

Prof. Dragotto, Dr. Yori, Staff

Federal Taxation of Corporations and Partnerships

3 credits

(Prerequisite: Acc. 252) An introduction to the taxation of corporations and partnerships including analyses of the tax consequences of the formation, operation and liquidation of regular corporations. Subchapter S corporations and partnerships

ACC. 460

Dr. Mahoney, Dr. Mensah, Staff

Advanced Accounting I

3 credits

(Prerequisite: Acc. 362) The theories and promulgated standards of accounting related to multiple business units, including purchase versus pooling theory, consolidated financial statements, minority interest, the use of the cost method for unconsolidated investments, and branch accounting. Also covered is governmental and nonprofit accounting

ACC. 461

Drs. R.J. Grambo, Johnson,

Cost Accounting

Lawrence, Staff

3 credits

(Prerequisites: junior standing, Acc. 252) Theories, techniques and procedures in cost accumulation, reporting and control, including such topics as job order costs, process costs, by-products and joint-products costing, and standard cost and variance analysis,

ACC. 462

Dr. R.J. Grambo, Staff

Advanced Managerial Accounting

3 credits

(Prerequisite: Acc. 461) Accounting techniques as control devices in business with emphasis on use of accounting data in business decisions. Topics to include budgeting and profit planning, cost profit volume, profit analysis and direct costing

ACC. 470

Prof. Dragotto, Staff

Law for Accountants

3 credits

(Prerequisite Mgt. 251) A study of the law of contracts, sales, commercial paper, secured transactions, rights of debtors and creditors, and bankruptcy

ACC. 471

Drs. R.J. Grambo, Yor, Staff

Management Auditing

3 credits

(Prerequisite: Acc. 362) An in-depth examination of the accountant in the manager's position. Administrative effectiveness and efficiency as provided through sound internal controls. Design and implementation of monitoring systems within the organization to promote better cost, benefit decisions.

ACC. 472

Dr. Mahoney, Dr. Mensah, Staff

Advanced Accounting II

3 credits

(Prerequisite: Acc. 362) A study of the theories and promulgated standards of accounting related to international operations, partnerships, estates and trusts, installment sales, consignments, SEC reporting, and interim financial reporting

ACC 473

Dr. Yori, Staff

Advanced Auditing

3 credits

(Prerequisite: Acc. 362) A study of the role computers play in the auditor's environment with an analysis of EDP controls and systems analysis related to the external audit process. Advanced statistical sampling techniques, flow charting and audit program preparation will be covered

ACC. 474

Dr. R.J. Grambo, Staff

Accounting Information Systems

3 credits

(Prerequisite: Acc. 362) The design and application of accounting systems in both the manual and automated environments. Analysis of information's accumulation and use patterns in organizations with a focus on providing useful and timely information. Extensive computer usage of Professional Business Software.

ACC. 475

Drs. Yori, Johnson, Lawrence

Staff

International Accounting

3 credits

(Prerequisite: ACC 362, ACC 460, ECO 351) Students are introduced to world financial accounting issues. Topics include: Financial reporting in the multinational firms, currency translations and differing reporting standards. An analysis of the environmental influences on accounting development and the harmonization of international accounting systems and standards. Other topics include managerial accounting problems of the multinational corporations, translation of financial statements, foreign exchange risk management, transfer pricing and tax system philosophy.

ECONOMICS/FINANCE

DR. SATYAJITGHOSH, Chairperson

The major in ECONOMICS, which is available both through the School of Management and the College of Arts and Sciences (p. 76), provides an excellent training for understanding the economic events and developments of our complex industrialized society and of the world economies. It equips the student with training and background needed to assume responsible managerial positions in industry, commerce, banking, or government service. It also gives a strong preparation for the pursuit of graduate studies in Economics or the legal profession

ECONOMICS Dept. and No. **Descriptive Title of Course** Credits **SPRING** FRESHMAN FALL Princ. of Micro.-Macro. Eco. MAJOR Eco. 153-154 3 3 GEAREAI Math Option Option * * 3/4 3/4 GEAREAIII Communications Electives: Comm 100, 3 Engl 107 * 3 Humanities 3 **GEAREAIV** Electives: Hist 110, 111 * 3 GEAREAV Phil 120-T/RS 121 Intro to Philosophy-3 Theology I 3 **PHYSED** Ph. Ed. Physical Education 1 16/17 16/17 **SOPHOMORE MAJOR** Eco. 361, 362 Intermed. Micro.-Macro. Eco. 3 **MAJOR** QMS 253 Statistics for Economics 3 COGNATE Acc. 253 Financial Accounting 3 **CMPS 104** GE III Comptg. for Bus. & Soc. Sci. 3 Elective, Electives **GE IV** Humanities 3 6 GE V Phil. 210-Ethics-3 T/RS 122 Theology II 3 PHYS ED Ph. Ed. Physical Education 1 16 16 **JUNIOR** MAJOR Eco. 460 Monetary & Fin. Eco. 3 Environment of Intl. Bus. 3 Eco. 351 **MAJOR** Eco. Electives 3 3 Electives Electives * * * COGNATE **Electives** 6 6 Fin. 351 3 COGNATE Intro. to Finance 3 GE I Nat. Sci. Elective GE IV 3 Humanities Elective 15 18 SENIOR MAJOR Eco. Elective Elective 3 Eco. El. - Eco. Sem 3 MAJOR Elective, Seminar 3 Electives * * * 3 COGNATE Electives 3 3 GE V Phil., T/RS Electives 3 3 GE Free Free Area **Electives** 6

TOTAL: 127/129 credits

15

15

^{*} Recommended by the department

^{**} See the math options on pages 144. The student majoring in economics will take the first two courses in one of these options.

Economic majors may apply up to six cognate credits toward a Math minor. Students taking the sequence open to math majors are strongly urged to complete the calculus sequence by taking Math 222, particularly if they plan on pursuing graduate studies

Economic majors registered in the School of Management will apply 9 of their elective cognate credits to one of the following areas (exceptions require the permission of the SOM Dean): Finance, Management, Marketing, Production and Operations Management. The remaining cognate credits may be applied to the social sciences or from the other business areas (but note that no more than 30 credits altogether can be taken in business subjects, exclusive of economic courses). Care must be taken to observe prerequisites

ECO. 153 Staff 3 credits

Principles of Microeconomics

(Formerly Eco. 152) This course centers on the salient characteristics of the modern free enterprise economy. Topics include the operations of the price system as it regulates production,

distribution, and consumption, and as it is in turn modified and influenced by private groups and government. International economics is also covered

ECO. 154 Staff

Principles of Macroeconomics

3 credits

(Formerly Eco. 151) This course analyzes the determinants of aggregate economic activity. The main areas studied are the monetary and banking system, the composition and fluctuations of national income, and inflation, all as influenced by monetary and fiscal policy

ECO. 200 Dr. Ralph Grambo, Staff

Economic Security & Personal Finance

3 credits

A survey of the practical approaches to achieving economic security. Topics include risk management, essentials of budgeting, savings, and credit planning. Planning for taxes, investments, retirement and estates. This course is not open to economics or business majors or minors.

ECO. 210 Staff **Essentials of Economic Theory** 3 credits

Intended to provide a foundation in economics for MBA students and for non-business students taking minor or cognate credits in business, this is an intensive course that stresses economic theory and public policy implications. The topics include stabilization of the economy, the price system as it regulates production, distribution and consumption and as it in turn is modified and influenced by private groups and government. Not open to students needing 6 credits in

ECO. 300 Dr. Edward Scahill. Staff

The Economics of Environmental Issues

introductory economics.

3 credits

This course provides students with a framework for viewing environmental issues as economic issues. The operation of a system of markets and prices and the sources of market failure" are explained. Alternative methods for addressing environmental problems are examined, including "command and control" regulatory policies and "market-based" policies. The evolution of public policies toward the environment is discussed. This course is not open to economics majors or minors, business majors or minors.

ECO. 351 Dr. Trussler/Staff

Environment of International Business

3 credits

(Prerequisites: Eco. 153 & 154; junior standing) This course introduces the student to the growing field of international business, touching on the economic, social and political environments of international trade and multinational corporations. International institutions and agencies that impact on international business are discussed and practical aspects of these topics are emphasized.

ECO. 361 Dr. Ghosh/Staff

Intermediate Microeconomics

3 credits

(Prerequisite: Eco. 153) This course centers on the analysis of production and cost theories. The topics studied are pure competition monopoly, oligopoly, monopolistic competition factor pricing,

resource allocation, and income distribution. Economics majors take in Sophomore year; Finance in Junior year.

ECO. 362 Dr. Ghosh/Staff

Intermediate Macroeconomics

3 credits

(Prerequisite: Eco. 154) Course centers on the study of national income accounting, price level fluctuations, problems of full employment and impact of monetary and fiscal policy on income level and distribution. Economics majors take in Sophomore year; Finance in Junior year

ECO. 363 Dr. Nguyen

Applied Econometrics

3 credits

(Prerequisite: ECO. 361, ECO 362, QMS 253) This course deals with the modeling and estimation of relationships as applied to economics. The topics covered include single equation structural modeling and time-series modeling; estimation methods and problems; testing of economics hypotheses; and forecasting. The emphasis of the course is on applications involving the use of actual data.

ECO. 364 Dr. Corcione

Labor Economics & Labor Regulations

3 credits

(Prerequisites: Eco. 153-154) Analysis of labor supply & demand; measurement theory of unemployment; occupational choice; wage differentials; labor market issues & policies; labor legislation.

ECO. 365 Dr. Corcione, Staff

Mathematical Economics

3 credits

(Prerequisites: Eco. 361, Eco. 362, QMS 253, MATH 107, MATH 108) This course studies the methodology of modern economics analysis. Emphasis is placed on developing the rigorous theoretical foundations of micro and macro economics using tools of elementary calculus. Topics such as comparative static analysis, general equilibrium analysis, welfare economics, intertemporal decision making, decision making under uncertainty, theory of growth and rational expectation hypothesis are covered.

ECO. 366 Dr. Trussler

Economic Geography

3 credits

(Prerequisite: Eco. 153-154) The course will examine the broad areas of the spatial organization of economic systems and the location of economic activity. The discussion will encompass spatial decision-making for manufacturing industries, the service sector, and agricultural enterprises. The role of transportation in determining optimal locations and optimal flow of goods, information, and people will be emphasized. The spatial organization of the growth & development of cities & regions will also be discussed, as will the related topic of the development of nations within the global economy.

ECO. 410 Dr. Scahill

Economics for Education Majors

3 credits

Provides an introduction to fundamental economic concepts as well as a review of techniques and materials (print, audio-visual, etc.) that can be used to teach economics at the K-12 grade levels. Emphasis is placed on strategies designed to integrate economics into such courses as language arts, mathematics and social studies. The course is intended for education majors and may not be used as a substitute for other economics courses

ECO. 460 Drs. Corcione, Nguyen

Monetary & Financial Economics

3 credits

(Prerequisite: ECO 362) This course emphasizes the interrelations between financial markets, financial institutions, and aggregate economic activity. Topics include: an overview of financial institutions, introduction to money and capital markets, fundamentals of interest rates, the money supply process, the conduct of monetary policy, and other subjects that occupy the subject matter of money and financial markets.

ECO. 461 Dr. Nguyen, Staff

Managerial Economics

3 credits

(Prerequisite: Eco. 361) Teaches the use of economic tools for managerial decision making. Topics include discussion of applicable economic, statistical and computer skills. Emphasis is on the microeconomic theory of the firm, how this is applied

ECO. 462 Drs. Trussler, Ghosh

Urban & Regional Economics

3 credits

(Prerequisite: Eco. 361, 362) Tools, measurements and theories utilized in studying the economy of urban areas and regions. Issues such as growth, decline, housing, poverty and environmental concerns examined in a public policy context

ECO. 463 Drs. Bose, Nguyen

Public Finance and Taxation

3 credits

(Prerequisite:Eco. 362) Government expenditures, budgets, intergovernmental fiscal relations, public debt, fiscal policy, and the principles of taxation

ECO. 465 Drs. Ghosh, Staff

Development Economics

3 credits

(Prerequisite: Eco. 361-362) Principal determinants of economic &developing economic growth in less-developed areas.

ECO. /IB 475

movements, and current international economic problems

Dr. Bose

International Economics &Finance 3 credits (Prerequisite: Eco. 351) Advanced foreign trade theories & practices, balance of payments analysis, regional integration, exchange rates determination, foreign exchange markets, capital

FINANCE

The practitioner in FINANCE must be familiar with the tools and techniques available, and, given the resources and constraints of the organizations and the general economic environment in which the organization operates, be adept at efficiently managing the fiscal resources of the organization, including the raising of funds and their short-term and long-term investment. Career opportunities in Finance include:

Banking Investments Corporate
Bank Examiner Financial Analyst Financial Analyst

Trust Officer Security Broker Working Capital Management

FINANCE Dept. and No.

Descriptive Title of Course

Dept. and No				
	Credits			
		FRESHMAN	FALL	SPRING
GE AREA I	Math *	Math Option	3/4	3/4
GE AREA II		Prin. of MicroMacro. Eco.	3	3
	Communications #	Electives	3	3
GE AREA IV	Humanities	Electives	3	3
GFE AREA V	Phil. 120/T/RS 121	Intro. to PhilTheology I	3	3
PHYS EDUC		Electives	1	<u>1</u>
11110 2000	111. 24.	Liodavoo	16/17	16/1 7
			10/17	10/17
		SOPHOMORE		
BUS CORE	Acc. 251-252	Financial Accounting I-II	3	3
BUS CORE	QMS 251-252	Statistics for Bus. I-II	3	3
BUS CORE	Mgt. 251	Legal Environment of Bus.	3	O .
			-	•
	Math/Humanities	Math Option (or Humanities		3
GE AREA III	CMPS 104 &Lab	Computing for Business &La	ab	3
GE AREA IV	Humanities	Elective		3
GE AREA V	Phil. 210- T/RS 122	Ethics-Theology II	3	3 3 3
PHYS EDUC		Electives	1	<u>1</u>
FIII3 LDGC	FII. Lu.	Liectives	-	
			16	16
		JUNIOR		
MAJOR	Eco. 361-362	Intermediate MicroMacro.	Eco. 3	3
MAJOR	Fin. 361	Working Capital Mgt.		3
MAJOR	Fin. 362	Investments		3
BUS CORE			11 2	3
	Mgt. 351-352	Principles of Management I		3
BUS CORE	Fin. 351-Mkt. 351	Intro. to Finance-Intro. to M		3
BUS CORE	QMS 351	Intro. to Mgt. Sci	3	
BUSCORE	POM 352	Production &Op. Mgt.		3
BUS CORE	Eco. 351	Environment of Intl. Bus.		3
			15	18
		CENIOD	15	10
	_	SENIOR		
MAJOR	Eco. 460-	Monetary &Fin. Eco.	3	
Major Elec.	Fin. Elective		3	
MAJOR	Fin. 470-	Capital Inv. & Struct	3	
Major Elec.	Fin. Elective	Capital IIII di Cildon	3	
BUS CORE		Pue Policy & Ctrotomy	3	
	Mgt. 455	Bus. Policy &Strategy	3	^
BUS CORE	POM471	Bus. Information Mgt.		3
GE AREA IV		Electives	3	3/6
GE AREA V	T/RS- Phil. 211	Elective-Business Ethics	3	3
GE FREE	Elective	Elective		3_
· · · 		, v	18	15/18
			10	13/10

TOTAL: 132-134 credits

* See note on Math Options, page 144.

Public Speaking (COMM 100) and Composition (ENGL107) are required except for students who receive APcredits or are certified by exam as satisfying the Communication Skills Requirement

FIN. 351 Dr. R.W. Grambo, Staff

Introduction to Finance

3 credits

(Prerequisites: Junior standing, Acc. 252 or 254, Eco. 153) This course introduces the business student to the field of Finance. It serves as the foundation course for financial principles used in both financial management and investment courses. Topics include time value of money, risk analysis, basic operation of the capital markets, current asset and liability analysis, and introduction to the topics of capital budgeting and cost of capital calculation

FIN. 361 Dr. R.W. Grambo, Staff

Working Capital Management

3 credits

(Prerequisite: Fin. 351) This course is designed to give advanced study in the financial management area through detailed analysis of financial statements, liquidity crises, cash optimization, credit analysis, banking arrangements, loan contracts, commercial paper, and the use of money market.

FIN. 362 Dr. Rajan, Staff

Investments

3 credits

(Prerequisite: Fin. 351) An introduction to the theory and process of managing investments. Topics include practical operation of the equity markets, debt options, and futures markets. Stock valuation models using fundamental technical and random walk approaches

FIN. 470 Dr. Kallianiotis, Staff

Capital Investment and Structure

3 credits

(Prerequisite: Fin. 351) Advanced study in the "permanent" financial aspects of the firm including capital budgeting models, optimal replacement processes, abandonment, leasing, cost of capital, capital structure, mergers and acquisitions, and bankruptcy

FIN. 471 Dr. Hussain, Staff

Speculative Markets

3 credits

(Prerequisite: Fin. 362) Advanced work in speculation, hedging and arbitrage. Use of speculative markets for profit and risk adjustment. Options and futures pricing models, financial and index futures, and options, precious metals, and foreign exchange

FIN. 472 Dr. Hussain, Staff

Portfolio Management

3 credits

(Prerequisite: Fin. 362) Advanced study of professional management of various portfolios including those of banks, insurance companies, pension funds, and non-profit institutions. Markowitz and Sharpe models, data availability, and computerized data services are covered

FIN. 473 Dr. Corcione, Staff

Financial Institutions

3 credits

(Prerequisite: ECO 362) The study of financial markets and financial institutions, including depository and nondepository institutions. Topics include regulation, operation, and management of financial institutions, financial instruments, interest rate principles, risk management strategies, loan analysis, and asset/liability management. Insurance and pension principles, and investment banking are covered.

FIN. /IB 475 Dr. Kallianiotis

International Finance Management

3 credits

(Prerequisites: Eco. 351, Fin. 351) The course deals with the Environment of International Financial Management, the Foreign Exchange Risk Management, the Multinational Working Capital Management, the International Financial Markets and Instruments, the Foreign Investment Analysis, and the Management of Ongoing Operations. It also exposes students to a wide range of issues, concepts, and techniques pertaining to International Finance

INTERNATIONAL BUSINESS

The major in International Business is designed for those students who seek an understanding of the complex world within which multinational corporations, national and international agencies, and individuals interact. As we approach the twenty-first century all business activities are becoming more and more international in nature; it is imperative that those who wish to succeed in this international setting have a clear understanding not only of the theory and practice of the core business disciplines, but also of their interaction with the geographic, cultural, and political environments within which multinational corporations operate, and international trade and investment occur. This major is designed to prepare students who wish to work in the international arena-either overseas or in the U.S.

INTERNATIONAL BUSINESS Dept. and No. Credits		Descriptive Title of C	ourse	
	Credits	FRESHMAN	FALL	SPRING
GE AREA I	Math *	Math Option	3/4	3/4
GE AREA II	Eco. 153-154	Prin. of MicroMacro. Eco.	3	3
GE AREA III	Communications #	Electives	3	3
GE AREA IV	Humanities	Language Electives	3	3
GE AREA V	, .,	Intro. to PhilTheology I	3	3
PHYS EDUC	Ph. Ed.	Electives	1	<u>1</u>
			16/17	16/17
		SOPHOMORE		
BUS CORE	Acc. 253-254	Financial-Managerial Accou	_	3
BUS CORE	QMS 251-252	Statistics for Bus. I-II	3 3	3
BUS CORE	Mgt. 251 Math/Area Studies ###	Legal Environment of Bus.		
GE AREA II	Global Studies ##	Math Option (or Area Electine Elective	ve) 3	3
	CMPS104 &Lab	Computing for Business &L	ah	3
GE AREA IV		Language Electives	3	3
PHYS EDUC		Electives	1	1
			16	1 6
		JUNIOR		
MAJOR	Intl. Bus, **	Adv. IBElectives		6
BUS CORE	Mgt. 351-352	Principles of Management I		3
BUS CORE	Mkt. 351-Fin. 351	Intro. to MktIntro. to Fin.	3	3
BUS CORE	QMS 351	Intro, to Mgt. Sci	3	•
BUSCORE	POM 352	Prod. & Oper. Mgt.	•	3
BUS CORE GE AREA II	Eco. 351 Global Studies ##	Environment of Intl. Bus. Elective	3 3	
GE AREA V	Phil. 210-T/RS 122	Ethics-Theology II	3	3
GL AINLA V	F1III. 210-1/R3 122	Lines-Theology II	18	18
		SENIOR	<u>10</u>	10
MAJOR	Intl. Bus. **	Advanced IB Electives	6	6
BUS CORE	Mgt. 455	Bus. Policy &Strategy	3	
BUS CORE	POM 471	Bus. Information Mgt.		3
	Area Studies ###	Area Electives	0/3	3
GE AREA V		Business Ethics-Elective	3	3
GE FREE	Elective	Elective		3_

TOTAL: 132-134 credits

15/18

15

^{*} See note on Math Options, page 144.

Public Speaking (COMM 100) and Composition (ENGL107) are required except for students who receive APcredits or are certified by exam as satisfying the Communication Skills Requirement

** Four of the five following courses: Acc 475, Ecd/IB 475, Fin/IB 475, Mgt/IB 475; Mkt./IB 475; and two of the following courses: IB 490, Eco 366, Eco 465, and any of the five functional international business courses not already taken. (Acc 475 and Eco 465 require additional prerequisties beyond the business core.)

##Global Studies electives are Geop 134 (highly recommended), PS 212, PS213, HPS 214, H/Geog 217.

Area Studies electives include any Humanities course that focuses on specific areas or regions of the world (not U.S.).

MANAGEMENT/MARKETING

DR. BIBERMAN, Chairperson

Management skills, which are essential for the success of an organization, are based on an understanding of how to work effectively with people and how to analyze, design and continuously improve an organization's structure and processes, This major covers the concepts needed for effectively managing an organization and provides a flexible background to help the management major to cope with changing roles and expectations of a changing environment. A wide variety of opportunities are available to the management major in private industry, government, educational institutions and not-for-profit institutions

MANAGEMENT Dept. and No. Credits		Descriptive Title of Course		
	o. cano	FRESHMAN	FALL	SPRING
GE AREA I	Math *	Math Option	3/4	3/4
GE AREA II	Eco. 153-154	Prin. of MicroMacro. Eco.	3	3
GE AREA III	Communications #	Electives	3	3
GE AREA IV	Humanities	Electives	3	3
GFE AREA V	Phil. 120/T/RS 121	Intro. to PhilTheology I	3	3
PHYS EDUC	Ph. Ed.	Electives	1	<u>1</u>
			16/17	16/17
		SOPHOMORE		
BUS CORE	Acc. 253-254	Financial-Managerial Accou	ınting 3	3
BUS CORE	QMS 251-252	Statistics for Bus. I-II	3	3
BUS CORE	Mgt. 251	Legal Environment of Bus.	3	
	Math/Humanities	Math Option (or Humanities		3
-	CMPS104 &Lab	Computing for Business &L	ab	3
GE AREA IV		Elective	0	3
	Phil. 210/T/RS 122	Ethics-Theology II	3	
PHYS EDUC	Pn. Ea.	Electives	1 16	<u>1</u> 16
			10	10
		JUNIOR		
MAJOR	Mgt. 361 or 460 **	Personnel Mgt. or Org. The	orv	3
MAJOR	Mgt. 362 or 461 **	Employee/Mgt. Relations or		J
1717 10 01 1	Mgt. of Admin. Processes &C			3
BUS CORE	Mgt. 351-352	Princ. of Management I-II	3	3
BUS CORE	Mkt. 35I-Fin. 351	Intro. to MktgIntro. to Fina	nce 3	3
BUS CORE	QMS. 351-POM 352	Intro. Mgt. SciProd. & Op		3
BUSCORE	Eco. 351	Environment of Intl. Busines	ss 3	
GE AREA IV	Humanities	Elective		3/6
			15/18	15
		SENIOR		_
MAJOR	Mgt. Elective ##	Electives	6	6
BUS CORE	POM 471	Bus. Info. Mgt.	3	
BUSCORE	Mgt. 455	Bus. Policy & Strategy		3
GE AREA IV	Humanities	Elective Bus Ethics	2	3
GE AREA V GE FREE	T/RS - Phil. 211 Elective	Elective - Bus. Ethics Elective	3	3
GE FREE	Elective	Elective	15	3 15
			13	13

TOTAL: 127 credits

#Public Speaking (COMM100) and Composition ENGL 107) are required except for students who receive APcredits or are certified by exam as satisfying the Communication Skills requirements

^{*} See note on Math Options, page 144.

**Students who want a focus on the management of people should select MGT 361 and 362. MGT. 460 and 461 should be chosen by those who want a focus on the management of administrative processes and change. Other combinations can be chosen in consultation with the student's advisor.

##Management majors will select four of the following courses: Mgt. 471, 472, 473, 475, 490 or the two focus courses not taken.

MGT. 161 Staff

Intro to Business

3 credits

Nature, types, and principles of business. Factors to consider in starting or choosing a business organization. Overview of business functions-finance, marketing, production, accounting, and management--in an analytical framework. Attention to business environment: legal, governmental, social and ethical. Enrollment is restricted to Associate Business Degree students. Non-business students may take this course as a free elective with the permission of the Dean of Dexter Hanley College.

MGT. 251 Prof. Wormuth, Staff

Legal Environment of Business

3 credits

The nature, sources, formation, and applications of law. The judicial function, the court system, litigation and other methods of resolving disputes, legislation law from judicial decisions, law by administrative agencies, regulation of business activity, antitrust law, consumer protection, environment and pollution control. Substantive review of tort, criminal and insurance law. Full review of property rights for both personal and real property. Attention to business organization, principal of agency, partnership and corporation

MGT. 351 Staff

Principles of Management I

3 credits

(Prerequisite: Junior standing) Survey course examines key aspects of organizations and their management e.g., dynamic environments and their effects, organization design and structure, roles/functions of managers, managing technology and change, global management, and alternative types of organizations. This course examines the expanding role of the manager from the traditional areas of planning, organizing, controlling and directing

MGT. 352 Staff

Principles of Management II

3 credits

(Prerequisite: Mgt. 351) Survey course examines the individual in the work setting working with a variety of people inside and outside the organization. This course deals with such issues as motivation, leadership, communication diversity at the work place, and with individual effectiveness, interpersonal relations and group skills

MGT. 361 Dr. Biberman, Staff

Personnel Management

3 credits

(Prerequisite: Mgt. 351) This course will describe and explain the preparation of job descriptions, demographics of labor resources, recruitment policies, interviewing techniques, hiring contracts, aptitude testing and performance evaluation, labor turnover and labor mobility, employee morale, complaints and grievances, disciplinary procedures, employee health and safety, wage and hour administration, and government regulations relating to labor. The handling of absenteeism, alcoholism, and drug addiction, and other functional duties of a personnel department will also be covered.

MGT. 362 Dr. Goll, Staff

Employee-Management Relations

3 credits

(Prerequisite: Mgt. 351) This course will focus on employee-management practices in contemporary society. It examines the employee participation in unions and their spill-over effect on nonunion settings. Course topics include unions, the collective bargaining process, wages and benefits, seniority, grievance procedures, and arbitration. Discrimination in employment and equal employment opportunity will be discussed, as well as future issues in union and nonunion settings and international employee-management relations

MGT. 455 Drs. Brumagim, Goll, Tischler

Business Policy and Strategy

3 credits

(Prerequisites: Seniors only, Fin. 351, POM 352, Mgt. 352, Mkt. 351) This is the capstone course for all business majors. Concepts and skills developed in the prerequisite courses are integrated and applied to the overall management of an organization. Topics will include setting objectives, designing strategic plans, allocating resources, organizational structuring and controlling performance.

MGT. 460

Dr. Goll, Prof. Hewitt, Staff

Organization Theory

3 credits

(Prerequisites: Mgt. 351) Study of the forces both within and outside the organization that determine the structure and processes of an organization. Topics to be covered will include technology and size influences, conflict, boundary roles, matrix structure, political factors and sociotechnical systems.

MGT. 461 Management of Administrative Processes and Change

Drs. Brumagin, Tischler 3 credits

(Prerequisite: Mgt. 460) This course examines the process of administration from an open systems framework. The effects of change, (particularly technological and environmental change) on administrative systems life-cycles are discussed. This course also investigates the effect of total quality management on administrative systems. Particular attention will be given to the managing processes across administrative subsystems. Topics will include: open systems theory, administrative systems design, total quality management, administrative transactions analysis and management, administrative control of change processes

MGT. 462 Project Management in Organizations

Dr. Brumagin, Staff

3 credits

(Prerequisites: Mgt. 351) This course will examine advanced project management concepts from all phases of the project lifecycle (from requirements specification through post-project assessment). Special emphasis will be placed on understanding projects within the context of complex organizational settings by utilizing an open systems perspective. Linkages with more permanent administration structures within the organization will be reviewed. Finally, the effect of current management trends (such as total quality management) on project management will be discussed.

MGT. 471 Group Dynamics

Drs. Biberman, McKeage

3 credits

(Prerequisite: Mgt. 351 or permission of instructor) Survey and analysis of constructs, research and applications of small group phenomena in an organizational context. Examines the various theories, research measurements and observational methods used in studying groups. Students will be able to explore their own behavior in groups by participating in various groups and, or by observing others in group experiences. The course will prepare students to be effective in groups

MGT. 472 Prof. Hewitt, Staff

Women and Men in Management

3 credits

(Prerequisite: Mgt. 351) This course explores the opportunities for women in management as well as the special skills and insights needed by women in order to take full advantage of such opportunities. This course will focus on the effects of having men and women acting as colleagues in the workplace and discuss the problems which may ensue. The course will prepare both men and women for the gender issues which can affect managerial performance. Topics to be covered include sexual harassment, the dual career family and malefemale socialization.

MGT. 473 Fr. McGowan, Staff

Organizational Social Responsibility

3 credits

(Prerequisite: Mgt. 351 or permission of the instructor) This course is designed to introduce students to basic concepts which underlie the social responsibility aspect of the management process. The role of pluralism is examined in the societal system to provide an understanding of the evolving relationship between organizations and society as a whole. The essential nature of the managerial approach is explored in the light of the increasing importance of societal impact on the organization.

MGT. /IB 475 International Management Dr. Chowdhury, Staff

3 credits

(Prerequisites: Eco. 351, Mgt. 351) Designed as an advanced level undergraduate course on international business. Focuses on functional strategies of multi-national corporations (MNCs), structure & control systems of MNCs, and comparative management. The specific MNC strategies to be covered include entry, sourcing, marketing, financial, human resource, and public affairs. The study of structure and control systems delves into issues such as corporate structure, headquarters-subsidiary relationships. Study of comparative management systems focuses on nature of management systems & practices in different cultures. Projected as a mainly case oriented course.

MARKETING

Marketing is "people-oriented," focusing on the interaction between the firm and its market (buyers). The marketer explores major needs to develop new products and to position them so that buyers see their relevance, Marketing majors are introduced not only to the visible marketing tools: products, salespeople, and the various selling and promotional techniques; but also to less visible marketing functions; marketing research and the firm's interactions with wholesalers and retailers. The student will develop both the quantitative and qualitative skills needed to succeed in a real business environment.

MARKETING Dept. and No. Credits		Descriptive Title of Course			
	Orcuits	FRESHMAN	FALL	SPRING	
GE AREA I	Math *	Math Option	3/4	3/4	
GE AREA II	Eco. 153-154	Prin. of MicroMacro. Eco.		3	
	Communications #	Electives	3	3	
GE AREA IV		Electives	3	3	
	Phil. 120/T/RS 121	Intro. to PhilTheology I	3	3	
PHYS EDUC		Electives	1	<u>1</u>	
			16/17	16/1 7	
		SOPHOMORE			
BUS CORE	Acc. 253-254	Financial-Managerial Accou	untina 3	3	
BUS CORE	QMS 251-252	Statistics for Bus. I-II	3	3	
BUS CORE	Mgt. 251	Legal Environment of Bus.	3		
GE AREA I/IV	/ Math/Humanities	Math Option (or Humanities	s Elective)	3	
GE AREA III	CMPS104 &Lab	Computing for Business &L		3	
GE AREA IV	Humanities	Elective		3	
GE AREA V	Phil. 210/T/RS 122	Ethics-Theology II	3	3	
PHYS EDUC	Ph. Ed.	Electives	1	<u>1</u>	
			16	16	
		JUNIOR			
MAJOR	Mkt. 361	Marketing Research		3	
MAJOR	Mkt. 362	Consumer Behavior		3	
BUS CORE	Mgt. 351-352	Princ. of Mgt. I-II	3	3	
BUS CORE	Mkt. 351-Fin. 351	Intro. to Marketing-Intro.			
		to Finance	3	3	
BUS CORE	QMS. 351-POM 352	Intro. to Mgt. SciProd.	_		
	_	and Op. Mgt.	3	3	
BUSCORE	Eco. 351	Environment of Intl. Bus.	3		
GE AREA IV	Humanities	Elective	4=/40	3/6	
		OFNIOR	15/18	15	
MALOD	NAL 470 400	SENIOR		0	
MAJOR	Mkt. 470-490	Marketing CommMkt. Ser		3	
MAJOR	Mkt. Electives	Mkt. Electives	3	3	
BUS CORE	POM 471	Bus. Information Mgt.	3	2	
BUSCORE	Mgt. 455	Bus. Policy &Strategy		3 3	
GE AREA IV GE AREA V	Humanities T/RS-Phil. 211	Elective Business Ethics	3	3	
GE AREA V GE FREE	Elective	Elective-Business Ethics Elective	3		
GEFREE	Elective	FIECUVE	15	3_ 15	
			15	13	

TOTAL: 127 credits

^{*} See note on Math Options, page 144.

[#] Public Speaking (COMM 100) and Composition (ENGL107) are required except for students who receive APcredits or are certified by exam as satisfying the Communication Skills Requirement

MKT. 351 Staff

Introduction to Marketing

3 credits

(Prerequisites: Junior standing, Eco. 153, 154) This course introduces the student to the field of marketing. An overview of the principles on which the discipline is founded is provided to students. In addition, the role that various institutions such as manufacturing firms, wholesalers and retailers, and other facilitating middlemen play in the marketplace is examined. The marketing concept is presented as the framework under which the decisions related to marketing mix variables (product, place, price and promotion) are made by organizations

MKT. 361 Marketing Research Dr. Chattopadhyay, Staff

3 credits

(Prerequisite: Mkt. 351) Study of the role of marketing information as the basis for decision making. Topics include research design, methods of gathering data, questionnaire structure, interviewing methods, and preparing the final report. Examples of various types of research problems and quantitative techniques used by marketing management are presented

MKT. 362 Staff

Consumer Behavior

3 credits

(Prerequisite: Mkt. 351) Study of theories of consumer behavior. The buyer is analyzed at the individual level in terms of motivation, attitudes, etc. and at the social level in terms of influence on buying behavior from the socio-economic environment

MKT. 470 Dr. Zych, Staff

Marketing Communications

3 credits

(Prerequisite: Mkt. 351) Personal and mass communication approaches generated by manufacturers and intermediates or institutions toward target markets. The design of advertising campaigns to shift consumer attitudes, to secure resellers' support and to inform, persuade and move them to action. Development of copy selection of media and measurement of promotion effectiveness including evaluation of sales force

MKT. 471 Dr. Sumrall

Sales Force Management

3 credits

(Prerequisites: Mgt. 352, Mkt. 351) This course is intended to develop the concepts and techniques needed to identify and analyze the various decision areas faced by a sales force manager. Topics to be covered include recruiting, selecting, and training the sales force; forecasting, budgeting and sales quotas; assigning, motivating and compensating the sales force

MKT. 472 Dr. Sumrall

Retailing Management

3 credits

(Prerequisites: Mgt. 352, Fin. 351, Mgt. 351, QMS 351) This course is intended to focus on the decision areas facing retail managers. Topics to be covered will include retailing, structure, merchandising, locations, store layout, promotion, pricing and personnel

MKT./IB 475 Dr. Chattopadhyay

International Marketing

3 credits

(Prerequisites: Mkt. 351) Analysis of the marketing strategies of multinational corporations with emphasis on the internal environment of country markets. Discussions will include comparisons of different regional markets along socio-economic, political and cultural dimensions. Different types of international market barricades and the corresponding market entry strategies will be analyzed. Additional readings from international publications will be required

MKT. 476 Dr. Balakrishnan

Marketing Strategy

3 credits

(Prerequisite: Mkt. 351) The theme of this course is building effective marketing strategies through integrated decision making. Emphasis is on different decision models within functional areas such as demand analysis, consumer research, product and promotion management, etc. Case discussions and advanced readings will be required

QUANTITATIVE MANAGEMENT SYSTEMS

DR. KAKUMANU, Chairperson

Production and Operations Management is primarily concerned with the effective management of production and operations systems in manufacturing and service organizations. Career opportunities include:

Manufacturing		Services	
V.P. Manufacturing	Plant Manager	V.P. Operations	Store Manager
Production Manager	Quality Control Manager	Operations Manager	Customer Service Manager
Materials Manager	Production Planning Analyst	Supplies Specialist	Warehouse Manager
Inventory Analyst Warehouse Manager	Purchasing Manager Shipping Specialist	Buyer or Purchasing Agent	Inventory Analyst

PRODUCTION AND OPERATIONS MANAGEMENT

Dept. and No. Descriptive Title of Course

Dept. and No. Descriptive fille of Course				
	Credits			
		FRESHMAN	FALL	SPRING
GE AREA I	Math *	Math Option	3/4	3/4
GE AREA II	Eco. 153-154	Prin. of MicroMacro. Eco.	3	3
	Communications #	Electives	3	3
GE AREA IV		Electives	3	3
	Phil. 120/T/RS 121	Intro. to PhilTheology I	3	3
PHYS EDUC	Ph. Ed.	Electives	1	<u>1</u>
			16/17	16/17
		SOPHOMORE		
BUS CORE	Acc. 253-254	Financial-Managerial Accou	ınting 3	3
BUS CORE	QMS 251-252	Statistics for Bus. I-II	3	3
BUS CORE	Mgt. 251	Legal Environment of Bus.	3	_
	Math/Humanities	Math Option (or Humanities	_	3
	CMPS104 &Lab	Computing for Business &L		3
GE AREA IV		Elective	ab	3
	Phil. 210/T/RS 122		2	3
		Ethics-Theology II	3	
PHYS EDUC	Pn. Ea.	Electives	1	<u>1</u>
			16	16
		JUNIOR		
MAJOR	POM 361	Productivity Management		3
MAJOR	POM EI.	POM Elective		3
BUS CORE	Mgt. 351-352	Prin. of Management I-II	3	3
BUS CORE	Mkt. 351-Fin. 351	Intro. to Mkt Intro. to Fina	nce 3	3
BUS CORE	QMS 351-POM352	Intro. Mgt. Sci Prod. & Op		3
BUS CORE	Eco. 351	Environment of Intl. Bus.	3	· ·
GE AREA IV		Electives(s)	Ü	3 <u>/6</u>
OL /IIIL/III	Tamaniles	£100(1700(0)	15/18	15
		SENIOR	13/10	13
MAJOD	DOM 470		2	
MAJOR	POM 470	Adv. Prod. & Inv. Mgt.	3	0
MAJOR	POM Electives	POM Electives	3	3
	POM 473	Computer Applications to M	itg. Mgt.	3
BUS CORE	POM 471-Mgt. 455	Bus. Info. Mgt		
		Bus. Policy & Strategy	3	3
GEAREAIV	Humanities	Elective		3
GE AREA V	T/RS-Phil. 211	Elective - Business Ethics	3	3
GE FREE	Elective	Elective		3_
			15	15
			. •	. •

TOTAL: 127 credits

* See note on Math Options, page 144.

Public Speaking (COMM 100) and Composition (ENGL107) are required except for students who receive APcredits or are certified by exam as satisfying the Communication Skills Requirement

MINOR IN OPERATIONS MANAGEMENT

The minor in Operations Management (18 credits) must include QMS 252, QMS351, POM 352, and POM 471 and any two of the following: POM 361, POM 363, POM 364, POM 365, POM 470, POM 473, POM 476, or POM 490.

QMS 251 Statistics for Business I

Drs. Gougeon, Gnanendran,

3 credits

(Prerequisite: Math 107 or 114) Detailed coverage of descriptive statistics. An introduction to the elements of probability theory (including Bayes' theorem) and decision theory, and index numbers. The major discrete and continuous probability distributions are covered with an emphasis on business applications. Data analysis will be done using the computer software package MINITAB

QMS 252 Statistics for Business II

Drs. Gougeon, Gnanendran,

Prave. Staff

Prave, Staff

3 credits

(Prerequisite: QMS 251: corequisite: CMPS 104) A survey of inferential statistical methods covering sampling distributions, interval estimation, hypothesis testing, goodness-of-fit tests, analysis of variance, regression and correlation analyses, and non-parametric statistics. Data analysis will be done using the computer software package MINITAB

QMS 253 Dr. Gougeon, Staff

Statistics for Economics

3 credits

(Prerequisite: Math 107 or 114) Coverage of statistical tools to analyze economic data. Some of the topics to be covered include measures of central tendency, dispersion, probability distributions, index numbers, time series analysis, regression and correlation, and analysis of variance. Data analysis will be done using the computer software package MINITAB

QMS 351

Drs. Chien, Cunningham, Gnanendran, Staff

Introduction to Management Science

3 credits

(Prerequisite: Junior standing, CMPS 104, QMS 252) A survey of the quantitative techniques which are used by modern managers. Topic coverage focuses on model building, linear programming methods, queuing models, project management and simulation. Emphasis is placed on the use and limits of these quantitative methods

POM 352

Drs. Chien, Cunningham,

Production and Operations Management

3 credits

Gnanendran, Staff

(Prerequisites: QMS 351, CMPS 104, Junior Standing) An introductory course designed to give the student a functional view of how to manage the activities involved in the process of converting or transforming resources into products or services. Topics covered include an overview of strategic decisions, forecasting, product design, process planning, facility layout, basic inventory models, capacity planning, aggregate planning and scheduling

POM 361

Drs. Cunningham, Tamimi, Staff

Productivity Management

3 credits

(Prerequisite: QMS 252, Junior standing) A study of productivity and materials flow. Topics include: productivity measurement, Just-in-Time techniques, synchronizing product flow, quality control issues, layout, job design, maintenance and purchasing issues

POM 363

Drs. Prave, Tamimi, Staff

Total Quality Management

3 credits

(Prerequisite: QMS 252) The philosophy of Total Quality Management (TQM) and issues concerning its implementation are studied, covering the approaches of well-known leaders in the field. Topics include employee empowerment, team-building, leadership for quality, statistical

process control, problem-solving methodology for continuous improvement, process capability, product and process design interaction, Taguchi methods, and the role of inspection in TQM

POM 364 Service Operations Management

Drs. Cunningham, Prattipati,

3 credits

Tamimi, Staff

(Prerequisite QMS 252) Principles of operations management applied to service organizations, distinctive characteristics of services, and the operations function of services. Topics include: Service system design; location and layout of services; planning, scheduling and control of services; service measurement and quality assurance; management information systems in services; and not-for-profit businesses

POM 365

Dr. Cunningham, Staff

Logistics Management

3 credits

(Prerequisite: POM 352) The design, operation and control of logistics systems for production and service firms. Topical coverage includes those activities associated with the physical supply and physical distribution efforts of the firm. Example activities are:facility location, logistics customer service, order processing systems, mode and carrier selection, warehousing, and logistics requirements planning.

POM 470 Dr. Chien, Staff

Advanced Production and Inventory Management

3 credits

(Prerequisite: POM 352) Production planning and inventory management within the organization. Topics covered include forecasting, aggregate planning, capacity planning, master production scheduling, material requirements planning, production activity control, purchasing, inventory models, and problems of practical applications

POM 471

Drs. Kakumanu, Prattipatti, Staff

Business Information Management

3 credits

(Prerequisites: CMPS 104, Mgt. 351) Computers and how they can be applied to the operations and management of business firms. The topics include data processing concepts, overviews of computer hardware and software, modern data and information processing systems, applications of computers in business, acquiring and managing of computer and information resources. Relational database management software packages will be used to gain hands-on experience

POM 473

Drs. Kakumanu, Prattipatti, Staff

Computer Applications to Manufacturing Management

3 credits

(Prerequisite: POM 471) This course covers aspects of data and communication resources of organizations and the management of these resources to help achieve organizational goals. Topics include distributed databases, data networks and connectivity, electronic data interchange, and business partnerships. Software packages will be used to gain hands-on experience and to develop class projects.

POM 476

Drs. Tamimi, Prattipatti, Staff

Technology Management

3 credits

(Prerequisite POM 352) The course covers contemporary topics in technology including: role of technology in organization; choice of process technology; policy and strategy; technology positioning; automation and information technologies in manufacturing; moving beyond Taylorism and other issues in technology management for the 90's.

THE COLLEGE OF HEALTH, EDUCATION, AND HUMAN RESOURCES

James J. Pallante, Ed.D., Dean

The College of Health, Education, and Human Resources was established in 1987 in response to the unique needs of students preparing to enter directly into a variety of professional fields. The College has been designed to incorporate theory into practice, and it is this belief that structures our pedagogy and our curriculum. Our programs of study require students to look not only at their chosen field of study, but also to the world around them. This is accomplished in a variety of ways; through Internships, Service-Learning experiences and appropriate professional certifications

COUNSELING AND HUMAN SERVICES

DR. HALL, Chairperson

DR. TOLOCZKO, Director of Human Services

The Human Services curriculum is designed to develop in students the values, knowledge and skills necessary to work with people in a variety of settings and situations. The sequence of courses focuses on understanding normal and abnormal human adjustment across the lifespan and on developing skill in interventions designed to maximize human adjustment and development. Core requirements in the major emphasize values, knowledge, and skills common to all fields of human services, while electives allow students to develop competence in assisting specific populations. A three-credit, 138 hour, internship experience is required of all majors, with a second, three-credit internship available as an elective

In order to graduate, Human Service majors must maintain a 2.5 GPA in major courses and full-time students must complete a minimum of ten hours of community service during each Fall and Spring semester registered as a Human Services major. Hanley students must accumulate a minimum of eighty hours by graduation

The curriculum is geared toward students who have high social science interests as well as general scientific interest and aptitude in the social and behavioral sciences. The curriculum prepares students for entry-level positions in a variety of human services positions in private or public settings, or for graduate study in counseling, social work, or related social or behavioral science professions.

HUMAN SERVICES Dept. and No.

Descriptive Title of Course

•	Credits	·		
		FRESHMAN	FALL	SPRING
MAJOR	HS 111	Introduction to Human Adjus	tment	3
MAJOR	HS 112	Human Services Systems		3
COGNATE		Psych. 110 *Fundamentals of	of Psychological	ogy 3
GE AREA III	Communications * *	Electives	3	3
GE AREA III	CMPS 104	Computing for Business and		
		Social Science		3
GE AREA IV		Electives	3	3
GE AREA V	Phil. 120- T/RS 121	Introduction to		
		Philosophy-Theology I	3	3
PHYS EDUC		Ph. Ed. Physical Education_	1	<u> </u>
			16	16
		SOPHOMORE		_
MAJOR	HS 241	Case Management and Inter	viewing	3
MAJOR	HS 242	Counseling Theories		3
MAJOR	HS 293	Research Methods		_
00011475	D 1 004 000	in Human Services	•	3
COGNATE	Psych. 221-222	Childhood and Adolescence-	- 3	•
05.4554.1		Adulthood and Aging	•	3
GE AREA I	11 92	Nat. Sci./Quant.Electives	3	3
GE AREA IV		Electives	3 3	3
GE AREA V	T/RS 122- Phil. 210	Theology II-Ethics		3
PHYS EDUC	Ph. Ed.	Physical Education	1	1
		unuop	16	19
MAJOD	110.040	JUNIOR	4	
MAJOR	HS 340	Career Seminar	1	
MAJOR	HS 341	Group Dynamics	3	•
MAJOR	HS 380	Internship in Human Service		3
MAJOR	HS Electives	Human Services Electives	3	6
COGNATE		Electives	0	_
		Electives	3	3

GE AREA I	Nat. Sci./Quant	Elective	3	
GE AREA IV	Humanities	Elective		3
GE AREA V		PhilT/RS		
	Elective		3	
			16	15
		SENIOR		
MAJOR	HS 441	Crisis Intervention	3	
MAJOR	HS Elective	Human Services Electives	3	3
COGNATE	Electives	Electives	6	3
GE AREA IV	Humanities	Elective	3	
GE AREA V	PhilT/RS	Elective		3
GE FREE	Electives	Electives	3	6
			18	15

TOTAL: 131 credits

- * To avoid duplication of course content, Human Services majors should not take Psych. 225 Abnormal Psychology, Psych. 330 Research Methods, or Psych. 360 Clinical Psychology. Students who wish to declare a double major or a minor in Psychology should consult their advisor
- * * Students will take COMM 100 and ENGL 107 unless exempted by the University. Students exempt from either COMM 100 or ENGL 107 will be expected to take ENGL 111. Students exempt from both COMM 100 and ENGL 107 will be expected to take ENGL 111 and an AREA III elective

MINOR. A minor in Human Services requires HS 111, 112, 241, 242, 341, and one HS elective course.

SERV 192. 292, 392, 492

Staff

Service Learning

0 credits

This requirement will provide students an opportunity to go out into the surrounding community to work with agencies/groups and individuals in need of service. The students will be expected to reflect upon their individual experiences as they relate to their academic work. These reflections are to be shared with the Director of Collegiate Volunteers. The Service-Learning hours will be logged, checked and noted on a student's transcript. Serv 292 requires prior completion of Serv 192, 292 for 392 and 392 for 492

HS 001 Staff

Residence Life: Theory and Practice

0 credits

Introduction to the Resident Assistant position on the University of Scranton residence life staff. Communication skills, conflict resolution, crisis intervention and referral, development of community in a residence facility, and the personal development of RAs as staff members will be stressed. ENROLLMENT LIMITED TO RESIDENT ASSISTANTS. NOT FOR ACADEMIC CREDIT.

HS 111 Staff

Introduction to Human Adjustment

3 credits

Introduction to human adjustment throughout the lifespan. Focuses on discrimination of normal and abnormal behavioral and emotional responses to developmental life stages and to common developmental concerns.

HS 112 Staff

Human Services Systems

3 credits

Examines the human service systems and institutions which have evolved as a response to human need. Explores both the effect of social problems on individuals and families and the service systems designed to alleviate such problems

HS 241 Staff

Case Management and Interviewing

3 credits

The role of the human service professional as a case manager or coordinator of services is examined. Initial interviewing skills and techniques are discussed with an emphasis on case conceptualization, problem identification, goal selection, evaluation, and follow-up

HS 242 Staff

Counseling Theories

3 credits

The role of the human services professional as an individual counselor or caseworker is examined. Theories and techniques as well as problems in individual counseling are explored

HS 284 Staff

Special Topics

3 credits

Courses developed to provide in-depth coverage of specific topics in human services. Course title will be provided in advance of registration. May be used only once to satisfy major or minor elective requirement.

HS 293 Staff

Research Methods in Human Services

3 credits

An introduction to research methodology as applied to problems in human services agencies and settings. Specific topics include descriptive, experimental, and quasi-experimental research methods. Emphasis is placed on development of the student's ability to be a critical consumer of research in human services.

HS 321 Staff

Physical Disabilities

3 credits

Selected physical conditions and/or disabling conditions are examined with particular emphasis on body systems involved, treatment possibilities, residual function limitations, and psychological impact of each condition.

HS 322 Staff

Mental Retardation

3 credits

Etiology, diagnosis, assessment, treatment, and prevention of mental retardation and developmental disabilities are examined. Emphasis will be placed on innovative and community-based treatment approaches.

HS 323 Staff

Psychiatric Rehabilitation

3 credits

An examination of the problems associated with mental and emotional disturbances. Emphasis is placed on contemporary modalities of rehabilitation as they relate to community mental health programs, and innovative non-medical treatment approaches. Critical issues in mental health will be discussed.

HS 331 Staff

Health and Behavior

3 credits

Focuses on stress which affects thoughts, emotions, and the body. Stress diseases of adaption include cancer, Type A Behavior, GI tract disorders along with stress-related thought disorders and emotional disturbances. Students learn to apply relaxation, cognitive restructuring, and record-keeping in the treatment of their own as well as others' health.

HS 332 Staff

Career Development

3 credits

Explores theories of career choice and adjustment. Emphasis will be placed upon methods and resources for facilitating career development throughout the lifespan. Career education, computerized information systems, and decision-making methods will be considered along with innovative approaches for placement of special needs populations

HS 333 Staff

Multiculturalism in Human Services

3 credits

Focuses on current social and cultural issues in human services and related fields. Human development in a multicultural society will be examined and the basic objectives and dimensions of multicultural intervention will be defined. Student self-awareness of values, attitudes, and beliefs will be emphasized.

HS 334 Staff

Marital and Family Counseling

3 credits

Theories of family counseling will be presented with specific attention to the structural and strategic approaches. A variety of family counseling techniques and stages will be learned through the use

of role play and videotaping. The utilization of family counseling will be discussed. (Also listed as HD 234.)

HS 335 Staff

Administration in Human Services

3 credits

Focuses on the development of skills and knowledge related to program and organizational development, and community-wide planning in human services. Topics include organizational theory applied to human service settings, consultation, supervision, planning, funding, and training

HS 336 Staff

Recreational Therapy

3 credits

Designed to develop an understanding of purpose, organization, administration and delivery of recreational therapy services for the handicapped

HS 340 Staff

Career Seminar 1 credit

(Majors only; Prerequisite for HS 380) Designed to introduce the student in the Human Services curriculum to counseling, human development, and human services occupations. Short- and long-term goals are examined in preparation for employment or further study

HS 341 Staff

Group Dynamics

3 credits

A basic understanding of group dynamics and individual behavior in groups is presented. Methods of developing and organizing group programs are stressed. Students participate in a group experience.

HS 380 Staff

Internship in Human Services

3 credits

(Prerequisite: HS 340) The internship is a significant clinical and educational experience that ends the third year of academic experience and involves a supervised practical experience in a community agency providing human services. It provides both a practical experience in the student's field and an opportunity to integrate knowledge from a variety of courses into a working professional. philosophy. Students will spend a minimum of 120 hours in the field placement and a minimum of 18 hours in on-campus staffing sessions. A semester project is required. Offered only during the Spring semester; prerequisite for HS 481. Graded Satisfactory (S) or Unsatisfactory (U.)

HS 421 Staff

Addictions 3 credits

Physical, social and psychological aspects of addiction: biochemical, nutritional, psychodynamic, and behavioral approaches to assessment, treatment, and prevention of addiction. Emphasis is on drug abuse and alcoholism.

HS 422 Staff

Substance Abuse Education

3 credits

Design, implementation, and evaluation of substance abuse education and prevention programs

HS 423 Staff

Legal and Health Aspects of Substance Abuse

3 credits

Legal and health consequences of substance abuse are examined. Special attention is given to the role of the substance abuse specialist in relationship to health care and legal systems

HS 441 Staff

Crisis Intervention 3 credits

Theory and practice of crisis intervention as applied to common crisis situations such as suicide, battering, violent behavior, post-traumatic stress disorder, substance abuse, sexual assault, and personal loss.

HS 481 Staff

Internship in Human Services

3 credits

(Prerequisite: HS 380) This second internship in Human Services involves 150 hours in a community agency or organization providing human services. It allows the student to follow-up on the experiences obtained during the first internship or to explore a different type of organization or experience within an organization. There is no on-campus staffing requirement. A semester project

may be required. This internship may be taken during any regular academic semester including Intersession and Summer and may be completed outside of the immediate University region. Approval by Program Director is required. Graded Satisfactory (S) or Unsatisfactory (U)

EDUCATION

DR. WILEY, *Director of Secondary Education* DR. DiGIAIMO, *Director of Elementary Education*

Through its various programs, the Department of Education endeavors to contribute to the improvement of education by preparing informed, inquiring, and skilled professionals for positions in the educational community. More specifically, the Department aims to provide persons with a breadth and depth of knowledge and understanding in their specialized area of professional practice and to provide training to ensure competence in the specific area of functioning. To this end, individual program competencies have been developed. Additionally the Department endeavors to offer opportunities for continued professional growth to practicing educators, to assist in the educational growth and development of the community served by the University, and to foster the advancement of knowledge through research in education

The Department of Education offers degrees in Secondary and Elementary Education, both leading to certification. Secondary Education concentrations lead to certification in:

Biology English German Physics
Chemistry French Latin Social Studies
Communication General Science Mathematics Spanish

Elementary Education leads to state certification (Pennsylvania, K-6)

The Education Department's programs are accredited by the Pennsylvania Department of Education. The University is also accredited by the National Council for Accreditation of Teacher Education. These accreditation, reciprocity and interstate agreements between Pennsylvania and selected states assure that courses taken will be considered for certification in most states. Competency tests are required for Pennsylvania Teacher Certification

A student may enter the secondary education program either as a major in education or in higher subject area. However, in both cases the student must be approved by the Department and follow the prescribed courses if he/she desires certification. All aspects of the state approved program must be completed to ensure recommendation for certification

Double majors, including both a subject area and education, may be arranged in the case of exceptional students. These must be approved by both departments involved and by the CHEHR dean. A specific program will be designed in each individual case. Double certification programs may also be arranged with the approval of the appropriate program directors

Education majors are evaluated regularly at a meeting of the Education Department faculty to access individual student's continuing potential to become a teacher. This determination is based on academic and personal qualities consistent with the competencies stated in Teacher Education: The Requirements and Curriculum Guide, copies of which are housed in the Weinberg Memorial Library and the Education Department. Students whose professional development is unsatisfactory in either or both of these areas are subject to departmental probation and may be recommended to the Dean of the college for dismissal from the education program

Additionally, as a matter of University policy, all Education majors are required to submit a completed Act 34 clearance to the Education Department prior to being placed in any field experience that would put them in direct contact with children. This clearance is collected by the University on behalf of the school entity wherein the field experience will occur. The completed Act 34 form will be delivered to the school entity by the Education Department after the clearance form is obtained by the student

The University will not maintain a student's Act 34 clearance form or background check after delivery of the clearance form to the school entity wherein the field experience will occur

ELEMENTARY EDUCATION

Dept. and No.		Descriptive Title of Cou	rse	
	Credits			
MAJOR MAJOR COGNATE	Educ. 121 Educ. 180 Educ. 140	Foundations of Education Field Exp. I Early Childhood Education	3	SPRING 3 1
GE AREA I GE AREA I GE AREA II	Math 104 Phys. 102 Psych. 110	Math for Elementary Teachers Earth Science Fund. of Psychology	3	3 3
GE AREA II GE AREA III	Psych. 221 Comm. 100- Engl. 107	Childhood & Adolescence Public Speaking-Composition		3 6
GE AREA V PHYS ED	Phil. 120- T/RS 121 Ph. Ed. *	Intro. Phil-Theology I Physical Education	3	3
			16	17
		SOPHOMORE		
MAJOR	Educ. 222-280 * *	Ed. PsychField Exp. II	3	1
MAJOR MAJOR	Educ. 241 Educ. 242	Found. Reading Instruction Math Methods for Elementary	Teaching	3 3
COGNATE	Nurs. 100	Family Health	r odoriii iş	3
GE AREA I	Biol. 100	Modern Concepts of Biology	4	
GE AREA II GE AREA IV	Geog. 134 PS 210	Intro. to Geography State and Local Government	3	3
GE AREA IV	Engl. 130	Children"s Literature		3
GE AREA V	T/RS 122- Phil. 210 Ph. Ed.	Theology II-Ethics	3	3 1
PHYS ED.	PII. EQ.	Physical Education	<u>1</u> 17	17
MAJOR	Edua 244	JUNIOR		
MAJOR	Educ. 344	Science Methods for Elementary Teaching	3	
MAJOR	Educ. 345	Language Arts Methods		3
MAJOR	Educ. 347-346	Inst. Str. Reading-Soc. Stud. Methods	3	3
MAJOR	Educ. 380 * *	Field Experience III	3	1
COGNATE	Educ. 341	Educ. Exceptional Child	3	•
COGNATE COGNATE	Educ. 342 NSCI 201	Educ. Media/Tech. Science/Human Environment		3 3
COGNATE	Educ. 343	Eval. & Measurement		3
GE AREA II	Chem. 100	Elements of Chemistry	3	0
GE AREA III GE AREA V	ARTH 110, 111 or 112 Elective	Art Elective T/RS or Phil. Elective		3 3
3		.,,,,,	15	19
		SENIOR * * *		
MAJOR	Educ. 440 * * * *	Classroom Mgt. for Elem. Educ	C.	3
MAJOR	Educ. 441 * * * *	Planning in Elem. Student Tea	ching	2
MAJOR	Educ. 442 * * * * 3	Instruc. in Elem. Student Teach	hing	
MAJOR	Educ. 443 * * * *	Managing Elem. Classrooms in Student Teaching	2	
MAJOR	Educ. 444 * * * *	Professional Growth in Elem. Educ.		3
GE AREA II	Foonemies for Education Ma	Eco. 410	2	
GE AREA IV	Economics for Education Ma Hist. 110 or 111	ijors History of U.S.	3 3	
GE AREA IV	Mus. 100	Understanding Music	3	
GE AREA IV		Intro. to Theatre	3 3 3 3	
GE AREA IV GE AREA V	ED/P 306	Literature Elective Philosophy of Education	3	
		, ,	18	13

TOTAL:132 credits

- * PHYS ED. -- 1 credit in Movement and Dance required
- * * Placement requires application and departmental approval
- * * * Semesters may be reversed at the discretion of the Director of the Elementary Education Program.
- * * * *These courses must be scheduled in the same semester. Educ. 440-444 comprise the student teaching semester.

PROGRAM:Secondary Education (Biology, 1391 /2 to 1431/2 credits) * Dept. and No. Descriptive Title of Course

•	Credits	•		
		FRESHMAN*	FALL	SPRING
MAJOR	EDUC 121	Foundations of Education	3	
MAJOR	EDUC 180	Field Experience I		1
COGNATE	Biol. 141-142	General Biology I, II	41/2	41/2
COGNATE	Phys. 102	Earth Science		3
GE AREA II	Psych. 110	Fund. of Psychology	2	3
GE AREA III GEAREAIII	Engl. 107 Comm. 100	Composition Public Speaking	3	2
GE AREA IV		Elective		3 3
GE AREA V	T/RS 121-122	Theology I, II	3	3
PHYS EDUC		Physical Education	1	· ·
	-	,		
			171/2	171/2
		SOPHOMORE		
MAJOR	EDUC 222	Educational Psychology	3	
MAJOR	EDUC 280 * *	Field Experience II		1
COGNATE	Biol. 201	Anatomy &Physiology	3	44/0
COGNATE COGNATE	Biol. 250 Chem. 112-113	Microbiology	41/2	41/2 41/2
COGNATE	NSCI 201	General Chemistry I, II Science &Human Env.	41/2	3
GE AREA II	Psych. 221	Childhood and Adolescence	Δ	3
GEAREAII	Elective	Elective	3	O
GE AREA IV		Electives	3	3
PHYS EDUC		Physical Education	1	
			171/2	19
MAJOD	EDIIO 242	JUNIOR	!	
MAJOR	EDUC 313	General Methods and Plan	ning 3	2
MAJOR MAJOR	EDUC 314 EDUC 340	Specific Subject Methods Reading Sec. School		3 3
MAJOR	EDUC 380 * *	Field Experience III	1	5
COGNATE	Biol. 260	Genetics	41/2	
COGNATE	Biol. 370	Animal Behavior		41/2
COGNATE	Biol. 375	Evolution	3	
GEAREAIV	Electives	Electives	3	3
GEAREAV	Phil. 120	Intro. to Philosophy	3	
GEAREAV	Phil. 431	Phil. of Science		3
GEAREAV	ED/P 306	Phil. of Education	•	3
PHYS EDUC	Ph. Ed.	Physical Education	<u> </u>	
			181/2	191/2
		SENIOR * * *		
MAJOR	EDUC 475 * *	Classroom Management		
	0	for Con Educa		2

for Sec. Educ.

3

EDUC 476 * *	Student Teaching PlanSec.	Ed. 2	
EDUC 477 * *			3
EDUC 478 * *	Student Teaching MgmtSec. Ed.2		
EDUC 479 * *	Student Teaching Pro. DevS	Sec. Ed.	3
Phys. 120	General Physics		4
Elective	Elective	3	
Elective	Elective	3	
Elective	Elective	3	
Phil. 120	Ethics	3	
Ph. Ed.	Physical Education	<u> </u>	
		17	13
	EDUC 477 * * EDUC 478 * * EDUC 479 * * Phys. 120 Elective Elective Elective	EDUC 477 * * Student Teaching InstrSec. EDUC 478 * * Student Teaching MgmtSec EDUC 479 * * Student Teaching Pro. DevS Phys. 120 General Physics Elective Elective Elective Elective Elective Phil. 120 Ethics	EDUC 477 * * Student Teaching InstrSec. Ed. EDUC 478 * * Student Teaching MgmtSec. Ed.2 EDUC 479 * * Student Teaching Pro. DevSec. Ed. Phys. 120 General Physics Elective Elective 3 Elective Elective 3 Elective Elective 3 Phil. 120 Ethics 3 Ph. Ed. Physical Education 1

Students who fail to demonstrate competence of at least the precalculus level are required to take Math. 103 prior to the Sophomore year.

PROGRAM: Secondary Education (Chemistry, 139 credits) Dept. and No. **Descriptive Title of Course**

	Credits			
		FRESHMAN	FALL	SPRING
MAJOR	EDUC 121	Foundations of Education	3	
MAJOR	EDUC 180	Field Experience I		1
COGNATE	Chem. 112-113	Gen. Anal. Chem I, II	41/2	41/2
COGNATE	Biol. 141	General Biology	41/2	
COGNATE	Phys. 102	Earth Science		3
GE AREA II	Psych. 110	Fund. of Psychology		3
GE AREA III	Engl. 107	Composition	3	
GEAREAIII	Comm. 100	Public Speaking		3
GE AREA V	T/RS 121-122	Theology I, II	3	3
PHYS EDUC	Ph. Ed.	Physical Education	<u> </u>	
			19	171/2
		SOPHOMORE		
MAJOR	EDUC 222	Educational Psychology	3	
MAJOR	EDUC 280 *	Field Experience II		1
COGNATE	Chem. 232-233	Organic I, II	41/2	41/2
COGNATE	Math. 114	Analysis I	4	
GE AREA II	Psych. 221	Childhood & Adolescence		3
GEAREAIII	Elective	Elective		3
GE AREA IV	Electives	Electives	3	6
GEAREAV	Phil 120	Intro. to Philosophy	3	
PHYS EDUC	Ph. Ed.	Physical Education	1	1
			181/2 _	<u>18</u> 1/2
		JUNIOR		
MAJOR	EDUC 313	General Methods and Plani	ning 3	
MAJOR	EDUC 314	Specific Subject Methods		3
MAJOR	EDUC 340	Reading Sec. School		3
MAJOR	EDUC 380 *	Field Experience III	1	
COGNATE	Chem. 350	Gen. Biochemistry I	3	
COGNATE	NSCI 201	Science &Human. Env.		3
GEAREAII	Electives	Electives	3	3
GEAREAIV	Electives	Electives	3	3
GEAREAV	Phil. 432	Phil. of Technology	3	
GEAREAV	Phil. 431	Phil. of Science		3
PHYS EDUC	Ph. Ed.	Physical Education	1	
			17	18

^{* *} Placement requires application and departmental approval; these courses must be scheduled in the same semester.

^{* * *} Fall/Spring courses may be reversed at the discretion of the Director of Secondary Education

	SENIOR * *		
EDUC 475 *	Classroom Management fo	r	
	Sec. Educ.		3
EDUC 476 *	Student Teaching PlanSec	c. Ed. 2	
EDUC 477 *	Student Teaching InstrSec	c. Ed.	3
EDUC 478 *	Student Teaching MgmtSe	ec. Ed.2	
EDUC 479 *			
	Sec. Ed.		3
Chem. 104	Science &Society		3
Phys. 120	General Physics I	4	
Chem. 360	Biophysical Chem. I	41/2	
Elective	Elective	3	
Phil. 210	Ethics	3	
		171/2	13
	EDUC 476 * EDUC 477 * EDUC 478 * EDUC 479 * Chem. 104 Phys. 120 Chem. 360 Elective	EDUC 475 * Classroom Management for Sec. Educ. EDUC 476 * Student Teaching PlanSec. EDUC 477 * Student Teaching InstrSec. EDUC 478 * Student Teaching MgmtSec. Educ. EDUC 479 * Student Teaching Pro. Dev. Sec. Ed. Chem. 104 Science & Society Phys. 120 General Physics I Chem. 360 Biophysical Chem. I Elective	EDUC 475 * Classroom Management for Sec. Educ. EDUC 476 * Student Teaching PlanSec. Ed. 2 EDUC 477 * Student Teaching InstrSec. Ed. EDUC 478 * Student Teaching MgmtSec. Ed.2 EDUC 479 * Student Teaching Pro. DevSec. Ed. Chem. 104 Science &Society Phys. 120 General Physics I 4 Chem. 360 Biophysical Chem. I 41/2 Elective Elective 3 Phil. 210 Ethics 3

^{*} Placement requires application and departmental approval; these courses must be scheduled in the same semester.

PROGRAM:Secondary Education (Communication, 134 credits) Dept. and No. Credits Credits

	Credits			
		FRESHMAN I	FALL	SPRING
MAJOR	EDUC 121	Foundations of Education		3
MAJOR	EDUC 180	Field Experience I		1
COGNATE	Elective	Communication Process	3	
COGNATE	Engl 140	English Inquiry		3
GEAREAI	Elective	Elective		3
GE AREA II	Psych. 110	Fund. of Psychology		3
GE AREA III	Engl. 107	Composition	3	
GEAREAIII	Comm. 100	Public Speaking		3
GEAREAIV	Elective	Elective	3	
GE AREA V	T/RS 121-122	Theology I, II	3	3
PHYS EDUC	Ph. Ed.	Physical Education	1	1
		•	16	17
		SOPHOMORE		
MAJOR	EDUC 222	Educational Psychology	3	
MAJOR	EDUC 280 *	Field Experience II		1
COGNATE	Elective	British Literature	3	
COGNATE	Elective	American Literature		3
COGNATE	Electives	Communication Processes	3	3
COGNATE	Elective	Communication Option		3
GE AREA I	Elective	Elective	3	
GEAREAII	Elective	Elective	3	
GEAREAIII	Wrtg. 210	Advanced Composition		3
GE AREA IV	Elective	Elective	3	
GEAREAV	Phil 120	Intro. to Philosophy		3
PHYS EDUC	Ph. Ed.	Physical Education		<u> </u>
			18	17
		JUNIOR		
MAJOR	EDUC 313	General Methods and Planni	ng 3	
MAJOR	EDUC 314	Specific Subject Methods		3
MAJOR	EDUC 340	Reading Sec. School		3
MAJOR	EDUC 380 *	Field Experience III	1	
COGNATE	Engl. 310	Strat. Tchg. Writing	3	
COGNATE	Engl. 460	Tchg. Modern Grammars		3
COGNATE	Elective	World Literature	3	
COGNATE	Electives	Communication Option	3	3
0-110	h. Caraa Cuidanaa Farradatian			

Fall/Spring courses may be reversed at the discretion of the Director of Secondary Education

COGNATE GEAREAII COGNATE PHYS EDUC	Elective Elective Elective Ph. Ed.	American Literature Elective Minority Literature Physical Education	3 <u>1</u>	3 3
		_	17	18
		SENIOR * *		
MAJOR	EDUC 475 *	Classroom Management for		
		Sec.Educ.		3
MAJOR	EDUC 476 *	Student Teaching PlanSec. E	d. 2	
MAJOR	EDUC 477 *	Student Teaching InstrSec. E	d.	3
MAJOR	EDUC 478 *	Student Teaching MgmtSec.	Ed.2	
MAJOR	EDUC 479 *	Student Teaching Pro.		
		DevSec. Ed.		3
GEAREAV	Phil. 210	Ethics		3
COGNATE	Elective	Communication Options	3	
GEAREAI	Elective	Elective	3	
GEAREAII	Elective	Psychology Elective	3	
GEAREA V	Elective	Elective	3	
GEAREAV	ED/P 306	Phil. of Education	<u>3</u> 18	
			18	13

^{*} Placement requires application and departmental approval; these courses must be scheduled in the same semester.

PROGRAM:Secondary Education (English, 134 credits) Dept. and No. Descriptive Title of Course

Dept. and No	/.	Descriptive Title of Co	ui se	
	Credits			
		FRESHMAN	FALL	SPRING
MAJOR	EDUC 121	Foundations of Education		3
MAJOR	EDUC 180	Field Experience I		1
COGNATE	Engl 140	English İnquiry	3	
COGNATE	Electives	American Literature	3	3
COGNATE	Elective	Rep. World Literature		3
GE AREA II	Psych. 110	Fund. of Psychology		3
GE AREA III	Engl. 107	Composition	3	
GEAREAIII	Comm. 100	Public Speaking		3
GEAREAV	Phil. 120	Intro. to Philosophy	3	
GE AREA V	· -	Theology I		3
PHYS EDUC	Ph. Ed.	Physical Education	1	<u> </u>
			16	17
		SOPHOMORE		
MAJOR	EDUC 222	Educational Psychology	3	
MAJOR	EDUC 280 *	Field Experience II		1
COGNATE	Elective	English Literature	3	
COGNATE	Elective	American Literature	3	_
COGNATE	Engl. 134	Shakespeare		3
COGNATE	Elective	Theatre Elective	_	3
GE AREA I	Elective	Elective	3	3
GEAREAII	Elective	Elective	3	
GEAREAIII	Wrtg. 210	Advanced Composition	•	3
GE AREA V	Phil. 210	Ethics	3	•
GEAREAV	T/RS 122	Theology II		3
PHYS EDUC	Ph. Ed.	Physical Education	40	<u>1</u> 17
			18	17
		JUNIOR		
MAJOD	EDUC 212		na 2	
MAJOR	EDUC 313 EDUC 314	General Methods and Planni	ng 3	3
MAJOR	EDUC 314	Specific Subject Methods		3

^{* *} Fall/Spring courses may be reversed at the discretion of the Director of Secondary Education

MAJOR MAJOR MAJOR COGNATE	ED/P 306 EDUC 340 EDUC 380 * Engl. 225	Educ. Philosophy Reading Sec. School Field Experience III Writing Women	1 3 3	3 3
COGNATE COGNATE	Engl. 310 Engl. 460	Strat. for Tchg. Writing Tchg. Modern Grammars	3	3
COGNATE	Elective	Minority Literature	3	· ·
COGNATE	Elective	Writing Elective		3
COGNATE	Elective	Rep. World Literature	3	
GEAREAII	Elective	Elective		3
PHYS EDUC	Ph. Ed.	Physical Education	<u>1</u>	
			17	18
		SENIOR * *		
MAJOR	EDUC 475 *	Classroom Management for		
		Sec. Educ.		3
MAJOR	EDUC 476 *	Student Teaching PlanSec. E	d. 2	
MAJOR	EDUC 477 *	Student Teaching InstrSec. E		3
MAJOR	EDUC 478 *	Student Teaching MgmtSec.	Ed.2	
MAJOR	EDUC 479 *	Student Teaching Pro.		
		DevSec. Ed.		3
COGNATE	Elective	English Literature Elective		3
GEAREAIV	Elective	Elective	3	
GEAREAI	Elective	Elective	3	
GEAREAII	Elective	Elective	3 3 3 3	
GEAREA IV	Elective	Elective	3	
GEAREAV	Elective	Elective	3	
			18	13

^{*} Placement requires application and departmental approval; these courses must be scheduled in the same semester.

PROGRAM: Secondary Education (General Science, 143 credits) Dept. and No. Descriptive Title of Course

	Credits			
		FRESHMAN	FALL	SPRING
MAJOR	EDUC 121	Foundations of Education		3
MAJOR	EDUC 180	Field Experience I		1
COGNATE	Biol. 141-142	General Biology I,II	41/2	41/2
COGNATE	Math. 114	Analysis I	4	
GEAREAII	Psych. 110	Fund. of Psychology		3
GE AREA III	Engl. 107	Composition	3	
GEAREAIII	Comm. 100	Public Speaking		3
GEAREAIV	Elective	Elective		3
GE AREA V	T/RS 121-122	Theology I, II	3	3
PHYS EDUC	Ph. Ed.	Physical Education	1	1
			181/2_	<u>18</u> 1/2
		SOPHOMORE		
MAJOR	EDUC 222	Educational Psychology	3	
MAJOR	EDUC 280 *	Field Experience II	1	
COGNATE	Phys. 121-121	General Physics I, II	4	4
COGNATE	Cmps. 102	Computer Literacy	3	
COGNATE	Chem. 112-113	Gen./Analy. Chem. I, II	41/2	41/2
GEAREAII	Psych. 221	Childhood & Adolescence		3
GE AREA III	Elective	Elective		3
GEAREA IV	Elective	Elective		3
GE AREA V	Phil. 120	Intro. to Philosophy	3	
PHYS EDUC	Ph. Ed.	Physical Education	<u>1</u>	
			181/2_	<u>18</u> 1/2

^{*} Fall/Spring courses may be reversed at the discretion of the Director of Secondary Education

MAJOR MAJOR MAJOR MAJOR COGNATE COGNATE	EDUC 313 EDUC 314 EDUC 340 EDUC 380 * Elective Phys. 101	JUNIOR General Methods and Planning Specific Subject Methods Reading Sec. School Field Experience III Environ. Cntxt. Modern Astronomy	3 1 3 3	3
COGNATE	Phys. 102	Earth Science		3
COGNATE	Elective	Technological Cntxt.		3
GEAREAII	Elective	Elective	3	
GEAREA IV	Electives	Electives	3 3 3	3
GEAREAV	Phil. 210	Ethics	3	
GEAREAV	Phil. 432	Phil. of Teaching		3
			19 1	8
MAJOR	EDUC 475 *	SENIOR * * Classroom Management		
		for Sec. Educ.		3
MAJOR	EDUC 476 *	Student Teaching PlanSec. Ed		
MAJOR	EDUC 477 *	Student Teaching InstrSec. Ed		3
MAJOR	EDUC 478 *			
MAJOR	EDUC 479 *	Student Teaching MgmtSec. E Student Teaching Pro.	d.2	
MAJOR			d.2	3
COGNATE	EDUC 479 * Elective	Student Teaching Pro. DevSec. Ed. Environmental Cntxt.		3
COGNATE COGNATE	EDUC 479 * Elective Chem. 104	Student Teaching Pro. DevSec. Ed. Environmental Cntxt. Science &Society	3	3 3
COGNATE COGNATE GEAREAII	EDUC 479 * Elective Chem. 104 Elective	Student Teaching Pro. DevSec. Ed. Environmental Cntxt. Science &Society Elective	3	3
COGNATE COGNATE GEAREAII GEAREAIV	EDUC 479 * Elective Chem. 104 Elective Elective	Student Teaching Pro. DevSec. Ed. Environmental Cntxt. Science &Society Elective Elective	3 3 6	3
COGNATE COGNATE GEAREAII GEAREAIV GEAREA V	EDUC 479 * Elective Chem. 104 Elective Elective Phil. 431	Student Teaching Pro. DevSec. Ed. Environmental Cntxt. Science &Society Elective Elective Philosophy of Science	3 3 6 3	3
COGNATE COGNATE GEAREAII GEAREAIV	EDUC 479 * Elective Chem. 104 Elective Elective Phil. 431	Student Teaching Pro. DevSec. Ed. Environmental Cntxt. Science &Society Elective Elective Philosophy of Science Physical Education	3 3 6 3 1	3 3

^{*} Placement requires application and departmental approval; these courses must be scheduled in the same semester.

PROGRAM:Secondary Education (Latin, 134 credits) Dept. and No. Descriptive Title of Course Credits

	Cicuita			
		FRESHMAN	FALL	SPRING
MAJOR	EDUC 121	Foundations of Education		3
MAJOR	EDUC 180	Field Experience I		1
COGNATE	Latin 211-212	Inter, Latin I,II	3	3
GEAREAI	Elective	Elective		3
GEAREAII	Psych. 110	Fund. of Psychology		3
GE AREA III	Engl. 107	Composition	3	
GEAREAIII	Comm. 100	Public Speaking		3
GEAREAIV	Elective	Elective	3	
	T/RS 121-122	Theology I, II	3	3
PHYS EDUC	Ph. Ed.	Physical Education	1	1
			16	17
		SOPHOMORE		
MAJOR	EDUC 222	Educational Psychology	3	
MAJOR	EDUC 280 *	Field Experience II		1
COGNATE	Electives	Latin Electives	6	6
GEAREAI	Elective	Elective	3	
GEAREAII	Psych. 221	Childhood & Adolescence		3
GE AREA III	Elective	Elective		3
GEAREA IV	Elective	Elective	3	
GE AREA V	Phil. 120	Intro. to Philosophy		3

^{* *} Fall/Spring courses may be reversed at the discretion of the Director of Secondary Education

GEFREE PHYS EDUC	Elective Ph. Ed.	Elective Physical Education	3 	<u>1</u> 17
			10	17
		JUNIOR		
MAJOR	EDUC 313	General Methods and Plannin	g 3	
MAJOR	EDUC 314	Specific Subject Methods	-	3
MAJOR	EDUC 340	Reading Sec. School		3
MAJOR	EDUC 380 *	Field Experience III	1	
COGNATE	Electives	Latin Electives	6	3
COGNATE	Elective	Related Elective		3 3
GEAREAU	Soc. 234	Cultural Anthropology		3
GEAREA V	ED/P 306	Educ. Philosophy	2	3
GEAREAV GEFREE	Phil. 210 Elective	Ethics Elective	3 3	
PHYS EDUC	Ph. Ed.	Physical Education	ა 1	
TITIO EDOC	Til. Ed.	Trysical Eddcation	<u>I</u> _	
		_	17	18
		SENIOR * *		
MAJOR	EDUC 475 *	Classroom Management for S	Sec.Educ.	3
MAJOR	EDUC 476 *	Student Teaching PlanSec. I		
MAJOR	EDUC 477 *	Student Teaching InstrSec. I		3
MAJOR	EDUC 478 *	Student Teaching MgmtSec.		
MAJOR	EDUC 479 *	Student Teaching Pro. DevS	ec. Ed.	3
COGNATE	Elective	Latin Elective	_	3
COGNATE	Elective	Related Elective	3	
GEAREAL	Elective	Elective	3	
GEAREAU	Elective	Elective	3 3 3 3 3	
GEAREA V GEFREE	Elective Elective	Elective	ა ე	
GEFREE	Elective	Elective	<u>ა</u> 18	13

^{*} Placement requires application and departmental approval; these courses must be scheduled in the same semester.

PROGRAM:Secondary Education (Math, 139 credits) Dept. and No. Descriptive Title of Course

	Credits			
		FRESHMAN	FALL	SPRING
MAJOR	EDUC 121	Foundations of Education		3
MAJOR	EDUC 180	Field Experience I		1
COGNATE	Math. 103	Precalculus *	4	
COGNATE	Math. 114	Analysis I		4
COGNATE	Math. 142	Discrete Str.	4	
GEAREA II	Psych. 110	Fund. of Psychology		3
GE AREA III	Engl. 107	Composition	3	
GEAREAIII	Comm. 100	Public Speaking		3
GEAREAIV	Elective	Elective		3
GEAREAV	Phil. 120	Intro. to Philosophy	3	
GE AREA V		Theology I		3
PHYS EDUC	Ph. Ed.	Physical Education	1	1
			18	18
		SOPHOMORE		
MAJOR	EDUC 222	Educational Psychology	3	
MAJOR	EDUC 280 * *	Field Experience II		1
COGNATE	Math. 221-222	Analysis II, III	4	4
COGNATE	Cmps. 134	Computer Science I	3	
GEAREAII	Elective	Psych. Elective		3
College Source®	by Career Guidance Foundation	244		

^{* *} Fall/Spring courses may be reversed at the discretion of the Director of Secondary Education

GEAREAII GE AREA IV GEAREA V GEFREE PHYS EDUC	T/RS 122 Elective	Elective Electives Theology II Elective Physical Education	3 3 1 17	3 3 3 1 18
MAJOR MAJOR MAJOR MAJOR MAJOR	EDUC 313 EDUC 314 EDUC 340 EDUC 380 * * EDUC 312	JUNIOR General Methods and Planning Specific Subject Methods Reading Sec. School Field Experience III Sec. Math. Curr.	3 1 3	3
COGNATE COGNATE	Math. 204 Math. 345 Math. 202	Sp. Topics Statistics Geometry History of Math	3	3
COGNATE GEAREA II GEAREAIV	Math. 351 Elective Electives	Linear Algebra Elective Electives	3	3 3 3
GEAREA V	Phil. 210	Ethics	<u>3</u> 19	18
MAJOR	EDUC 475 * *	SENIOR * * * Classroom Management for		
MAJOR	EDUC 476 * *	Sec. Educ.	4 O	3
MAJOR MAJOR MAJOR MAJOR	EDUC 476 EDUC 477 * * EDUC 478 * * EDUC 479 * *	Student Teaching PlanSec. Ed Student Teaching InstrSec. Ed Student Teaching MgmtSec. Ed Student Teaching Pro.	d.	3
COGNATE COGNATE GEAREAIII GEAREAIV GEAREA V	Math. 448 Elective Elective Elective ED/P 306	DevSec. Ed. Modern Algebra Related Elective Elective Elective Philosophy of Education	3 3 3 3	3 3
GEAREAV	Elective	Elective	<u>3</u> 18	13
				.0

^{*} An upper division math course may be substituted for Math. 103, based upon the performance on the math placement test

PROGRAM: Secondary Education (Modern Language, 134 credits) Dept. and No. Descriptive Title of Course

	Credits			
		FRESHMAN	FALL	SPRING
MAJOR	EDUC 121	Foundations of Education		3
MAJOR	EDUC 180	Field Experience I		1
COGNATE	MLANG 311-312 *	Adv. CompConv. I, II	3	3
GEAREAI	Elective	Elective		3
GEAREA II	Psych. 110	Fund. of Psychology		3
GE AREA III	Engl. 107	Composition	3	
GEAREAIII	Comm. 100	Public Speaking		3
GEAREAIV	Elective	Elective	3	
GE AREA V	T/RS 121-122	Theology I, II	3	3
PHYS EDUC	Ph. Ed.	Physical Education	1	1
		-	16	17

^{* *} Placement requires application and departmental approval; hese courses must be scheduled in the same semester.

^{* * *} Fall/Spring courses may be reversed at the discretion of the Director of Secondary Education

MAJOR MAJOR COGNATE COGNATE GEAREAII GEAREAIII GEAREAIV GEAREA V GEFREE PHYS EDUC	Elective Phil. 120 Elective	SOPHOMORE Educational Psychology Field Experience II Stylistics I, II Modern Language Elective Childhood & Adolescence Elective Elective Intro. to Philosophy Elective Physical Education	3 3 3 3 3	1 3 3 3 3 3 1
MAJOR MAJOR MAJOR MAJOR COGNATE COGNATE GEAREA II GEAREAV PHYS EDUC	EDUC 313 EDUC 314 EDUC 340 EDUC 380 * * Electives Electives Soc. 234 Electives Ph. Ed.	JUNIOR General Methods and Planning Specific Subject Methods Reading Sec. School Field Experience III Modern Language Related Electives Cultural Anthropology Electives Physical Education	3 1 6 3 3 1	3 3 3 3 3
MAJOR	EDUC 475 * *	SENIOR * * * Classroom Management for	17	
MAJOR	EDUC 476 * *	Sec. Educ. Student Teaching PlanSec. Ed	1.0	3
MAJOR MAJOR MAJOR	EDUC 476 EDUC 477 * * EDUC 478 * *	Student Teaching InstrSec. Ed Student Teaching InstrSec. Ed Student Teaching MgmtSec. E	l.	3
MAJOR	EDUC 479 * *	Student Teaching Pro. DevSec		3
COGNATE COGNATE	Elective Elective	Related Elective	2	3
GEAREAI	Elective	Modern Language Elective	3 3	
GEAREAII	Elective	Elective	3	
GEAREA V	ED/P 306	Educational Philosophy	3	
GEAREAV	Elective	Elective	3	
			18	13

^{*} Spanish, French or German should be selected as a specialization within Modern Language (MLANG).

PROGRAM: Secondary Education (Physics, 143 credits) Dept. and No. Descriptive Title of Course

	Credits			
		FRESHMAN	FALL	SPRING
MAJOR	EDUC 121	Foundations of Education		3
MAJOR	EDUC 180	Field Experience I		1
COGNATE	Phys. 140-141	Elements of Physics I, II	4	4
COGNATE	Math 114	Analysis I	4	
COGNATE	Math 221	Analysis II		4
GE AREA III	Engl. 107	Composition	3	
GEAREAIII	Comm. 100	Public Speaking		3
GEAREAIV	Elective	Elective		3
GE AREA V	T/RS 121-122	Theology I, II	3	3

^{* *} Placement requires application and departmental approval; these courses must be scheduled in the same semester.

^{* * *} Fall/Spring courses may be reversed at the discretion of the Director of Secondary Education

PHYS EDUC	Ph. Ed.	Physical Education	1 18	<u>1</u> 19
			10	19
MAJOR MAJOR	EDUC 222 EDUC 280 *	SOPHOMORE Educational Psychology Field Experience II	3	1
COGNATE	Math. 222	Analysis III	4	ı
COGNATE	Phys. 270	Modern Physics	4	
COGNATE	Phys. 350	Applied Engin/Math Physics	7	3
COGNATE	Elective	Physics Elective		3
COGNATE	Biol. 101	Gen. Biol. Sci.		3
GEAREAII	Psych. 110	Fundamentals of Psychology	3	3
GE AREA II	Psych. 221	Childhood and Adolescence	3	3
GEAREAIV	Electives	Electives	3	3
GEAREA V	Phil. 120	Intro. to Philosophy	O	3
PHYS EDUC		Physical Education	1	O
11110 2000	111. 24.	i nyolodi Eddodilon	<u> </u>	
			18	19
		JUNIOR		
MAJOR	EDUC 313	General Methods and Planning	3	
MAJOR	EDUC 314	Specific Subject Methods	_	3
MAJOR	EDUC 340	Reading Sec. School		3
MAJOR	EDUC 380 *	Field Experience III	1	
COGNATE	Phys. 102	Earth Science	3	
COGNATE	Phys. 473	Optics	3	
COGNATE	Chem. 100	Elements Chemistry		3
COGNATE	Elective	Physics		3
GEAREA II	Elective	Elective	3	
GEAREAIV	Electives	Electives	3	3
GEAREA V	Phil. 210	Ethics	3	
GEAREAV	Phil. 431	Phil. of Science		3
PHYS EDUC	Ph. Ed.	Physical Education		<u>1</u>
			19	1 9
		SENIOR * *		
MAJOR	EDUC 475 *	Classroom Management for		
		Sec. Educ.		3
MAJOR	EDUC 476 *	Student Teaching PlanSec.Ed	l. 2	
MAJOR	EDUC 477 *	Student Teaching InstrSec.Ed	l.	3
MAJOR	EDUC 478 *	Student Teaching MgmtSec.E	d.2	
MAJOR	EDUC 479 *	Student Teaching Pro.		
		DevSec.Ed.		3
COGNATE	Phys. 447	Electromagnetics		3
COGNATE	Elective	Physics	3	
GEAREAII	Elective	Elective	3	
GEAREAIII	Elective	Elective	3 3	
GEAREA IV	Elective	Elective		
GEAREAV	Phil 432	Philosophy of Technology	<u>3</u>	
			18	13

^{*} Placement requires application and departmental approval; these courses must be scheduled in the same semester.

PROGRAM: Secondary Education (Social Studies, 134 credits) Dept. and No. Descriptive Title of Course

•	Credits	·		
		FRESHMAN	FALL	SPRING
MAJOR	EDUC 121	Foundations of Education		3
MAJOR	EDUC 180	Field Experience I		1
COGNATE	Hist. 110-111	U.S. History I, II	3	3

^{* *} Fall/Spring courses may be reversed at the discretion of the Director of Secondary Education

COGNATE	PS 130-131	Am. Nat. Government I, II	3	3
GEAREAI	Elective	Elective	3	
GEAREA II	Psych. 110	Fund. of Psychology		3
GE AREA III	Engl. 107	Composition	3	
GEAREAIII	Comm. 100	Public Speaking		3
GE AREA V	T/RS 121	Theology I		3
PHYS EDUC	Ph. Ed.	Physical Education	11	<u> </u>
			16	17
		SOPHOMORE		
MAJOR	EDUC 222	Educational Psychology	3	
MAJOR	EDUC 280 *	Field Experience II		1
COGNATE	Geog. 134	World Reg. Geography	3	
COGNATE	PS111	Intro. to Pub. Policy		3
GEAREAI	Elective	Elective		3
GEAREAII	Soc. 110	Prin. of Sociology	3	
GE AREA III		Elective		3
GEAREAIV	Hist. 120-121	Europe I, II	3	3
GEAREAV	Phil. 120	Intro. to Philosophy	3	_
GE AREA V	T/RS 121	Theology II		3
PHYS EDUC	Ph. Ed.	Physical Education	1	1
			16	17
		unuon.		
MALOD	EDUC 242	JUNIOR	· 0	
MAJOR	EDUC 313	General Methods and Plann	ing 3	0
MAJOR	EDUC 314	Specific Subject Methods		3
MAJOR	EDUC 340	Reading Sec. School	4	3
MAJOR	EDUC 380 *	Field Experience III	1	
GEFREE	Eco. 410	Economics for Education Ma	•	
COGNATE	Elective	Non-Western History	3	2
COGNATE	Soc. 234 H/PS 214	Cultural Anthropology		3
COGNATE COGNATE		World Politics	2	3
GEAREAII	Elective Soc. 112	Minority Literature Social Problems	3	
GEAREAII GEAREA II	Psych. 220		3 3	
GEAREAV	ED/P 306	Social Psychology	3	2
GE FREE	Elective	Educ. Philosophy Elective		3 3
GEFREE	Liective	Liective	19	<u></u>
		SENIOR * *	13	10
MAJOR	EDUC 475 *	Classroom Management for		
1017.001.	2000 470	Sec. Educ.		3
MAJOR	EDUC 476 *	Student Teaching PlanSec	Fd 2	· ·
MAJOR	EDUC 477 *	Student Teaching InstrSec.		3
MAJOR	EDUC 478 *	Student Teaching MgmtSe		· ·
MAJOR	EDUC 479 *	Student Teaching	··	
	25000	Pro. DevSec.Ed.		3
GEAREAI	Elective	Elective		3
COGNATE	H/PS	Electives	6	J
GEAREAV	Phil. 210	Ethics	3	
GEAREAV	Elective	Elective	3	
GEFREE	Elective	Elective	3	
			18	13

Placement requires application and departmental approval; these courses must be scheduled in the same semester.

3 credits

EDUC. 101 Dr. Adams Fundamentals of Adult Development and Experiential Learning

Fall/Spring courses may be reversed at the discretion of the Director of Secondary Education

The course provides learners with a basic knowledge of adult learning and development theories as a framework for understanding themselves as learners. Through self-assessment of their learning styles, personality factors, value systems, interests, and previously acquired learning, they will gain an understanding of the factors which facilitate and/or inhibit their pursuit of higher learning. This course also assists learners in developing a portfolio of their learning experiences to be reviewed for college. Dexter Hanley students only: permission of instructor required

EDUC. 110 Prof. Cannon

Values Development

3 credits

A course designed to acquaint the student with theories relating to value development: what values are, and how they are formed. The affective process, value systems, activities for value development suitable for use by parents, teachers and others involved in human relations will be covered. Open to all majors. (GE Area II)

EDUC. 113 Staff

Reading-Research

3 credits

A course designed to increase a student's proficiency in reading and research. The following skill areas will be covered: comprehension, vocabulary, expression, critical analysis, library and study skills. Students will be required to develop minimum computer competencies. Lecture and laboratory approaches are utilized with the emphasis on individualized instruction. (GE Area III)

EDUC. 121 Staff

The Foundations of Education

3 credits

This course is designed to examine the characteristics of the public school system in the United Slates, the role of education in contemporary society, and current issues related to education. (GE Area II)

EDUC. 140 Staff

Early Childhood Education

3 credits

The purpose of this course is to give students an introductory overview of the theory, research and practice of early childhood education. Consideration will be given to the educational process from the fetal stages on through the first three years of life as well as the early years of schooling

EDUC. 180 Staff
Field Experience I 1 credit

(Pre- or Corequisite: EDUC 121) This course is designed to prepare for field experience requirements in EDUC 280 and 380. It focuses on the development of observation and reflective skills through case studies, vignettes and video situations

EDUC 222 Staff

Educational Psychology

3 credits

This course is designed to examine the psychological basis of teaching strategies, classroom environment, learning, motivation, reinforcement, and evaluation. (GE Area II)

EDUC 241 Staff

Foundations of Reading Instruction

3 credits

A basic course in reading. It provides an introduction to reading instruction and reading programs. The reading process as it relates to language acquisition and learning to read will be investigated. The readiness, reading skills, techniques and methods which are essential for effective reading will be examined.

EDUC 242 Dr. DiGiaimo

Mathematics Methods for Elementary Teaching

3 credits

The course is designed to provide the elementary education major with planning and instructional strategies appropriate for use in the mathematics area of elementary curriculum. An analysis of content will be made in light of the needs of the elementary student and society

EDUC 280 Staff

Field Experience II

1 credit

(Prerequisites: EDUC 121 and EDUC 180; Pre- or Corequisite: EDUC 222) The course is closely associated with Educ. 121, 222, and 180. Projects will be assigned to be carried out in basic education schools and other agencies through observation, tutoring, and ora/written reports. Application is required prior to registration

ED/P 306 Staff

Philosophy of Education

3 credits

(Formerly ED/P 106)An examination of representative modern systemic philosophies of education with a critical analysis of the answers that each system of philosophy provides to the important questions concerning the nature of knowledge, value, man, and society. (Recommended as GE Area V elective for education majors.)

EDUC 310 Staff

Special Topics in Education

1-3 credits

A series of courses dealing with specific educational issues, theories, ideologies, skills, methods, or other designated topics for individual or group study. Course is offered on student need. (GE Area dependent on topic.)

EDUC. 312 Staff

The Secondary School Mathematics Curriculum

3 credits

(Corequisite: EDUC 313) This course examines the strategies and content of mathematics curricula in the secondary school and attempts to compare them to major contemporary reform efforts. The course includes a review of secondary school (Junior and Senior High School) mathematics.

EDUC. 313 Staff

General Methods and Planning

3 credits

(Prerequisite: Education 222; Corequisite: EDUC 380) Methodology for setting direction in the classroom, creating a learning situation, developing the content, reinforcing and evaluating will be covered. Students will be involved with developing plans for teaching. (GE Area III)

EDUC. 314 Staff

Specific Subject Methods

3 credits

(Prerequisite: EDUC 313) Utilizing knowledge of planning and teaching, students will be guided in the analysis of specific content and techniques for teaching that content. They will demonstrate their ability to carry out plans in "micro" teaching experiences. (GE Area III)

EDUC 340 Staff

Reading in the Secondary School

3 credits

This course is the study of the reading process with emphasis placed on understanding and skills needed by secondary school students in their subject fields

EDUC 341 Prof. Cannon

The Education of the Exceptional Child

3 credits

A general view of the field; historical background-both philosophical and legislative. A survey of physical, mental and emotional handicaps and of giftedness along with remedial and preventive practices with a look at the future.

EDUC 342 Dr. Wiley

Educational Media and Technology

A course in which students are expected to produce media appropriate for classroom use. The student is also expected to exhibit competency in the use of common education media equipment and the uses of computers. Students will also be introduced to modern and future forms of media technology appropriate for the classroom teacher.

EDUC 343 Dr. Fusaro

Evaluation and Measurement

3 credits

This course is intended to acquaint prospective teachers with the various facets of test interpretation and test construction. Standardized achievement, diagnostic, and aptitude tests will be covered, along with teacher-made objective and essay tests. Emphasis will be placed on constructing valid and reliable tests by the teacher. The use and misuse of standardized tests and teacher-made tests will be discussed

EDUC. 344 Dr. Wiley

Science Methods for Elementary Teaching

3credits

This course is designed to provide the elementary education major with planning and instructional strategies appropriate for use in the science area of the elementary curriculum. An analysis of

content and methodologies will be made in light of the needs of the elementary school, the elementary student and society.

EDUC. 345 Staff

Language Arts Methods

3 credits

The course is designed to provide the elementary major with a knowledge of the process of a child's language acquisition. Planning for the instructional strategies used in teaching ora written composition, grammar, listening, speaking, spelling and handwriting skills are examined

EDUC. 346 Staff

Social Studies Methods

3 credits

The course is designed to provide the elementary major with a knowledge of the childs needs in the social sciences and the humanities. Planning for the instructional strategies used in teaching history, geography, and economics are examined

EDUC. 347 Staff

Instructional Strategies for Content Area Reading

3 credits

The course is designed to introduce students to procedures to teach functional reading ski11s in the elementary schools. Emphasis will be placed on the specialized vocabularies, concepts and study skills which are considered necessary, for the comprehension of reading materials pertinent to content area subjects. Various resources and devices will be examined

EDUC. 380 Staff field Experience III 1 credit

(Prerequisite: EDUC 280) This course will be closely associated with the methods courses. An emphasis is placed on studying teaching techniques and with involvement in teacher activities in basic education schools. Application is required prior to registration. Secondary section offered in the fall; elementary section in the spring

EDUC, 440 Prof. DiGiaimo

* Elementary Classroom Management and Discipline

3 credits

In-depth study of the rationale, theories, and techniques for creating a situation where learning can take place and for handling specific individual and group behavior problems in productive ways

EDUC. 441 Staff

* Planning in Elementary Student Teaching

2 credits

Preparation of actual teaching plans during elementary student teaching

EDUC. 442 Staff

* Instruction in Elementary Student Teaching

3 credits

Involvement in implementing methods and techniques. Elementary school student teaching on a full-time basis under the supervision of classroom teachers and University supervisors

EDUC. 443 Staff

* Managing Elementary Classrooms in Student Teaching

2 credits

Involvement in the management of learning situations during elementary student teaching

EDUC. 444 Staff

* Professional Growth in Elementary Student Teaching

3 credits

The demonstration of professional growth during student teaching as evidenced by professional behavior and skills, a commitment to improvement, and ability to relate to others. This will include attendance and participation in a weekly seminar to analyze and discuss professional considerations and student teaching problems

EDUC. 475 Staff

** Secondary Classroom Management and Discipline

3 credits

In-depth study of the rationale, theories, and techniques for creating a situation where learning can take place and for handling specific individual and group behavior problems in productive ways

EDUC. 476 Staff

** Planning in Secondary Student Teaching

2 credits

Preparation of actual teaching plans during secondary student teaching

EDUC. 477 Staff

** Instruction in Secondary Student Teaching

3 credits

Involvement in implementing methods and techniques. Secondary student teaching on a full time basis under the supervision of classroom teachers and University supervisors

EDUC. 478 Staff

** Managing Classrooms in Secondary Student Teaching 2 credits
Involvement in the management of learning situations during secondary student teaching

EDUC. 479 Staff

** Professional Growth in Secondary Student Teaching

3 credits

The demonstration of professional growth during student teaching as evidenced by professional behavior and skills, and a commitment to improvement, and ability to relate to others. This will include attendance and participation in a weekly seminar to analyze and discuss professional considerations and student teaching problems

- * These courses must be taken together (Elementary Education majors)
- ** These courses must be taken together (Secondary Education majors)

The Education Department ordinarily does not permit students to take courses concurrently with the student teaching sequence. Deviations from this policy must have the permission of the appropriate Program Director, the Department Chairperson, and the Dean. Student teaching requires application, which is due to the appropriate advisor and approved by the program director, prior to registration for the student teaching semester

HEALTH ADMINISTRATION AND HUMAN RESOURCES

DR. STOUT, Chairperson
DR.O"NEILL, Director of Health Administration

The Health Administration curriculum is designed to develop in students the values, knowledge, and skills necessary to enter the growing field of health administration. The sequence of courses includes a significant integration of the fields of health and business administration and includes a minor in business administration. The curriculum is interdisciplinary and provides the student with a broad base of knowledge for securing entry-level positions with public and private agencies in positions concerned with the administration of preventive and remedial health, welfare, and rehabilitative services. A three-credit, 138-hour internship is required with a second three-credit internship available as an elective. In order to graduate, Health Administration majors must maintain a 2.5 GPA in major courses and a full-time student must complete ten hours of community service during each semester registered as a Health Administration major. Students in Dexter Hanley College must accumulate a minimum of 80 hours by graduation. The curriculum also provides a solid foundation for future graduate level education in various administrative disciplines such as human resources administration, public health, health and hospital administration, health planning, public administration, and long-term care administration

Dept. and No.		Descriptive Title of Course		
Credits		-		
		FRESHMAN	FALL	SPRING
MAJOR	HADM 111	Introduction to Health Admi	nistration	3
MAJOR	HADM 112	Health Systems		3
GE AREA I	Elective	Elective		3
GE AREA III	CMPS 104	Computing for Business and	d Social S	
GE AREA III	Communications *	Communications *	3	3
GE AREA IV	Humanities	Electives	3	3
GE AREA V	Phil. 120-T/RS 121	Introduction to		
		Philosophy-Theology I	3	3
PHYS EDUC	Ph. Ed.	Physical Education	11	1
			16	16
		SOPHOMORE		
MAJOR	HADM 293	Research in Health Adminis	stration	
	3			
MAJOR	HADM Elective	HADM Elective		3
COGNATE	Mgt. 251-Econ. 210	Legal Environment of Bus	Essentials	
		of Economic Theory	3	3
COGNATE	Electives	Electives	3	3
GE AREA I	Acc. 253-254	Financial Accounting-Manag		
		Accounting	3	3
GE AREA V		Ethics-Theology II	3	3
PHYS EDUC	Ph. Ed.	Physical Education	1	<u>1</u>
			16	16
		JUNIOR		
MAJOR	HADM 340	Career Seminar	1	
MAJOR	HADM Elective	Elective	3	
MAJOR	HADM 311	Resource Development	3	
MAJOR	HADM 311	Health Finance	3	3
MAJOR	HADM 313	Health Administration		3
MAJOR	HADM 380	Internship in Health		3
WINGOIN	11/12W 300	Administration		3
COGNATE	Mgt. 351-Mgt. 352	Prin. of Management I-II	3	3
COGNATE	Mkt. 351	Intro. to Marketing	J	3
GE AREA IV		Elective	3	O
GE AREA V	Phil. 211-212 #	Medical Ethics-Business Et	_	3
···-···			16	18
				. •

		SENIOR		
MAJOR	HADM 441	Issues in Health Administration	3	
MAJOR	HADM Electives	Electives	3	3
COGNATE	Electives	Electives	3	3
GE AREA IV	Humanities	Electives	6	3
GE FREE	Electives	Electives	3	6
			18	15

TOTAL: 131 credits

Recommended courses.

MINOR. A minor in Health Administration requires 18 credits distributed as follows: HADM 111, 112, 312, and 313, and any other two HADM courses

^{*} Students will take COMM. 100 and ENGL. 107 unless exempted by the University

HEALTH ADMINISTRATION

SERV 192. 292, 392, 492

Staff

Service Learning

0 credits

This requirement will provide students an opportunity to go out into the surrounding community to work with agencies/groups and individuals in need of service. The students will be expected to reflect upon their individual experiences as they relate to their academic work. These reflections are to be shared with the Director of Collegiate Volunteers. The Service-Learning hours will be logged, checked and noted on a student's transcript. Serv 292 requires prior completion of Serv 192, 292 for 392 and 392 for 492

HADM 111 Staff

Introduction to Health Administration

3 credits

An initial overview of health care in the United States and the professions involved. Emphasis is placed on health care providers and administrators

HADM 112 Staff

Health Systems

3 credits

The nature and organization of health care in the United States. Factors affecting the delivery of such services are identified to provide an understanding of the evolution and dynamics of health care systems as well as prospects for future development

HADM 212 Staff

Health Administration Law

3 credits

The legal and regulatory environment of health care and the administration of health services

HADM 213 Staff

Supervising Health Personnel

3 credits

Principles and practices of direct supervision of personnel including motivation, leadership, and various personnel functions in health care settings

HADM 284 Staff

Special Topics

3 credits

Selected topics of current interest in health administration are offered on a variable basis

HADM 293 Staff

Research in Health Administration

3 credits

(Majors only) Principles and processes of research in health administration including literature review, research design, data collection techniques, statistical analysis, and professional writing in generating new knowledge and in using research in administration

HADM 311 Staff

Resource Development

3 credits

Proposal writing for program planning and or soliciting funds from public and private sources as well as the role of public relations and development in the creation of organizational resources

HADM 312 Staff

Health Finance

3 credits

(Prerequisite: Acc. 253 and 254) The costs of health care in society with emphasis on financial concepts and reimbursement mechanisms for health providers

HADM 313 Staff

Health Administration

3 credits

Role and functions of the supervisory and administrative structure, including Boards of Directors, in health agencies, systems, and organizations

HADM 314 Staff

Health Care Policies

3 credits

Background, implementation, purpose, and effects of important health care policies are studied with implications for health care providers. The Health policy-making process is examined, including involvement of key health care professionals

HADM 315 Staff

Cultural Diversity and Health Administration

3 credits

Focuses on the effects of cultural diversity on healthcare administration. Emphasis is placed on the importance of assessing and addressing the healthcare needs of various cultural groups within a given healthcare service area.

HADM 316 Staff

Health Care Marketing

3 credits

(Formerly HADM211)Marketing concepts, strategies, and techniques are applied to health care, with consideration of the unique aspects of health care services and organizations

HADM 340 Staff

Career Seminar

1 credit

(Majors only) Seminar in which students appraise their present status and develop specific written educational and career plans for future coursework, career entry, andor graduate school.

HADM 380 Staff

Internship in Health Administration

3 credits

(Prerequisites: HADM340, 18 HADM credits or approval of Program Director) The internship is a significant clinical and educational experience that ends the third year of academic experience and involves a supervised practical experience in a community agencyorganization providing health services. It provides both practical experience and an opportunity to integrate knowledge into a working professional philosophy. Students will spend a minimum of 120 hours in the field placement and a minimum of 18 hours in on-campus staffing sessions. Offered only during the Spring semester; prerequisite for HADM 481. Graded S or U

HADM 411 Staff

Long Term Care Administration

3 credits

Designed to introduce the student to Long Term Care (LTC) facility administration. Emphasis is placed on the differences between acute and long-term levels of care, types of LTC facilities, and special concerns involving the LTC resident

HADM 441 Staff

Issues in Health Care Administration

3 credits

(Senior level, majors only) Current issues in health care administration are explained and discussed. As capstone projects, students integrate prior learning and original thinking to resolve selected issues.

HADM 481 Staff

Internship in Health Administration

3 credits

(Prerequisite: HADM 380) This second internship in Health Administration involves 150 hours in a community agency or organization providing health services. This internship may be taken during any regular academic term and may be completed outside the immediate University region. Approval by Program Director is required. Graded S or U

NURSING

DR. HARRINGTON, Chairperson

The purpose of the Baccalaureate nursing program is the preparation of qualified persons for entry level practice of professional nursing in hospitals and community health settings. The program also provides the academic foundations for advanced study in nursing

High school graduates are admitted as freshmen into the program which leads to a Bachelor of Science degree with a major in nursing. Total class enrollment is limited in consideration of educational and clinical resources. The curriculum can be completed in eight regular semesters of full-time study or four academic years. Students are encouraged to enroll in general education courses during January intersession and summer sessions to reduce the fall and spring term schedules. Transfer students will be considered on a space available basis

The nursing program has the full approval of the Pennsylvania State Board of Nursing. The curriculum is based on a planned progression of courses so as to build upon and develop knowledge and skills at levels of increasing competency. Therefore, all required courses must be taken in sequence. For progression through the Nursing program, a minimum average grade of C must be attained in the prerequisite Natural Science courses (BIOL 110-111, CHEM 110-111). A minimum grade of C must be attained in the prerequisite Natural Science courses BIOL 210, MATH 204, and in each Nursing course. Students who score less than a 10 on the Math Placement exam during Freshman Orientation must seek individual advising through the Nursing Department.

Final Grade For Nursing Courses With Concurrent Clinical Laboratory: The clinical laboratory component of a nursing course shall be on the basis of S, Satisfactory (Pass), or U, Unsatisfactory (Fail). If the student obtains an S in the clinical laboratory, the final grade in the course, which is entered on the permanent transcript, shall be the grade assigned for the lecture portion of the course. If the student does not obtain an S in the clinical laboratory, the final grade in the course, which is entered on the permanentranscript, shall be an F, no matter what grade was assigned for the lecture portion of the course. Both lecture and clinical components must be repeated if a grade of D+, D or F is obtained in a Nursing course

Prior to the junior and senior year, students enrolled in the nursing program must present a certificate as evidence of having completed the Cardiopulmonary Resuscitation Basic Life Support course or Modular course offered by the American Red Cross or the American Heart Association

In addition to the general University tuition and fees listed in the Student Expenses section, students majoring in nursing assume the responsibility for the following: uniforms and other required clinical accessories, yearly physical examinations, entrance eye and dental examinations, immunizations, comprehensive/achievement tests, liability insurance and any travel expenses incurred. Students must also provide their own transportation to and from agencies utilized for clinical laboratories, and have access to a car during their Community Health clinical experiences in the senior year. Senior status in the Nursing Program is defined as completion of at least 100 credits including cognate and prerequisite courses for NURS 480 and NURS 481

Applicants and students should be aware that Pennsylvania law prohibits licensure of individuals convicted of felonies related to controlled substance and may prohibit licensure if there is a conviction for any felonious act. For details, see the Admissions Brochure and the Student Handbook of the Department of Nursing

Upon graduation the students will be eligible for admission to examination for the registered nurse licensure. The Department of Nursing is accredited by the National League for Nursing

NURS. 100 Family Health Dr. Garrett, Prof. Cecchini, Staff

3 credits

(For non-nursing majors.) Concepts and principles related to the promotion and maintenance of optimal family health. Considers factors pertinent to health needs and health practices throughout the life cycle. (GE AREA I, unless Nurs. 111 or Nurs. 112 used in Area I.)

NURS. 111 Dr. Farrell Women's Health 3 credits

(Open to all students) Focus on physiologic, emotional, social, economic, and historic issues affecting women's health. Discussion of strategies which will assist women to take an active role as health care consumers. Three hours lecture. (GE Area I, unless Nurs. 112 or Nurs. 100 used in GE Area I.)

NURS. 112 Staff

Sexual Development Through the Life Span

3 credits

(Open to all students) impact on sexual roles and expression, and health and social issues as they relate to sexual function. Emphasis is placed on developing sexual awareness of the student. Three hours lecture. (GE Area I, unless Nurs. 111 or Nurs. 100 used in GE Area I.)

NURS. 140 Drs. Bailey, Carpenter

Introduction to Nursing Concepts

3 credits

An exploration of the core concepts of the client, health, nursing and health patterns. Historical, philosophical and social development of nursing and the role of the professional nurse presented. Understanding of health and health continuum in the broader perspective of the human person, the physiological, psychological, developmental, and socio-cultural modes. Introduction of the nursing process as it relates to the development of cognitive, interpersonal, and psychomotor skills to assist clients to attain and maintain an optimal level of health. 3 hours lecture

NURS. 213 Dr. Muscari

Child and Adolescent Health Promotion

3 credits

(Recommended Prerequisite: PSYC 221; Open to all students) Focus on the professionals role as advocate, care giver and/or teacher in the promotion of health for children and adolescents, directly through health maintenance and prevention and indirectly through health care policy

NURSING

	Dept. and No.	Descriptive Title of Course		Credits
	•	FRESHMAN FA	ALL	SPRING
COGNATE	Chem. 110-111	Introductory Chemistry	4	4
COGNATE	Biol. 110-111	Structure & Function		4
MALOD	Nives 440	of the Human Body	4	4
MAJOR	Nurs. 140	Intro. to Nursing Concepts		3 3
GE AREA II GE AREA IV	Psych. 110 Humanities	Fundamentals of Psychology* Electives	_	3
GE AREA V		Introduction to Philosophy	6 3	
GE AREA V		Theology I	3	3
PHYS EDUC		Physical Education	1	<u> </u>
TITIO LDOC	Til. Ed.	Triysical Eddcation	18	18
_			10	10
		SOPHOMORE		
MAJOR	Nurs. 260	Physical Assessment Related	to	
		Health Patterns	3	
MAJOR	Nuts. 261	Nursing Related to		
		Health Patterns		3
COGNATE	Biol. 210	Intro. Medical Microbiology	3	
COGNATE	Math 204	Special Topics of Statistics		3
GE AREA II		Childhood and Adolescence*	3	
GE AREA II	Psych. 225	Abnormal Psychology*		3
GE AREA III	Communication	Electives (ENGL 107 -	_	_
OE ADEA 11/	11 92	Comm. 100)	3	3 3 3 1
GE AREA IV		Electives	3	3
-	Phil. 210-212	Ethics-Medical Ethics*	3	3
PHYS EDUC	Pn. Ed.	Physical Education	19	<u>1</u> 19
			19	19
		JUNIOR		
MAJOR	Nurs. 340-341	Clin. Pathophysiology I - II -		
		Related to Health Patterns	3	3

MAJOR	Nurs. 380	Nursing the Individual	8	
MAJOR	Nurs. 360-361	Pharmacology I - II	1	1
MAJOR	Nurs. 381	Nursing the Individual/Family		8
GE AREA IV	/ Humanities	Electives	3	3
GE AREA \	/ T/RS 122	Theology II		3
-			<u>18</u>	15
		SENIOR		

MAJOR	Nurs. 480	SENIOR Nursing the Individual/Family/		
		Community	8	
		(NOTE: RN"s take NURS 481 f	for 6 credits)	
MAJOR	Nurs. 440	Clinical Pathophysiology III -Re	elated to	
		Health Patterns	3	
MAJOR	Nurs. 493	Research in Nursing	3	
MAJOR	Nurs. 460	Pharmacology III	1	
MAJOR	Nurs. 482	Synthesis of Nursing Concepts	;	9
GE AREA V	T/RS-Phil.	Elective		3
GE FREE	FREE	Elective		3
			15	15

^{*} Departmental Recommendation

TOTAL: 137 credits

NURS. 241 Perspectives in Professional Nursing

Drs. Narsavage, Zalon

3 credits

(Prerequisites: Sophomore status in the Nursing Program. Registered Nurse students only.) Perspectives in professional nursing explores concepts incorporated in the philosophy, organizing framework and curriculum structures of the nursing program. Integration of the health patterns and nursing process in the delivery of professional nursing care is introduced. Pertinent issues impacting on the nursing profession are addressed

NURS. 242 Dr. Narsavage, Staff

Nursing Related to the Assessment of Health Patterns

3 credits

(Prerequisites: Sophomore Status, Nurs. 241, Registered Nurse Students Only.) Focus on the professional nurse's role as caregiver in assessing, diagnosing and planning interventions of adaptive health patterns in individuals. Application of the nursing process to well persons and to individuals and families with alterations in health patterns. Exploration of concepts for planning holistic health care. Two hours lecture, 3 hours laboratory

NURS. 260 Dr. Narsavage, Dr. Muscari

Physical Assessment Related to Health Patterns

3 credits

(Prerequisite: Biology 110-111; Sophomore status in nursing program) Development of beginning skill in the basic physical assessment techniques necessary for the promotion of optimal health as a care-giver. Focus on the professional nurse's role in assessing the physiological dimension of adaptive health patterns in individuals with a stable health status. 2 hours lecture and 3 hours laboratory.

NURS. 261 Nursing Related to Health Patterns

Dr. Narsavage, Prof. Fuller

3 credits

(Prerequisite: Chemistry 110-111, Nursing 140, Nursing 260; Sophomore status in the nursing program) Focus on the professional nurse's role in promoting the individual's health status utilizing developmental, physiological, psychological and sociocultural dimensions of adaptive health patterns. Development of beginning nursing skills and procedures. 2 hours lecture and 3 hours laboratory.

NURS. 310 Dr. Bailey

Understanding Transcultural Health Care

3 credits

This course will focus on exploring values, beliefs and lifestyles of diverse cultural groups in order to expose the student to multi-cultural concepts of health promotion and maintenance. (GE Free; open to all majors in the Health Care Field)

NURS. 311 Dr. Narsavage

Computer Applications in Nursing

3 credits

(Prerequisite: Sophomore status in Nursing Program, LPN or RN) Designed for nursing majors or nurses who wish to learn computer capabilities for nursing applications in ways that do not involve programming. Emphasis is on interactive computer experience as an introduction to disk-operating systems, and word processing, computer-assisted instruction, file management, database management system, care-planning, software evaluation and research access. (GE Free)

NURS. 312 Staff

Nursing the Older Adult

3 credits

(Prerequisite: Junior status in nursing program) Focus on the professional nursës role of caregiver, advocate and teacher in promoting and maintaining adaptive responses of the older adult experiencing alterations in health patterns. Emphasis placed on multidimensional assessment factors and interventions in meeting bio-psycho-social needs. (GE Free)

NURS. 340 Drs. Farrell, Harrington

Clinical Pathophysiology Related to Health Patterns I

3 credits

(Prerequisites: Chemistry 110-111, Biology 110-111, Biology 210, Nursing 261) Pathophysiology and Psychopathology related to self perception-self concept, sleep rest, and activity-exercise health patterns are explored and related to specific alterations in clients health status. 3 hours lecture.

NURS. 341 Drs. Carpenter, Farrell, Muscari

Clinical Pathophysiology Related to Health Patterns II

3 credits

(Prerequisite: Nurs. 340) Pathophysiology related to the nutritional-metabolic, sexuality-reproductive, and role relationship health patterns are explored and related to specific alterations in clients" health status. 3 hours lecture.

NURS. 360 Prof. Leri

Pharmacology I

1 credit

(Prerequisites: Chemistry 110-111, Biology 110-111, Biology 210) Specific drug groups related to alterations in self-perception - self-concept, sleep-rest, and activity exercise health patterns are addressed. Emphasis is placed on drug actions, side effects, dosages, and nursing responsibilities. 1 hour lecture.

NURS. 361 Prof. Leri

Pharmacology II

1 credit

(Prerequisite: Nursing 360) Specific drug groups related to alterations in the nutritional-metabolic, sexuality-reproductive, and role relationship health patterns are addressed. Emphasis is placed on drug actions, side effects, dosages, and nursing responsibilities. 1 hour lecture

NURS. 380 Drs. Farrell, Harrington, Staff

Nursing the Individual

8 credits

(Prerequisite: Nursing 261; Corequisites: Nursing 340 and Nursing 360) Focus on the professional nurse"s role as care-giver, advocate and teacher in restoring the physiological and psychosocial adaptive responses of the individual experiencing alterations in the health patterns of self perception-self concept, sleep-rest and activity exercise. Emphasis placed on the planning and implementation of the nursing process in meeting health needs. 3 hours lecture and 15 hours laboratory.

NURS. 381 Drs. Carpenter, Farrell,

Nursing the Individual/Family

8 credits

Muscari &Staff

(Prerequisite: Nursing 380; Corequisites: Nursing 341 and Nursing 361) Focus on the professional nurse"s role as caregiver, advocate and teacher in restoring adaptive responses of the individual and family experiencing alterations in health patterns of sexuality-reproductive, nutritional-metabolic, and role-relationships. Emphasis placed on the planning and implementation phases of the nursing process in meeting health needs. 3 hours lecture and 15 hours laboratory

NURS. 410 Dr. Zalon

Nursing Management

3 credits

Study of the management process in nursing settings with a focus on the planning, implementation and delivery of nursing care in complex organizations. Focus is on the collaborative role of nursing within the organization and the analysis and resolution of problems. 3 hours lecture. (GE Free)

NURS. 440

Drs. Hudacek, Muscari, Prof. Fuller

Clinical Pathophysiology Related to Health Patterns III

3 credits

(Prerequisite: Nursing 341) Pathophysiology related to alterations in elimination, cognitive-perceptual, coping-stress-tolerance and value-belief health patterns are explored and related to specific alterations in clients' health status. 3 hours lecture.

NURS. 460

Prof. Leri

Pharmacology III

1 credit

(Prerequisite: Nursing 361) Specific drug groups related to alterations in the elimination, cognitive-perceptual, coping-stress-tolerance, and value-belief health patterns are addressed. Emphasis is placed on drug actions, side effects, dosages, and nursing responsibilities. 1 hour lecture

NURS. 480

Drs. Hudacek, Narsavage, 8 credits

Nursing the Individual / Family/Community Prof. Fuller

(Prerequisite: Nursing 381; Corequisites: Nursing 440 and Nursing 460) Focus on the professional nurse"s role as care-giver, advocate and teacher in promoting and restoring adaptive responses of the individual, family and community experiencing alterations in the health patterns of elimination, cognitive-perceptional, coping-stress-tolerance and value-belief. Emphasis is placed on the planning and implementation phases of the nursing process in meeting health needs. 3 hours

NURS. 481 Community Nursing

lecture and 15 hours laboratory.

Dr. Narsavage, Staff

6 credits

(Prerequisites: Senior Status in the University and Nursing Program, successful completion of Validation Examinations. Pre- or co requisite: NURS 493. Registered Nurse Students only). Focus on the professional nurse's role as caregiver, advocate, and teacher in promoting and restoring adaptive responses of the individual, family and community experiencing alterations in health patterns. Emphasis is placed on the planning and implementation phases of the nursing process in meeting health needs of community clients. 2 hours lecture and 12 hours laboratory

NURS. 482 Synthesis of Nursing Concepts Drs. Zalon, Hudacek, 9 credits

Desmond. Staff

(Prerequisite: Nursing 480 or Nursing 481) Focus on the professional nurses role as leader/manager in promoting, restoring and maintaining adaptive responses in individuals experiencing complex alterations in health patterns. Continued use of the nursing process to implement and to evaluate nursing care of the individual, family, community and groups in collaboration with the nursing and interdisciplinary health teams. 3 hours lecture and 18 hours laboratory.

NURS. 493 Research in Nursing Drs. Bailey, Carpenter, Narsavage

3 credits

(Prerequisite: Senior status in the nursing program, Math 204). Introduction to and application of the principles and process of research in professional nursing practice. Study of research design, data collection technique, interpretation and critique of nursing research literature and reports and the development of the ability to become a discriminating consumer of nursing research. 3 hours lecture.

OCCUPATIONAL THERAPY

DR. KASAR, Chairperson

The Department of Occupational Therapy at the University of Scranton offers a four-year, Bachelor of Science Degree in Occupational Therapy. The Occupational Therapy Curriculum is based on a frame of reference that is developmental, humanistic, and holistic in nature, and which emphasizes optimal function throughout the life span. The program is integrated with a liberal arts and science foundation, and is designed to prepare strong, generalist, entry-level practitioners with the capacity for creative analysis and clinical reasoning

Admission to the program is open to first-time incoming freshmen. Applicants will be selected on a competitive basis, with emphasis placed on high school record, standardized test scores, extracurricular activities, and letters of recommendation. Transfer applicants will only be considered a space available basis, and will need to complete the full course of study. Observation and/or volunteer experience in Occupational Therapy settings is highly encouraged

The coursework is sequenced in a planned progression in order to build upon and develop knowledge and skills at increasing levels of complexity, competence, and integration. Therefore, all required courses must be completed in sequence. A minimum grade of C (2.00) must be attained in every cognate and occupational therapy course. In addition, students are required to complete ten hours of community service for every year registered as an Occupational Therapy major

Beginning in the third year, Level I Clinical courses are scheduled during the intersession and summer, immediately following the OT Practice course in that area. Upon completion of the fourth academic year, students must participate in two, full-time, Level II Internships, in the areas of Psychosocial Rehabilitation and Physical Rehabilitation. After the required clinical work is finished, a student may choose to participate in a Level IIInternship in a specialty area of practice. Students are responsible for their transportation and travel costs to and from assigned clinical and internship settings, and should expect to pay room and board expenses during the Level Ilexperiences

Upon graduation, following successful completion of all academic, clinical, and service requirements, students are eligible to sit for the national certification examination for Occupational Therapist Registered. (OTR)

Course Descriptions

SERV 192. 292, 392, 492

Staff

Service Learning

0 credits

This requirement will provide students an opportunity to go out into the surrounding community to work with agencies/groups and individuals in need of service. The students will be expected to reflect upon their individual experiences as they relate to their academic work. These reflections are to be shared with the Director of Collegiate Volunteers. The Service-Learning hours will be logged, checked and noted on a student's transcript. Serv 292 requires prior completion of Serv 192, 292 for 392 and 392 for 492

OT 140 Dr. Kasar

Introduction to Occupational Therapy

1 credit

An introduction to the profession of occupational therapy, including an overview of history, philosophical bases, standards and ethics, and current and future directions for practice. Clinical areas of focus and practice settings are presented with particular emphasis placed on the role of the occupational therapist. Majors only. One, two-hour seminar week.

OT 141 Dr. Kasar Occupational Therapy Theoretical Concepts 3 credits

A comprehensive review of occupational therapy theoretical frames of reference and models of practice, with emphasis on an analysis of their history, philosophical foundations, and applications to practice. The focus is on human occupation and adaptation, and its multicultural aspects. Three hours lecture/week.

OT 240 Prof. Watson

Activity Analysis I

3 credits

Analysis, theory, and application of activities and media used in occupational therapy treatment. Course will consider developmental parameters, and include self-care, work, and leisure aspects for the child and adolescent. Adaptation and grading of purposeful activities for therapeutic intervention, and practice in presenting and teaching activities will be included. One hour lecture, four hours lab/week.

OT 241 Prof. Watson

Activity Analysis II

3 credits

Analysis, theory, and application of additional activities and media used in occupational therapy treatment. Course will consider developmental parameters, and include self-care, work, and leisure aspects for the young and older adult. Adaptation and grading of purposeful activities for therapeutic intervention, and practice in presenting and teaching activities will be included. One hour lecture, four hours lab/week.

OT 275 Dr. Kasar Clinical Kinesiology 3 credits

Application of the principles of functional anatomy with emphasis on normal and abnormal movement. Measurement techniques for range of motion and muscle testing are presented, with emphasis on the movement and strength requirements found in self-care, work, and leisure activities. Concepts are integrated in lab experiences. Prerequisites:Biol. 110-111; Corequisite:PT 256. Two hours lecture, two hours lab/week.

OT 346 Staff

Pathological Conditions I

3 credits

A review of pathological conditions seen in occupational therapy practice, including: diagnosis, etiology, progression, performance deficits, treatment, prognosis, and functional outcomes. Emphasis placed on examining developmental pediatric disabilities, and psychosocial dysfunction. The promotion of health, prevention, and implications for the individual, family, and society are discussed. Three hours lecture/week.

OT 347 Staff

Pathological Conditions II

3 credits

A review of pathological conditions seen in occupational therapy practice, including: diagnosis, etiology, progression, performance deficits, treatment, prognosis, and functional outcomes. Emphasis placed on examining adult physical dysfunction, and geriatric difficulties. The promotion of health, prevention, and implications for the individual, family, and society are discussed. Three hours lecture/week.

OCCUPATIONAL THERAPY

Dept. and No.

Descriptive Title of Course

	Credits		SI	JM.
		FRESHMAN F	_	NT. SPRING
MAJOR	OT 140	Introduction to OT	1	
MAJOR	OT 141	OT Theoretical Concepts		3
COGNATE	Biol. 110-111	Structure -Function of		
		Human Body	4	4
COGNATE	Soc. 110	Intro. to Sociology		3
GE AREA II	Psych. 110	Fundamentals of Psychology	3	
GE AREA III	Engl. 107-Comm. 100	Composition-Public Speaking	3	3
GE AREA IV	Humanities	Humanities Elective	3	
GE AREA V	Phil. 120-T/RS 121	Intro. to Philosophy-Theology	l	3
			3	
			17	16
		SOPHOMORE		
MAJOR	OT 240-241	Activity Analysis I-II	3	3
MAJOR	OT 275	Clinical Kinesiology		3
COGNATE	PT 256	Human Anatomy for OT		4
GE AREA II	Psych. 221-222	Childhood & AdolAdult &Agir	ng 3	3

GE AREA III GE AREA IV GE AREA V GE AREA V	CMPS 104 Humanities Phil. 210 T/RS 122	Computing for Business/Soc. Soc. Humanities Electives Ethics Theology II	ci.3 3 3 <u>18</u>	3 3 16
MAJOR MAJOR MAJOR MAJOR MAJOR MAJOR	OT 346-347 OT 356 OT 360 OT 361 OT 380 * OT 381 *	JUNIOR Pathological Conditions I-II Functional Neuroanatomy OT Practice I (Pediatrics) OT Practice II (Psychosocial Re OTLevel I Clinical-I (Peds.) OTLevel I Clinical-II (Psysoc.)	3 3 3 ehab.) 1 (Int) 1 (Sum)	3
COGNATE COGNATE COGNATE GE AREA II	HADM 112 HS 341 Psych. 210 HS 333	Health Systems Group Dynamics Psychological Statistics Multiculturalisn in Human	3	3
GE AREA IV GE AREA V	Humanities Phil./Theol.	Services Humanities Elective Philosophy/Theology Elective	3 15 2	3 3 18
MAJOR MAJOR MAJOR	OT 440 OT 451 OT 460	SENIOR Mgt. and Supv. of OTServices Hand Rehabilitation OTPractive III (Physical Rehab.	2) 3	3
MAJOR MAJOR MAJOR MAJOR	OT 461 OT 475 OT 480 * OT 493	OTPractice IV (Geriatrics) Advanced Therapeutic Techniques OTLevel ICLinical-III (Phys.) Research Methods in OT	1 (Int) 3	3
GEAREAV GE FREE	Humanities Phil. 212 Free Electives	Humanities Electives Medical Ethics Free Electives	3 3	3
POST-ACADEMIC CLINICAL COURSEWORK MAJOR OT 481 ** OTLevel IIInternship-I (Psysoc.) 6 Sum) MAJOR OT 482 ** OTLevel IIInternship-II (Phys.) 6				

MAJOR	OT 481 * *	OTLevel IIInternship-I (Psysoc.) 6 Sum)
MAJOR	OT 482 * *	OTLevel IIInternship-II (Phys.) 6
MAJOR	OT 483	OTLevel IIInternship-III (Optional) (4-6)
		6 6 (4-6)

TOTAL: 147 credits

* OTLevel I Clinical I, II, III are each a minimum of two weeks, full time

OT 356 Functional Neuroanatomy

Dr. Kasar

3 credits

An overview of applied neuroanatomy and function, with emphasis on sensory, perceptual, and motor performance. Normal structure and function are discussed, together with nervous system dysfunction, as applied to self-care, work, and leisure activities related to OTpractice. Prerequisites:PT 256, OT 275. Three hours lecture/week.

Occupational Therapy Practice I:Pediatrics

Staff

3 credits

^{**} OTLevel IIInternship I, II, III are required and each a minimum of 12 weeks, full time, in Psychosocial Rehabilitation and Physical Rehabilitation. Semester scheduled for individual students may alternate as determined by the Department, and with considertion of student needs and circumstances.

A overview of theoretical frames of reference, evaluation, and treatment intervention strategies used to enhance the function of infants, children, and other individuals with developmental disabilities. Methods of observation, assessment, and treatment approaches are introduced and practiced in lab simulations and field trips to area facilities. Corequisites: OT 346, OT 356. Two hours lecture, two hours lab/week.

OT 361 Staff

Occupational Therapy Practice II: Psychosocial Rehabilitation

3 credits

A overview of theoretical frames of reference, evaluation, and treatment intervention strategies used to enhance the function of individuals with psychosocial dysfunction. Methods of observation, assessment, and treatment approaches are introduced and practiced in lab simulations and field trips to area facilities. Prerequisite: HS 341. Two hours lecture, two hours labbueck.

OT 380 Prof. Watson

Occupational Therapy Level | Clinical - I:Pediatrics

1 credits

Directed observation and supervised participation in the occupational therapy process in a pediatric/developmental disabilities setting. Emphasis on the integration of theory and practice. Prerequisites: OT 346, OT 356, OT 360. Intersession, two weeks, full-time

OT 381 Prof. Watson

Occupational Therapy Level I Clinical - II:Psychosocial Rehabilitation 1 credits
Directed observation and supervised participation in the occupational therapy process in a
psychosocial rehabilitation setting. Emphasis on the integration of theory and practice.

Prerequisites: OT 347, OT 361, OT 380. Summer, two weeks, full-time

OT 440 Staff

Management and Supervision of Occupational Therapy Services

3 credits

An application of major management principles to the provision of occupational therapy services, with emphasis on the administrative and supervisory requirements in managing an occupational therapy department. Information provided concerning program planning, recruitment, marketing, budgeting, supervision, documentation, evaluation, reimbursement, and quality assurance. Three hours lecture/week.

OT 451 Staff
Hand Rehabilitation 2 credits

An indepth review of functional anatomy of the hand and arm, with emphasis on rehabilitation principles and basic splinting techniques. Theoretical concepts, evaluation, and fabrication procedures are integrated in lab experiences. Corequisite: OT 460. One hour lecture, two hours lab/week.

OT 460 Staff

Occupational Therapy Practice III: Physical Rehabilitation

3 credits

A overview of theoretical frames of reference, evaluation, and treatment intervention strategies used to enhance the function of individuals with major physical disabilities. Emphasis placed on the neurodevelopmental, biomechanical, and rehabilitative approaches. Methods of observation, assessment, and treatment techniques are introduced and practiced in lab simulations and field trips to area facilities. Prerequisites: PT 256, OT 275; Corequisite: OT 451. Two hours lecture, two hours lab/week.

OT 461 Staff

Occupational Therapy Practice IV: Geriatrics

3 credits

A overview of theoretical frames of reference, evaluation, and treatment intervention strategies used to enhance the function of the elderly. Emphasis placed on understanding the biopsychosocial changes, characteristics, and needs of older persons. Methods of observation, assessment, and treatment approaches are introduced and practiced in lab simulations and field trips to area facilities. Prerequisites: OT 460, OT 480. Two hours lecture, two hours labweek.

OT 475 Staff

Advanced Therapeutic Techniques

3 credits

Advanced theoretical concepts and treatment applications designed to provide exposure to the most current areas of focus in practice. The approaches reviewed may include neurodevelopmental treatment, sensory integration, joint mobilization, industrial medicine, and assistive technology. Prerequisites:OT 451, OT 460. Two hours lecture, two hours labweek.

OT 480 Prof. Watson

Occupational Therapy Level | Clinical - III:Physical Rehabilitation

1 credit

Directed observation and supervised participation in the occupational therapy process in a physical rehabilitation setting. Emphasis on the integration of theory and practice. Prerequisites: OT 381, OT 451, OT 460. Intersession, two weeks, full-time

OT 481 Prof. Watson

OT Level II Internship - I: Psychosocial Rehabilitation

6 credits

Full-time, supervised, level II clinical experience in the area of psychosocial rehabilitation. In order to be eligible for the national certification examination for Occupational Therapist Registered, the student must achieve at least the minimum scores on the AOTA Fieldwork Evaluation. Prerequisites: Completion of all academic coursework. Summer or Fall, twelve weeks minimum, full-time.

OT 482 Prof. Watson

OT Level II Internship - II: Physical Rehabilitation

6 credits

Full-time, supervised, level II clinical experience in the area of physical rehabilitation. In order to be eligible to sit for the national certification examination for Occupational Therapist Registered, the student must achieve at least the minimum scores on the AOTA Fieldwork Evaluation. Prerequisites: Completion of all academic coursework. Summer or Fall, twelve weeks minimum, full-time.

OT 483 Prof. Watson

OT Level II Internship - III: Specialty

4-6 credits

Full-time, supervised, level II clinical experience in a specialty area of practice. Prerequisites: OT 481, OT 482. Spring, 8-12 weeks, full-time

OT 493 Dr. Kasar

Research Methods in Occupational Therapy

3 credits

An introduction to research design, data collection, analysis, and interpretation of findings. Emphasis placed on critical review of occupational therapy research studies, application to clinical practice, quantitative, and qualitative methods. Concepts are integrated through the preparation of a research proposal. Prerequisite: Psych. 210. Corequisites: OT 451, OT 460. Three hours lecture/week.

PHYSICAL EDUCATION

DR. WODDER, Chairperson

The Physical Education Department aims to improve the physical fitness level of each student and improve and increase students' recreational skills through our offerings of over 30 different activity classes. Emphasis is placed on instruction in a wide variety of popular sports, recreational and competitive athletics, especially those with carry-over value for post college years

Every regularly enrolled freshman and sophomore student except veterans must satisfy the Physical Education requirement unless excused by the Physical Education Department

It is possible to be excused from the Physical Education classes by application to the Physical Education Department if (a) a physician certifies that a student, for medical reasons, should not engage in vigorous physical activity; (b) the department deems it advisable; (c) veterans

Grading: S--Satisfactory

Grading: U--Unsatisfactory, requiring repetition of course

Physical Education

5-1 credit

Students talking physical education may elect from the following: tennis, swimming, yoga, skiing, soccer, racquetball, weight training, aerobics, basketball, volleyball, bowling, running, karate, self-defense for women, judo, advanced life saving, WSI, ballet, modern jazz dance, care and prevention of athletic injuries, wellness, golf, tai chi, badminton and scuba. Four credits are needed for graduation.

COACHINGMINOR

The 16-credit coaching minor is based on the American Sport Education Program (ASEP) and will help meet the needs of those who wish to coach and work more effectively with young athletes from youth through interscholastic sports

Introduction to Coaching, one credit, is a prerequisite for Sport Physiology, Administration, Medicine, Psychology, and Teaching Sport Skills. Teaching Sport Skills also requires students to intern with one or more of our Varsity Sports teams and coaches

Dept. and No.	Descriptive Title of Course	Credits
Ph. Ed. 160	Introduction to Coaching	1
Ph. Ed. 210	Sport Physiology	3
Ph. Ed. 202	Sport Administration	3
Ph. Ed. 203	Prevention and Care	
	of Sports Injuries	3
Ph. Ed. 284	Sport Psychology	3
Ph. Ed. 205	Teaching Sport Skills	3

TOTAL: 16

PHED160 Team Introduction to Coaching 1 credit

Prerequisite course which will assist prospective coaches as they develop a positive coaching philosophy, apply coaching principles, and use sport management skills. (GEPHED)

PHED210 Prof. Howlett
Sports Physiology 3 credits

Students will learn how to design effective, individualized training programs by incorporating training basics such a overload, specificity, adaptation, and progression. Will include individual differences among athletes, muscular fitness, energy fitness, and performance factors. (GEAREAI)

PHED202 Dr. Wodder Sports Administration 3 credits

Examines the business of coaching offering practical approaches to the administrative functions of organizing, planning, leading, and controlling. Integrates philosophy and principles into actual practice.

PHED203 Prof. Robertson

Prevention and Care of Sports Injuries

3 credits

Will cover sports first aid, prevention of and dealing with sports injuries. Helps coaches become competent first responders in sports emergencies. Students will learn how to recognize and prevent common sports injuries and administer appropriate first aid. Also covers procedures for evaluating and caring for injuries, guidelines for rehabilitation and therapeutic taping

PSYC 284 Dr. O"Malley Sports Psychology 3 credits

This course covers a variety of topics in sports psychology including the learning of athletic skills, principles of motivation, goal-setting and reinforcement. The emotional aspects of sports competition and various strategies for mental preparation for completion such as relaxation, concentration, and attentional skills will be discussed. (GEAREAII)

PHED205 Prof. Bessoir

Teaching Sports Skills

3 credits

Students will master the essentials of teaching sports skills and improve their teaching effectiveness. They will learn how to prepare for teaching sports skills, introduce, explain, and demonstrate sports skills, and use cognitive processes to improve performance. Students are also required to intern with varsity team(s). (GEAREAII)

PHYSICAL THERAPY

DR. BARNES, Chairperson

The Department of Physical Therapy at the University of Scranton offers a five-year, entry-level Master's Degree in Physical Therapy (MPT). The Physical Therapy Curriculum is designed to emphasize (a) life span development and the inherent changes which occur throughout onës life and (b) prevention of movement dysfunction. Quality preparation of the entry level physical therapist is the overriding goal of the MPT degree program. Our graduates will be able to serve the physical therapy needs of the general populace. They will be prepared for direct patient care and the education of patients, their families, peers, health professionals and the lay community. Graduates are also given the basic knowledge to provide consultation services, contribute to the management practices found in the provision of physical therapy services, and recognize the importance of sound research in the continued development of the profession

Admission of students is restricted to first-time freshmen. The number of qualified applicants admitted to the Physical Therapy Curriculum is dependent upon available academic and clinical resources. A student's matriculation in the pre-professional years is contingent upon satisfactory completion (C or better) of department pre-requisites, as well as successful completion of general University requirements necessary for graduation.

No Advanced Placement (AP) credit will be accepted for the biology, chemistry, or physics courses.

In the first year and one half (pre-professional), students focus on completion of general education requirements and courses listed as pre-requisites to the physical therapy curriculum. Some courses required by the department occur in the Intersession and Spring terms of the sophomore year. In the third, fourth and fifth years, professional concentration is placed upon physical therapy courses which pertain to basic and applied sciences, clinical science, patient evaluation and treatment techniques, management of physical therapy services, and clinical education experiences in numerous, varied health care facilities. Experience in direct patient care and administration of patient care services is provided by clinical rotations through physical therapy services located in affiliated health care institutions and agencies

Advancement to professional studies (Junior year) is automatic for pre-professional students (freshman and sophomore years) who satisfy the following criteria: (a) completion of all specified pre-professional, pre-requisite and general education requirements; (b) attainment of a minimum grade of C in all department pre-requisites in the sciences and department courses offered in the pre-professional phase of the curriculum; (c) maintenance of a 2.50 GPA during Fall, Intersession, and Spring of the freshman year and a 2.75 GPA during the Fall, Intersession and Spring terms of the sophomore year; (d) written documentation of approximately 70 hours of volunteer or work experience with a licensed physical therapist (the letter of recommendation should address the time spent in the facility, the nature of the volunteer/work experience and the potential the student has to be a physical therapy practitioner) and, (e) a positive evaluation of personal abilities and aptitudes by department faculty responsible for courses provided in the pre-professional phase of the curriculum.

Students enrolled in the MPT program are expected to complete the curriculum in the 5 year time span. All major courses and non-PT courses listed in the 3rd, 4th, or 5th years are to be taken in the prescribed sequence.

All professional students will be required to satisfactorily complete the clinical field experiences and internships specified. Costs associated with liability insurance, uniforms, travel, meals, temporary housing, and attainment and maintenance of CPR certification are the responsibility of individual students.

After the satisfactory completion of all curriculum requirements at the end of the fourth year, students will be awarded a Bachelor of Science degree in Health Sciences. THIS degree will not permit the student to practice Physical Therapy. A comprehensive examination will be given to all

PHYSICAL THERAPY

Physical Therapy majors during Fall term of the graduate (5th) year of the MPT degree program. Students must pass the examination to enter into the final phase of the Clinical Education sequence (PT580 - Clinical Internships). If the student does not receive a passing grade, there will be a delay of their entrance into the final clinical internships until satisfactory performance on the exam is achieved. Students must successfully complete all of the program requirements contained within the 5-year MPT degree program in order to sit for the licensure exam and to practice the profession of physical therapy.

Math Options for Physical Therapy Majors *

- #1 Students with a B+ average in high school math (through trigonometry or pre-calculus) and a score of less than 600 on the SAT in math will be enrolled in Math 103
- #2 Students with a B+ average in high school math (through pre-calculus) and a score of 600 or greater on the SAT in math will be enrolled in Math 114
- * University"s Mathematics Placement Procedures may overrule the above options
- #3 APcredit may be awarded in Math 114 on the basis of the CEEB exam; no AP credit is available for Math 103 on the basis of the CEEB exam

PHYSICALTHERAPY				
Dept. and No				
	Credits	FRESHMAN	FALL INT.	SDDING
COGNATE	Chem. 112 - 113	General and Analytical	FALL INT.	SPRING
COGNATE	Chem. 112 - 113	Chemistry I-II	41/2	41/2
	COGNATE	Biol. 110 - 111 Structure -F		41/2
	COGNATE	Human Body	4	4
COGNATE	Math 103 - 114	Pre-Calculus-Calculus	7	4
GE AREA III	Engl. 107	Composition	3	7
GE AREA III	Comm. 100	Public Speaking	J	3
GE AREA IV		Electives *	3	3
GE AREA V	Phil. 120	Introduction to Philosophy	3	Ū
GE AREA V	T/RS 121-122	Theology I-II	J	3
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			$171/\frac{2}{2}$ 7	171/2
		SOPHOMORE	,	,_
MAJOR	PT 240	Introduction to PT		1
MAJOR	PT 245	Principles of Human Anaton	mv	3
MAJOR	PT 290	Clinical Education Seminar		•
		(includes Medical Terminol		1
COGNATE	Biol. 245	General Physiology	41/2	•
COGNATE	Phys. 120 - 121	General Physics	4	4
GE AREA II	Psych. 110	Fundamentals of Psycholog	av 3	
GE AREA II	Psych. 221	Childhood and Adolescence		3
GE AREA III	CMPS 104	Computing for Business an		
GE AREA IV	Humanities	Electives*		6
GE AREA V	Phil. 210-212	Ethics - Medical Ethics	3	3
			171/2	4
				17
		JUNIOR		
MAJOR	PT 340	Basic Tech. in PT Mgt.	3	
MAJOR	PT 342	Management of the Elderly	2	
MAJOR	PT 345	Adv. Human Anatomy for F	PT 4	
MAJOR	PT 346	Concepts in Pathology	2	
MAJOR	PT 350	Intro. to Therapeutic Exerci	se 3	
MAJOR	PT 351	Orthopaedic PT I		4
MAJOR	PT 360	Clinical Sciences I		3
MAJOR	PT 370	Applied Physiology		3
MAJOR	PT 375	Kinesiology - Pathokinesiol	ogy for PT	3
		<u>.</u>		

MAJOR MAJOR	PT 376 PT 377	Therapeutic Modalities 3 Teaching in Physical Therapy 2
MAJOR GE AREA II	PT 390 Gero. 110	Clinical Education Seminar II 1 Introduction to Gerontology 3
		16 4 16
SUMMER	PT 380	PT Internship I 2 crds. (5 wks. 40 hrs -week)
MAJOR	PT 440	SENIOR Organization & Management in PT
MAJOR MAJOR MAJOR MAJOR	PT 445 PT 451 PT 455 PT 456	3 Basic-Applied Neuroscience 4 Orthopaedic Physical Therapy II 3 Pediatric Development 3 PTApproaches to
MAJOR MAJOR	PT 460 PT 465	Neurological Pop. 4 Clinical Sciences II 3 Psychosocial Aspects of Physical Disab. 3
MAJOR MAJOR MAJOR MAJOR GE AREA II	PT 470 PT 482 PT 490 PT 493 Psych. 210	Cardiopulmonary Physical Therapy 3 Advanced Skills Development (optional) 2 Clinical Education Seminar III 1 Research Design 3 Psychological Statistics 3
SUMMER	PT480	PT Internship II3 crds. (6 wks. 40 hrs- week)
GRADUATE MAJOR MAJOR MAJOR MAJOR MAJOR MAJOR MAJOR	YEAR PT 555 PT 556 PT 580 PT 582 PT 584 PT 590 PT 593	Correlative Rehabilitation 4 Motor Control/Motor Learning 4 PT Internship III (16 weeks) 12 Advanced Skills Development (optional) 2 Special Topics in Health Care 2 Clinical Education Seminar IV 1 Applied Research 3
* 0		

^{*} Students are encouraged to take at least 6 credits of the 12 required 14-16 12 in one humanity department.

TOTAL: 1801/2 - 1821/2 credits

SERV 192, 292, 392, 492

Staff

Service Learning

0 credits

This requirement will provide students an opportunity to go out into the surrounding community to work with agencies, groups and individuals in need of service. The students will be expected to reflect upon their individual experiences as they relate to their academic work. These reflections are to be shared with the Director of Collegiate Volunteers. The Service-learning hours will be logged, checked and noted on a student's transcript. Serv 292 requires prior completion of Serv 192, 292 for 392, 392 for 492

PT. 240 Prof. Zichettella

Introduction to Physical Therapy

1 credit

An overview of the history, current practice, and future profession of physical therapy. Current practice sites and settings are presented with consideration of traditional and emerging roles and responsibilities of the physical therapist. Information related to professional organizations and purposes is discussed. One lecture hour/week.

PT. 245

Drs. Mattingly, Kosmahl

Principles of Human Anatomy

3 credits

A introduction to human gross anatomy emphasizing a systemic approach to the histological and morphological concepts of the skeletal, muscular, circulatory, and nervous systems. An introduction to normal human movement with emphasis on joint arthrokinematics and the mechanics of muscle action is also presented. Two hours lecture, 2 hours labbueek.

PT. 256

Drs. Mattingly, Sorg

Human Anatomy for Occupational Therapy

4 credits

A regional in-depth study of human anatomy with major emphasis on functional anatomy. This will be accomplished through the study of proescted human specimens and surface anatomy. Occupational Therapy majors only. Three hours lecture, 2 hours lab/week.

PT. 290

Prof. Wagner

Clinical Education Seminar I

1 credit

This first of four clinical education seminars will provide students with an opportunity to participate in two 1/2 day group observations of local physical therapy departments. Each observation experience will be followed by a subsequent week of class discussion, the primary purpose of which will be to provide feedback and exchange information regarding the professional environment. (Comprehensive examination of medical terminology will be implemented.) Two hours lecture/week.

PT. 340

Dr. Barnes

Basic Techniques in Patient Management

3 credits

This course is designed to instruct the learner in basic patient management, evaluation and teaching techniques. Concepts related to nutrition from a biochemical perspective will be included along with an introduction to patient interviewing techniques and the development of clinical observation skills. The course content also focuses on patient mobility (e.g. transfers, use of assistive devices and gait training, basic emergency procedures, patient monitoring and fundamental nursing procedures). Two hours lecture, 2 hours lab/week.

PT. 342

Dr. Barnes

Management of the Elderly

2 credits

A study of the responsibilities of the physical therapist with the well elderly. Emphasis on prevention of illness, injury or disease through effective and timely intervention will be covered. A systematic approach to normal aging is also presented. (Intersession) Seven hours lectur@week.

PT. 345

Dr. Mattingly

Advanced Human Anatomy for Physical Therapy

4 credits

An in-depth study of gross human anatomy emphasizing a regional approach to the structural and functional relationships of skeletal, muscular, circulatory, and nervous structures comprising the head, neck, trunk, and extremities. Organic systems relevant to physical therapy practice are also examined. Human dissections are included. Two hours lecture, 4 hours labbweek.

PT. 346

Dr. Mattingly

Concepts in Pathology

2 credits

An introduction to the basic principles of pathology including an emphasis on the disease concepts and mechanisms relevant to physical therapy. (Intersession) Seven hours lecture/week.

PT. 350

Dr. Kosmahl

Introduction to Therapeutic Exercise

3 credits

This course serves as the students' introduction to the concepts of fitness and exercise and prepares the student to design and implement basic therapeutic exercise regimens for clinical use. Normal responses to exercise training, as well as patient responses to traditional therapeutic exercise regimens are presented. Evaluation of range of motion and muscle strength will be included. The course investigates physical fitness as a function of strength, endurance, flexibility, power, and skill. Physiology of the neuromuscular system as it relates to exercise is reviewed. Energy metabolism and nutritional support for energy metabolism are discussed. The effects of aging, disuse, immobilization, denervation, and selected drugs on exercise performance is discussed. Laboratory exposure to techniques for the improvement of strength, flexibility, endurance, power, and skill is offered. Two hours lecture, 2 hours lab/week.

PT. 351

CollegeSource© by Career Guidance Foundation

Dr. Kosmahl

Orthopaedic Physical Therapy I

4 credits

This course prepares the student to practice entry-level orthopaedic physical therapy. Evaluation and treatment of musculoskeletal system dysfunction utilizing exercise, manual therapy (mobilization), and manual and mechanical traction are emphasized. Students learn to clearly identify specific musculoskeletal problems, and to plan and implement appropriate physical therapy interventions. Two hours lecture, 4 hours labweek.

PT. 360 Dr. Sorg 3 credits

Clinical Sciences I

This course presents physician lectures providing an overview of selected diseases and disorders commonly referred for physical therapy evaluation and treatment. Relevant medical and surgical interventions will be reviewed with consideration of their implications for comprehensive patient management. Emphasis on musculoskeletal, rheumatic and cardiovascular diseases. Three hours lecture/week.

PT. 370 Prof. Sanko

Applied Physiology

3 credits

An overview of the physiological response in the human organism to physical activity. Emphasis is placed on the acute and chronic adaptation of the body systems to exercise by individuals in various states of health and disease. Includes appropriate laboratory experiences to illustrate selected responses. Particular attention is given to cardiovascular, pulmonary and muscle physiology. Two hours lecture, 2 hours lab/week.

PT. 375 Drs.Kosmahl, Sorg

Kinesiology and Pathokinesiology for Physical Therapy

3 credits

This course presents a study of normal movement, and movement dysfunction associated with selected forms of pathology. Emphasis is placed on the mechanics of muscle actions and joint arthrokinematics, and biomechanical factors are discussed. Normal and pathological gaits are studied. Two hours lecture. 2 hours lab/week.

PT. 376 Dr.Kosmahl, Prof. Sanko

Therapeutic Modalities

3 credits

This course prepares the student for the safe, effective, and appropriate use of therapeutic modalities. The pertinent physics and physiology are reviewed. Clinical evaluation and clinical application are presented. The course reviews the physiology of pain and how pain can be modulated by use of therapeutic modalities. Topics covered in the course include the use of heat, cold, light, electricity, water, biofeedback, and intermittent compression. Principles of electrophysiologic testing in neuromuscular diagnosis are presented. Laboratory exposure to all modality and electrophysiologic testing equipment and procedures is given. Two hours lecture, 2 hours lab / week.

PT. 377 Dr. Barnes

Teaching in Physical Therapy

2 credits

Discussion of teaching, learning theories, and the roles of the PT as a teacher is offered. Development and implementation of learning experiences (emphasis is on the student as a facilitator of patient learning) and the process of presenting information are included. Two hours lecture/week.

PT. 380 Prof. Wagner

Internship I 2 credits

A five week, full-time introduction to the practice of physical therapy. The application of basic physical therapy procedures and patient management skills will be emphasized in a supervised general hospital, outpatient, orthopedic, sports, or industrial medicine setting. An inservice or case presentation will be required during the internship

PT. 390 Prof. Wagner

Clinical Education Seminar II

1 credit

This second semester will prepare students for their first full-time internship. A thorough orientation to the clinical education component of the curriculum will be provided, focusing on expectations, objectives, goals and responsibilities. In addition, an emphasis will be placed on gaining familiarity with the medical record, conducting patient interviews, developing active listening skills and

acquiring beginner level competency in professional documentation. Site selections for Internships # I and II will be made via a lottery system

PT. 440 Dr. Barnes

Organization & Management in Physical Therapy

3 credits

Introduction to the management process with specific information devoted to inter- and intradepartmental relationships, leadership style and theories, motivation, and decision making. Topics related to administrative policies/procedures in the provision of patient services are discussed. A budget proposal and department design project is required. Three hours lecture/week.

PT. 445 Dr. Sorg

Basic and Applied Neuroscience

4 credits

A study of the human nervous system which details the developmental, histological, physiological concepts of its organization. Emphasis is placed on the understanding of human movement through sensory-motor integration. Clinical manifestations of dysfunctions relevant to physical therapy practice will be discussed. Three hours lecture, 2 hours lab/week.

PT. 451 Dr. Kosmahl, Sorg

Orthopaedic Physical Therapy II

3 credits

This course provides the student with the knowledge and skills required for the practice of entry-level sports and industrial physical therapy. Emphasis is placed on evaluation, treatment and restoration of functional capability. Prevention of injury during athletic performance and in the workplace is considered. The therapists role as educator for the prevention of athletic and industrial injuries is discussed. Two hours lecture, 2 hours lab/week.

PT. 455

Pediatric Development

3 credits

This course is a comprehensive look at motor development from the pre-natal period though early childhood. Developmental motor and cognitive issues are discussed. Methods of developmental assessment are introduced and practiced. The second half of the course covers medical conditions specific to the pediatric population. An overview of physical therapy management of these conditions is discussed. The role of the physical therapist in the multi-disciplinary setting is presented. Lab experiences include: live observations and demonstrations, videos, applicable clinical research and field trips. Two hours lecture, 2 hours lab/week.

PT. 456 Prof. Zichettella

PT Approaches to Neurological Populations

4 credits

A study of classic and contemporary approaches in the assessment and treatment of neurological populations. Concepts of normal/abnormal movement, cognition and perception, proprioceptive neuromuscular facilitation, neurodevelopmental treatment and motor controlmotor learning issues are discussed. There will be an in-depth analysis of assessment, documentation and treatment planning. Lab experiences will concentrate on treatment planning and application, with problem solving scenarios. Live demonstrations, videos, and applicable clinical research will be incorporated into the learning process. Two hours lecture, 4 hours lab/week.

PT. 460 Prof. Zichettella, Staff

Clinical Sciences II

3 credits

Overview of the diagnosis, etiology, evaluation and treatment of diseases disorders associated within the central and peripheral nervous systems. Specific applications for physical therapy intervention are discussed. Three hours lecture week.

PT. 465 Prof. Wagner

Phychosocial Aspects of Physical Disabilities

3 credits

A comprehensive look at the psychosocial components of physical disabilities. Particular emphasis will be placed on understanding the psychological, behavioral, emotional and cognitive influences affecting rehabilitation outcomes. Selected physical conditions will be examined. Concepts regarding life stage development: stages of adjustment, strategies for intervention, sexuality, family adjustment and terminal illness will be explored. The impact of societal beliefs and values about the disabled will be discussed. Theories regarding the "therapeutic milieu" and professional burnout will be examined. Case presentations will supplement didactic material. Three hours lecture week.

PT. 470 Prof. Sanko
Cardiopulmonary Physical Therapy 3 credits

Principles of cardiopulmonary disease prevention, treatment and rehabilitation including risk factor analysis, exercise proscription and testing procedures will be examined. Laboratory experiences are designed to illustrate these principles and develop skills necessary for their implementation. Two hours lecture, 2 hours lab/week.

PT. 480 Prof. Wagner

Internship II

3 credits

A six-week, full-time intermediate level of physical therapy practice. The application of more highly developed therapeutic skills and techniques will be emphasized in a supervised general hospital, out-patient, sports, industrial medicine, orthopedic or private practice setting. An inservice or case presentation will be required during the internship

PT. 482 / 582 Dr. Barnes

Advanced Skills Development

2 credits

This course is designed to provide the student with the opportunity to explore, in increasing depth, an area of clinical interest. A contract drawn between student and advisor is required. Pas#ail course. Optional.

PT. 490 Prof. Wagner

Clinical Education Seminar III

1 credit

These weekly discussions will further prepare students for their subsequent internships and ongoing professional practice. Goals, objectives, expectations and responsibilities of Internship II will he clarified. Topics will include an analysis of individual learning and personality styles, assertiveness training and increased awareness of the cognitive influences on behavior. Case presentations will be used to promote the development of clinical problem solving skills

PT. 493 Prof. Sanko

Research Design

3 credits

Introduction to research including design selection, general concepts of data collection and analysis and the critical review of literature relevant to the field of physical therapy. Students are required to formulate a research hypothesis and submit a formal research proposal. Methods of research presentation are discussed. Three hours lecture/week.

PT. 555 Dr. Barnes, Prof. Zichettella

Correlative Rehabilitation

4 credits

The evaluation and treatment of intermediate and long term patients with emphasis on prosthetics, orthotics, spinal cord injuries, burn and wound care, head trauma and speech disorders. Functional assessment of the activities of daily living will be covered in conjunction with wheelchair prescription. Three hours lecture, 2 lab hours/week.

PT. 556 Prof. Zichettella

Motor Control/Motor Learning

4 credits

This course introduces the science of motor control/motor learning including neuromotor processes that underlie normal and abnormal movement. Theories of motor learning and mechanisms of acquisition of movement are discussed. Methods of analysis of movement are introduced and practiced. Neuromotor and Neuropsychological research is investigated and clinical implications are discussed. Three hours lecture, 2 hours lab/week.

PT. 580 Prof. Wagner

Internship III

12 credits

Two eight-week, full-time physical therapy advanced level internships. Increased independence and decision-making skills will be stressed in supervised general hospital, out-patient, sports medicine, industrial medicine, rehabilitation, private practice, pediatric or other specialized settings. Emphasis will focus on the integration of all didactic coursework directed at the goal of achieving "entry-level" clinical competence. An inservice, case presentation or research paper will be required during each internship.

PT. 584 Dr. Barnes

Special Topics in Health Care

2 credits

A discussion-centered course, the content will include the more contemporary issues in health care delivery. Emphasis on the provision of physical therapy services will be covered. Two hours lecture/week.

PT. 590 Prof. Wagner

Clinical Education Seminar IV

1 credit

The last in the series of clinical seminars, these monthly meetings will focus on establishing goals, objectives, expectations and responsibilities of the final two full-time "specialty" Internships. Guidance for the selection of specialized sites will be available. Students well be required to develop individual "learning contracts" to foster optimal outcomes in the clinical setting. Information and assistance will be provided to prepare students for state licensing examinations. Questions and concerns regarding employment options will be addressed

PT. 593 Prof. Sanko

Applied Research

3 credits

Students refine and implement the research proposals submitted in PT 493. The collection of data with appropriate statistical analysis is completed and a formal written presentation in approved format of the methods, results and conclusion is required. All research initiated is subject to the rules and policies of the University with regard to the human or animal subjects

DEXTER HANLEY COLLEGE

Shirley M. Adams, Ph.D., Dean

Dexter Hanley College has been an important part of the University for over half a century. Today it continues its tradition of programming for adult students, enabling them to accomplish their academic goals.

GOALS AND OBJECTIVES

Dexter Hanley College is committed to carrying out the Jesuit tradition by offering quality programs, quality services, and the opportunity for non-traditional students to accomplish their educational goals. Hanley College is dedicated to serving the local community and continually updates its programs and services in response to the community's ever-changing needs.

Hanley College serves primarily the following five groups:

- Adults who wish to pursue an undergraduate degree in evening hours
- Adults who wish to pursue an undergraduate degree on a part-time basis b.
- C. All students who want to obtain an associate degree or certificate
- Adults who want to improve their professional competence andor to prepare themselves for new careers.
- Adults who want to take advantage of educational programs for their own enrichment

Hanley College is dedicated to helping students succeed by offering scholarship opportunities, life experience credits, and academic and career counseling

DEGREE PROGRAMS Accounting	BACHELOR"S DEGREE History	ASSOCIATE DEGREE Associate In Arts
Communication	Human Services	Business
Computer Information Systems	International Business *	Computer Information
·		Systems
Criminal Justice	Liberal Studies	Criminal Justice
Economics	Management	Electronics Engineering*
Education / Elementary *	Marketing	Gerontology
Education / Secondary *	Nursing *	Health Administration
Finance	Political Science *	Human Services
Gerontology *	Production and Operations	Political Science
Health Administration	Management	Public Administration
Sociology *	Sociology *	

^{*} Some daytime courses will be required

Other baccalaureate majors are available to students who can attend a number of courses scheduled only during the day.

ADMISSION INFORMATION

Application for Admission

Admission to Dexter Hanley College at the University of Scranton is based on the applicants academic record, life experiences, and motivation to continue education. Application forms may be obtained from the DHC Office or may be requested by phone (941-7580)

Admission of First-Time Students

Dexter Hanley College operates on a rolling admissions plan which means that applications are processed on a continual basis as they are received. All candidates are informed of the admission committee's decision within two to three weeks after the completion of their file of supporting credentials.

To complete the application file, the candidate must have the following sent to the Hanley College Office:

- 1. A completed application form accompanied by the \$15.00 application fee
- 2. An official high school transcript (and Graduate Equivalency Diploma (GED), including scores, when applicable).

Official transcripts of high school and previous college courses (where applicable) must be submitted to the Dexter Hanley College Office not later than three weeks before the beginning of classes each semester so that the student may be considered for official admission to the College

All prospective students are strongly encouraged to seek educational advising prior to the time of actual registration. Appointments for advising may be made by contacting the Hanley College Office (941-7580).

Admission of Transfer Students

Under the rolling admissions plan, transfer candidates may be considered on the basis of their last semester's courses and previous work at an accredited college or university. Students who have been dismissed from another institution cannot apply to the University of Scranton any sooner than one full semester after the semester in which the dismissal took place. All candidates are informed of the admission committee's decision within two to three weeks after completion of their file of supporting credentials.

To complete the application file, a transfer candidate must have the following sent to the Hanley College Office:

- 1. A completed application form accompanied by the \$15.00 application fee
- Official high school transcripts.
- 3. Official transcripts, mailed directly from every college or university attended

Official transcripts of high school and previous college courses (where applicable) must be submitted to the Dexter Hanley College Office not later than three weeks before the beginning of classes each semester so that the student may be considered for official admission to the College

In general, advanced standing will be granted for those subjects for which there are equivalent courses at the University, for which the student received grades of C or higher, and for those which are acceptable for the specific program the student chooses upon entering Hanley College. If the student changes major at a later date, another review of transfer credits will be made at that time, and the student will be given a written evaluation clearly indicating the transfer credits which are applicable to the new major. In all cases, for a bachelor's degree, transfer students must earn a minimum of 63 credits at the University of Scranton. Once a transfer student matriculates, the University policy on course transfers applies. (See page 20 of this catalog)

In the case of students transferring from other colleges within the University of Scranton, all coursework satisfactorily completed and applicable to the student's program of study will be accepted in Dexter Hanley College.

Conditional Admission

A student may be admitted conditionally if official transcripts have not been received in the DHC Office before classes begin. The student whose official records have not been received within five weeks AFTER classes have begun will not be allowed to register for a subsequent term

Upon receipt and evaluation of the official academic transcripts, the Hanley College Office will notify the student regarding acceptance or rejection. The student who is rejected will be allowed to finish the semester if he/she wishes to do so, but will not be allowed to register for subsequent terms. The student who is accepted will be subject to all rules, regulations, and policies of regularly enrolled students. Because official academic transcripts are necessary for effective academic advising, the student who enters under the conditional admission policy takes full responsibility for any errors in course selection and for all extra costs involved in making changes in class registrations.

Developmental Placement Program

The goal of the Developmental Placement Program is to provide university-level learning opportunities for students who are just beginning their collegiate careers. It entails providing an overview of the scholarly resources available at this university and carefully designing the kind of serious study projects that cultivate students' critical thinking and reading skills, study habits, and oral and written expression, while adding to their general knowledge in a wide range of humanistic disciplines. The knowledge, understanding, and skills that students can gain by confronting the liberal arts tradition in the early stages of their university studies will provide them with a solid base on which to build in the future.

Admission of Special Students

Special students are those who have already completed a B.A. or B.S. degree at the University of Scranton or another institution, visiting students (matriculated at another institution), some part-time students taking courses for "self-improvement," and those admitted to Certificate Programs. Admission as a special student does not imply admission to candidacy for a degree. Special students must complete the application process for Hanley College

Second Baccalaureate Degree

University of Scranton graduates and persons with good scholastic records and a baccalaureate degree from a regionally accredited institution, who wish to earn a second baccalaureate degree at the University of Scranton, must apply to Dexter Hanley College

Candidates for a second baccalaureate degree are expected to complete a minimum of 63 semester hours at the University of Scranton beyond the completion of the studies for the first degree and pursue a discipline disparate from the discipline of the first degree. No semester hours from the first baccalaureate degree can be used toward this 63 semester hour requirement. Grades for courses taken by University of Scranton graduates after completion of the requirements for the first baccalaureate degree will have no effect on the final GPA of the first degree

Certificate Programs

Students wishing to complete a certificate program in Hanley College must meet the requirements specified by the appropriate department. (Details about the Certificate Programs currently available will be found on pages 209 - 213.)

Self-Improvement

Students who do not plan to work toward a degree or a certificate, must also file the application for admission and must arrange for official transcripts to be sent to the Hanley College Office

Visiting Students

Students matriculated in other colleges or universities, who wish to take courses for credit at the University of Scranton, must present written approval (of their dean, or other authorized administrator) for all courses taken at the University of Scranton. Reader courses are not available for visiting students.

Visiting students must complete an application form, but are not required to submit transcripts. Visiting students taking more than one course in any semester are required to attend orientation

Readmission

If a student who has been dismissed from the University of Scranton wishes to apply for readmission to the University, the student may do so no sooner than one full semester after the semester in which the dismissal took place. Readmission is not automatic; the student will need to demonstrate that the conditions which led to dismissal will not present a continuing problem. If a student is dismissed a second time from the University, readmission is not permitted

AUDITORS

Hanley students may register as auditors with the approval of the dean. Entry of the audit grade on the transcript assumes satisfactory attendance at class meetings. The student should consult with the instructor as to what constitutes satisfactory attendance. Auditors are not responsible for assigned work, quizzes, or examinations, and they receive no credit for the course. Students not enrolled as auditors who wish to change their status to that of auditor must do so by deadlines specified in the academic calendar. Auditing students pay the regular tuition and fees (see page 215).

CAREER DEVELOPMENT GUIDANCE CENTER

Hanley students who are unsure of their choice of major may participate in this free guidance program. Students will participate in small group meetings and will use computer software designed to identify abilities and vocational preferences. This program covers individual assessment, resume writing, job search and interview techniques. A special career reference materials library is housed at the Center. Advisors in Hanley College, Career Services, and the Counseling Center are also available for consultation

DEXTER HANLEY COLLEGE BACCALAUREATE DEGREE PROGRAMS

Dexter Hanley College offers a number of baccalaureate degree programs in common with other colleges of the University.

The Hanley College baccalaureate programs have the same general education requirements (usually 63 credits) as the corresponding programs in the College of Arts and Sciences, the School of Management, and the College of Health, Education and Human Resources. The distribution table for these general education requirements is shown on pg. 21. It should be noted, however, that the physical education requirement, described on pg. 19, is waived for DHC students

Curricular requirements for the following degree programs are specified on the pages indicated:

Accounting, pg. 146 Health Administration, pg. 182

Communication, pg. 64 History, pg. 102

Computer Information Systems, pg. 70 Human Services, pg. 164 Criminal Justice, pg. 73 International Business, Pg. 155

Economics (CAS program), pg. 76; Management, pg. 156 (SOM program) pg. 150 Marketing, pg. 159 Education, Elementary, pg. 168 Nursing, pg. 185

Education, Secondary pg. 169-178 Political Science, pg. 122

Production and Operations Management, pg. 161 Finance, pg. 153 Gerontology, pg. 133

Hanley College also offers two major programs unique to itself: B.S. in Nursing for Registered Nurses, and Liberal Studies. Descriptions for these programs follow

B.S. IN NURSING FOR R.N. STUDENTS

Sociology, pg. 132

DR. MARGARETE ZALON, Director, R.N. Track

The registered nurse student is recognized as an adult learner who comes with a diversity of life experiences, education and clinical expertise, as well as motivation and ability to learn independently and collaboratively. To facilitate advanced placement, opportunity is provided for students to validate, by examination, previously acquired educational and clinical competencies

The nursing program, accredited by the National League for Nursing, is open to all registered nurses who meet admission requirements. The registered nurse student may enroll on either a full-time or part-time basis.

To apply for admission to the B.S. for R.N. track, students should submit the following with a completed application form and fee:

- 1. Official transcripts from high school, nursing school and other colleges attended
- 2. A copy of current Pennsylvania Registered Nurse License

Transcripts are individually reviewed and evaluated. Transfer courses, especially courses in the sciences, must be equivalent to courses in the nursing program at the University of Scranton (science courses taken at a non-degree program are accepted if they were taken at an affiliated college and received college credit); a grade of C or better must have been earned. If chemistry courses to be transferred do not have sufficient biochemistry, in the opinion of the faculty, the student may challenge Chem. 111 or enroll in the course

Student Policies: R.N. Track

- 1. In order to continue in the nursing program, ordinarily the R.N. student must enroll in a minimum of one course or validation exam in each regular semester
- The R.N. student is expected to complete the degree requirements within seven years from the date of admission. Fifty-seven credits in Nursing are required for the degree, 33 of which may be earned through N.L.N. Mobility Profiles
- 3. Students must have completed at least 100 credits prior to enrollment in Nurs. 481 or 493
- 4. Nursing students must achieve a grade of C or better in the major and cognate courses. Once enrolled, all nursing courses must be taken at the University of Scranton
- 5. Before students begin clinical work, they must submit a copy of their professional malpractice liability insurance policy, evidence of current licensure and CPR certification

SUGGESTED GUIDE TO PROGRAM PLANNING FOR REGISTERED NURSE STUDENTS Dept. and No. Descriptive Title of Course

•	Credits	•	
		FRESHMAN	
COGNATE	Chem. 110-111	Introduction to Chemistry I-II *	8
COGNATE	Bio. 110-111	Structure & Function	
		of Human Body I-II * *	8
GE AREA II	Psych 110	Fundamentals of Psychology * * *	3
GE AREA IV	Humanities	Electives	9
GE AREA V		Introduction to Philosophy	3
GE AREA V	T/RS 121	Theology I <u>3</u>	
			34
		SOPHOMORE	
MAJOR	Nursing 241	Perspectives in Professional	
		Nursing	3
MAJOR	Nursing 242	Nursing Related to	
		Assessment of Health Patterns	3
COGNATE	Bio. 210	Intro to Medical Microbiology	3
COGNATE	Math 204	Special Topics of Statistics	3
GE AREA II	Psych 221-224	Childhood Adolescence ***-Personality***	6
GE AREA III	English 107	Composition	3
	Comm. 100	Public Speaking	3
GE AREA IV		Elective	3
GE AREA V	Phil. 210-212	Ethics - Medical Ethics * * * 6	
			33
		JUNIOR	
GE AREA IV	Humanities	Electives	6

GE AREA V	T/RS 122	Theology II		3
MAJOR		N.L.N. Mobility Profile	s	<u>33</u>
				42
		SENIOR		
MAJOR	Nursing 481	Nursing The Ind. / Far	n. / Comm.	6
MAJOR	Nursing 493	Research in Nursing		3
MAJOR	Nursing 482	Synthesis of Nursing	Concepts	9
GE AREA V	T/RS - Phil.	Elective	·	3
GE FREE	Elective	Elective	<u>3</u>	
			_	24

A total of 33 credits may be validated by taking the N.L.N. Mobility Profiles. See validation policy for additional information. See p. 215 for cost information

LIBERALSTUDIES

The Liberal Studies major is a highly individualized program offered exclusively through Dexter Hanley College. Applicants who have attended other accredited colleges may transfer up to 60 credits for applicable courses in which a grade of "C" or better was earned. Students who qualify for this interdisciplinary degree program are eligible to earn as many as 30 semester hours for academically relevant experience. (See page 200). Degree requirements for the Liberal Studies major are outlined in the chart which follows

In developing the areas of concentration, the student will select 3 or 4 fields of study, with at least 12 credits and no more than 21 credits in any single field. Careful attention must be given to selecting the areas of study as well as to determining the number of credits to be taken in each area selected. Thus, the student may be asked to seek advice from faculty members in several departments before drawing up a final degree plan

No more than 30 credits are allowed in the concentration areas in business courses, in keeping with AACSB accreditation guidelines

DEGREE REQUIREMENTS FOR LIBERAL STUDIES

General Education Cre				
Area I	Natural Sciences/Mathematics	9		
Area II	Social/Behavioral Sciences	9		
Area III	Communication *	9		
Area IV	Humanities	18		
	(English & Foreign Literature, Art, Music, History)			
Area V	Philosophy/Theology	18		
	(Phil. 120 & 210T/RS 121 & 122			
2 other Philosophy or T/RS electives)				
Free Area	Elective	3		

Areas of Concentration:

(A) (B) (C) <u>57</u> (D) }

TOTAL: 123 credits

^{*} Chem. 111 and transfer credits may replace Chem. 110 and 111 upon recommendation of the R.N. program advisor.

^{**} Bio. 111 (2 cr.) and transfer credits may replace these courses upon recommendation of R.N. program advisor.

^{* * *} Department recommendation.

^{*}Students will take Comm. 100 and Engl. 107 unless exempted by the University. Students exempt from either Comm. 100 or Engl. 107 are encouraged to take a course in Comm. or Wrtg. for each exempted course.

ASSOCIATE DEGREES

ASSOCIATE IN ARTS

The Associate in Arts is often classified as the Liberal Arts "transfer degree" in that it provides the student with the broad exposure to the arts and sciences necessary for later specialization in four-year degree programs in Liberal Arts and in business and professional fields

Degree Requirements for Associate in Arts

The Associate in Arts is a two-year Liberal Arts degree. Each candidate for the degree must complete 60 semester hours of credit. Of these, 54 credits must be earned in the Liberal Arts, according to a prescribed plan covering the humanities, socia/behavioral sciences, philosophy, theology/religious studies, and natural sciences/mathematics. The remaining six semester hours are allotted to free electives. Applicants who have attended other accredited colleges may transfer up to 30 credits for applicable courses in which a grade of "C" or better was earned. An outline of the degree credit requirements follows:

Credits Required by Area of Study

Area I	Natural Sciences/Mathematics	9
Area II	Social/Behavioral Sciences	9
Area III	Communication: Comm. 100 Public Speaking	3
	ENGL 107 Composition	3
	Elective	3
Area IV	Humanities (Fine Arts; History; Literature)	18
Area V	Phil. 120 Introduction to Philosophy	3
	T/RS 121 Theology I	3
	Phil 210-Ethics or T/RS 122-Theology II	3
Free Area	Electives_	6

TOTAL: 60

ASSOCIATE DEGREES IN CAREER-RELATED FIELDS

The Associate of Science degree in career-related fields has been designed as the natural companion to the Bachelor of Science degrees in those majors. At the present time the University offers associate degrees in the following areas:

Business Health Administration
Computer Information Systems
Criminal Justice Political Science
Electronics Engineering Public Administration

Gerontology Sociology

BUSINESS

General Education

No.	Description of Course	Credits
Math 106, 107	Quantitative Methods I, II	6
Eco. 153, 154	Principles of MicroMacro. Economics	6
Social/Behav. Sci.	Elective	3
ENGL 107	Composition	3
Comm. 100	Public Speaking	3
CMPS 104	Computing for Business & Social Sciences	3
Humanities	Electives	9
Phil. 120 - T/RS 121	Introduction to Philosophy - Theology I	6
Phil. 210 or T/RS 122	Ethics or Theology II	3
	Math 106, 107 Eco. 153, 154 Social/Behav. Sci. ENGL 107 Comm. 100 CMPS 104 Humanities Phil. 120 - T/RS 121	Math 106, 107 Eco. 153, 154 Social/Behav. Sci. ENGL 107 Comm. 100 CMPS 104 Humanities Quantitative Methods I, II Principles of MicroMacro. Economics Elective Composition Public Speaking Computing for Business & Social Sciences Electives

Major/Cognates

Mgt. 161	Introduction to Business	3
Acc. 253, 254	Financial/Managerial Accounting	6
QMS 251, 252	Statistics for Business, I, II	6
Mgt. 251	Legal Environment of Business	3

TOTAL: 60 credits

NOTE: Students who complete the associate degree in business and wish to continue toward the B.S. in accounting, economics, finance, management, marketing, or production and operations management, must have attained a 2.5 in major and cognate courses and an overall G.P.A. of 2.0

3

3/4

COMPUTER INFORMATION SYSTEMS

General I	Education		
Dept. and No.		Description of Course	Credits
Area I	Math 142, 114	Discrete Structures, Analysis I*	8
Area II	Eco. 153-154 or	Principles of MicroMacro. Economics* *	
	Pol. Sci. 110-111	Intro. to Public Administration* *, Public Policy*	* 6
Area III	ENGL 107	Composition	3
	WRTG 211	Technical and Business Writing	3
	Comm. 100	Public Speaking	3
Area IV	Humanities	Electives	9
Area V	Phil. 120 - T/RS 121	Introduction to Philosophy - Theology I	6

44/45

Elective*

Phil. 210 or T/RS 122 Ethics or Theology II

Major /Cognates

Free Area Elective

Hates		
CMPS 134, 144	Computer Science I, II	7
CMPS 240	Data Structures	3
CMPS 250	Machine Organization &	
	Assembly Programming	3
CMPS 330	Information Systems Analysis	3
CMPS 340	File Processing	4
		20

TOTAL: 64/65 credits

CRIMINALJUSTICE

General Ed	ducation			
Dept. and	No.	Description of Course	Credits	
Area I	Nurs. 100 *	Family Health	3	
Area II	Soc. 110	Introduction to Sociology	3	
	Psych. 110	Fundamentals of Psychology	3	
	Soc. 224 *	American Minority Groups	3	
Area III	Comm. 100	Public Speaking	3	
	ENGL 107	Composition	3	
	CMPS 104 *	Computing for Business & Social Sciences	3	
Area IV	Humanities	Electives	9	
Area V	T/RS 121 - Phil. 120	Theology I - Intro. to Philosophy	6	
	T/RS 122 or Phil. 210	Theology II or Ethics	3	
Free Area	Elective	Elective	3	
Major/Cog	nates			

CJ 110	Introduction to Criminal Justice	3
S/CJ 210	Law and Society	3
S/CJ 212	Criminological Research	3
S/CJ 213	Criminology	3
Major	Electives	6

TOTAL: 60 credits

^{*} Math 103-if needed preliminary to taking Math 114 (4 cr.)

^{**} Recommended for associate degree; required for bachelor's degree.

^{*} Recommended courses

ELECTRONICS ENGINEERING General Education

General Education			
	Dept. and No.	Description of Course C	edits
Area I	Math 103, * 114	Pre-Calculus, Analysis I	8
Area II	Soc./Behav. Sci.	Elective	3
Area III	ENGL 107	Composition	3
	Comm. 100	Public Speaking	3
Area IV	Humanities	Electives	6
Area V	Phil. 120 - T/RS 121	Intro. to Philosophy - Theology I	6
			29
Major/Co	gnates		
	Phys. 140, 141	Elements of Physics (& labs)	8
	Phys. 270	Elements of Modern Physics	4
	Math 221, 222	Analysis II, III	8
	CMPS 134	Computer Science I	3
	Engr. 252	Solid State Materials Science	3
	Engr. 253-4	Introduction to Computer Aided Design-3D Design	2
	EE. 241	Circuit Analysis (& lab)	4
	EE. 240	Digital Circuits	3
	EE. 343	Electronic Circuits I	3
	EE. 243L	Digital System Design Lab	2
			40

TOTAL: 69 credits

GERONTOLOGY General Education

General Education					
Dept. and No.			Description of Course	Credits	
	Area I	Biol. 101 - 102 *	General Biological Science	6	
	Area II	Soc. 110	Introduction to Sociology	3	
		Psych. 110	Fundamentals of Psychology	3	
		Psych. 222	Adulthood & Aging	3	
		HADM 112	Health Systems	3	
	Area III	Comm. 100	Public Speaking	3	
		ENGL 107	Composition	3	
	Area IV	Humanities	Electives	9	
	Area V	T/RS 121 - Phil 120	Theology I - Intro to Philosophy	6	
		T/RS 122 or Phil. 210	Theology II or Ethics	3	
	Free Area	Elective	Elective	3	
	Major/Cognate				
	major/oog	Gero. 110	Introduction to Gerontology	3	
		Gero. 230	Social Policy and Aging	3	
		Gero. 232	Aging and Death	3	
		Major	Electives	6	
				TOTAL:60 credits	

^{*} Recommended Courses

HEALTH ADMINISTRATION General Education

	Dept. and No.	Description of Course	Credits
Area I	Acc. 253 * - 254 *	Financial/Managerial Accounting	6
Area III	ENGL 107	Composition	3

^{*} Math 103, required in the Associate Degree program, is not required for a bachelo's degree in Electronics Engineering unless so determined by math placement testing. Math 005 may also be required, as determined by math placement testing

Area IV Area V Free Area	Comm. 100 CMPS 104 Humanities T/RS 121 - Phil. 120 T/RS 122 or Phil. 210 Electives	Public Speaking Computing for Business & Social Sciences Electives Theology I - Intro. to Philosophy Theology II or Ethics Electives	3 3 9 6 3 6
Major/Cognate			
, ,	HADM 111	Introduction to Health Administration	3
	HADM 112	Health Systems	3
	HADM 312	Health Finance	3
	HADM 313	Health Administration	3
	HADM Elective	Elective	3
	Cognate	Electives	6

TOTAL: 60 credits

NOTE: Students who complete the associate degree in health administration and wish to continue toward the B.S. in health administration must have attained a 2.5 G.P.A. in the major

HUMAN SERVICES General Education

	Dept. and No.	Description of Course	Credits
Area I	Electives	Electives	6
Area III	ENGL 107	Composition	3
	Comm. 100	Public Speaking	3
	CMPS 104 *	Computing for Business & Social Sciences	3
Area IV	Humanities	Electives	9
Area V	T/RS 121 - Phil. 120	Theology I - Intro. to Philosophy	6
	T/RS 122 or Phil 210	Theology II or Ethics	3
Free Area	Electives	Electives	6
Major/Cog	nate		
-	HS 111	Introduction to Human Adjustment	3
	LIC 112	Human Carvina Cyatama	2

HS 111	Introduction to Human Adjustment	3
HS 112	Human Service Systems	3
HS 241	Case Management & Interviewing	3
HS 242	Counseling Theories	3
HS Elective	Elective	3
Cognate	Electives	6

TOTAL: 60 credits

NOTE: Students who complete the associate degree in human services and wish to continue toward the B.S. in human services must have attained a 2.5 G.P.A. in the major

POLITICAL SCIENCE PUBLIC ADMINISTRATION

To earn the Associate of Science degree in Political Science or Public Administration, the student must successfully complete 60 semester hours of credit. Of these, 42 credits must be earned in the Liberal Arts, according to a prescribed plan covering the humanities, philosophy, theology religious studies, social/behavioral sciences, and natural sciences/mathematics. Twelve additional credits must be earned in the major field. The remaining six semester hours are allotted to free electives in either the area of specialization or any other field. An outline of the degree credit requirement is provided below.

Credits Required by Area of Study

Area I	Natural Science	(Biology; Chemistry; Mathematics; Physics)	6
Area II	Social/Behavior	(Business: Economics: Human Services: Psychology	:

^{*} Recommended courses

		Criminal Justice; Pol/Sci.; Sociology)	9
Area III	Communication	(ENGL 107 and COMM 100, plus one elective)	9
Area IV	Humanities	(Fine Arts; History; Literature)	9
Area V	Philosophy & T/RS	(PHIL 120 and T/RS 121; Phil. 210 or T/RS 122)	9
Free Area	Electives	,	6
Maior	Electives		12

TOTAL: 60 credits SOCIOLOGY **General Education**

Dept. and No.		Description of Course	Credits
Area I	Nurs. 100 *	Family Health	3
	Nat. Sci./Math	Elective	3
Area II	Psych. 110 - Elective	Fundamentals of Psychology - Psych. Elective	6
	HS 241 * or	Case Management &Interviewing	2
	HS 112 *	Human Service Systems	3
Area III	Comm. 100	Public Speaking	3
	ENGL 107	Composition	3
	CMPS 104 *	Computing for Business & Social Sciences	3
Area IV	Humanities	Electives	9
Area V	T/RS 121 - Phil. 120	Theology I - Intro. to Philosophy	6
	T/RS 122 or Phil. 210	Theology II or Ethics	3
Free Area	Elective	Elective	3
Major/Cog	nate		
	Soc. 110	Introduction to Sociology	3
	Soc. 112	Social Problems	3
	Soc. 231	Urban Sociology	3

Elective

Sociological Theory

3

3

TOTAL: 60 credits

Major

Soc. 318

CERTIFICATES FOR ACADEMIC CREDIT

A Certificate Program is an educational opportunity to gain professional knowledge or training in a specific field before or after pursuing a degree

The courses a certificate student takes are part of the regular curriculum of the University. Most certificates are comprised of eight academic credit courses which are recorded permanently on a transcript in the Registrar's Office. Some certificates also include guided learning experiences

Students enroll in the undergraduate certificate programs with a variety of educational backgrounds ranging from having completed no college work to having earned a degree. A student enrolled in a degree program in Dexter Hanley College, with the exception of Liberal Studies majors, may apply for and earn a certificate concurrently.

In order to earn a certificate, a student must maintain at least a C average in the certificate courses and must successfully complete any other requirements as stipulated for a specific certificate program. Generally, no more than six credits may be transferred into a certificate program

Application to a certificate program is made through the Admissions Coordinator in Dexter Hanley College. After a student's application is approved, the student is accepted into the program and may then register. A student is responsible for conferring with an advisor before registering and as needed in the course of earning the certificate

In certain certificate programs, the required courses may be waived on the basis of prior experience.

^{*} Recommended courses

Certificates available include Advertising/Public Relations, Chemical Abuse Counseling, Computer Information Systems, Drama/Theatre, Gerontology, Health Administration, and Human Services. The Business/Management certificates are Level I: Business; Level II: Accounting, Personnel Management, and Pre-MBA

Students enrolled in a 24-credit certificate program, taking at least 3 credits per semester, may be eligible for financial aid. The Financial Aid Office should be contacted for further details

CERTIFICATE IN ADVERTISING / PUBLIC RELATIONS * (24 credits)

A program designed for adults who are seeking entry-level or advancement opportunities in advertising, promotion, and public relations

BASIC

Required Courses:

Comm. 120: Mass Communication Comm. 224: Newswriting

Comm. 225: Advertising

Comm. 312: Organizational Communication

Comm. 380: Advertising Practicum

Elective Courses (select four):

Comm. 210: Logical and Rhetorical Analysis Comm. 226: Writing for Public Relations

Comm. 328: News Editing

Comm. 331: Mass Media Management

ADVANCED

Required Courses:

Comm. 226: Writing for Public Relations

Comm. 227: Public Relations

Comm. 310: Mass Communication Law Comm. 410: Communication Theory and

Research

Comm. 380: Advertising Practicum Comm. 482: Directed Independent Study

Elective Courses (select four):

Comm. 210: Logical and Rhetorical Analysis Comm. 220: Responsibility in Communication

Comm. 311: Political Communication

Comm. 328: News Editing

Comm. 331: Mass Media Management

CERTIFICATE IN CHEMICAL ABUSE COUNSELING (24 credits)

A program designed for individuals interested in the field of substance abuse intervention. This program also has been approved by the Pennsylvania Chemical Abuse Certification Board for 45 hours toward certification, or 30 hours toward recertification. State Certification also requires three years" work experience in a treatment facility and a certifying oral examination

Required Courses:

HS 241: Case Management and Interviewing

HS 242: Counseling Theories

HS 421: Addictions

HS 422: Substance Abuse Education HS 423: Health and Legal Aspects

of Substance Abuse

Elective Courses (Select three courses):

HS 112: Human Service Systems HS 323: Psychiatric Rehabilitation

HS 331: Health & Behavior

HS 334: Marital & Family Counseling

HS 341: Group Dynamics

HS 441: Crisis Intervention

NOTE: Students who complete the certificate in chemical abuse counseling and wish to continue toward the associate or B.S. degree in human services must have attained a 2.5 G.P.A

CERTIFICATE IN COMPUTER INFORMATION SYSTEMS (24 credits)

This program is designed to introduce individuals to computers, and to expand the required math and programming skills needed for data analysis. The program targets:

- 1. Individuals presently in business who need to develop a greater familiarity with computer applications.
- 2. Individuals who are seeking to develop entry-level skills necessary for business computing

^{*} Some daytime courses will be required

Required Courses: Electives: (Select 2 courses):

MATH 142: Discrete Structures * CMPS 240: Data Structures

CMPS 134: Computer Science I CMPS 331: Systems Analysis and Design

CMPS 144: Computer Science II CMPS 341: Database Systems

CMPS 330: Information Systems Analysis CMPS 340: File Processing with COBOL

CERTIFICATES IN GERONTOLOGY* (24 credits)

A program designed to meet the needs of persons either currently employed in the field of aging by providing course work designed to increase and refine knowledge and practitioner skills (ADVANCED CERTIFICATE PROGRAM); or a program for persons with some previous college experience who are considering a career in the field of gerontology

BASIC

Electives (Select five courses): Required Courses:

Gero. 110:	Intro. to Gerontology	Gero.	112:	Social Problems of Aging
Gero. 230:	Social Policy & Aging	Gero.	212:	Aging & the Life Cycle
Gero. 232:	Aging & Death	Gero.	214:	Aging & Human Behavior

Gero. 216: Aging & The Community

Gero. 218: Health & Aging* * Gero. 220: Crime & Aging

ADVANCED

Required Courses: Electives (Select six courses):

Gero. 110:	Intro. to Gerontology	Gero. 112: Social Problems of Aging
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Gero. 218: Health & Aging Gero. 210: Aging in Anthropological Perspectives Gero. 212: Aging & The Life Cycle

Gero. 214: Aging & Human Behavior

Gero. 216: Aging & The Community

Gero. 220: Crime & Aging

Gero.230: Social Policy and Aging Gero. 232: Aging & Death

Gero. 382: Independent Study

Gero. 480, 481: Practicum in Gerontology

CERTIFICATE IN HEALTH ADMINISTRATION (24 credits)

A program for adults who seek to develop administrative skills in the field of health administration

Required Courses:

HADM 111: Introduction to Health Administration

HADM 112: Health Systems

HADM 213: Supervising Health Professionals

HADM 313: Health Administration

HADM 441: Issues in Health Care Administration

HADM: Elective HADM: Elective HADM: Elective

NOTE: Students who complete the certificate in health administration and wish to continue toward the associate or B.S. degree in health administration must have attained a 2.5 G.P.A

CERTIFICATE IN HUMAN SERVICES

^{*} Some pre-requisite courses may be required, as determined by math placement testing

^{*} Some daytime courses may be required

^{**}Recommended

(24 credits)

A program for individuals who seek to develop skills in and familiarity with human services systems and interventions.

Required Courses:

HS 111: Introduction to Human Adjustment

HS 112: Human Services Systems

HS 241: Case Management and Interviewing

HS 242: Counseling Theories HS 441: Crisis Intervention

HS: Elective HS: Elective HS: Elective

NOTE: Students who complete the certificate in human services and wish to continue toward the associate or B.S. degree in human services must have attained a 2.5 G.P.A

CERTIFICATE PROGRAMS IN BUSINESS /MANAGEMENT LEVEL I

The Level I certificate program in Business will comprise 18 credits, with no more than 6 credits allowed by way of transfer from another college. The Level I program is open to any qualified students (i.e., those who meet DHC entrance requirements)

BUSINESS

(24 credits)

Mgt. 161: Introduction to Business

Acc. 253, 254: Financial Accounting -- Managerial Accounting Eco. 153, 154: Principles of Microeconomics, Macroeconomics

Mgt. 251: Legal Environment of Business

CMPS 104: Computing for Business & Social Sciences

Free Elective (Advisor Approved)

LEVEL II

Level II certificate programs will comprise 18-24 credits, with no more than 6 credits allowed by way of transfer from another approved college. Level II programs are open only to students who have achieved junior status, and have completed the appropriate Level I program, or to post-baccalaureate self-improvement students. In the latter case, students may be required to take pre-requisite courses for any required courses in the certificate program

The Level II certificate in Accounting, plus an earned baccalaureate degree, prepares the student to sit for the Pennsylvania C.P.A. examination. In New York state and New Jersey, six additional credits in finance are required.

ACCOUNTING

(24 credits)

Acc. 251, 252: Financial Accounting I, II Acc. 363, 364: Federal Taxes-Auditing

Theory

Acc. 361, 362: Intermediate Accounting I, II Acc. 461, 470: Cost Accounting-Law for Accou

PERSONNEL MANAGEMENT

(24 credits)

Mgt. 351: Principles of Management I Mgt. 362: Employee-Management

Relations

Mgt. 352: Principles of Management II Mgt. 460: Organization Theory Mgt. 361: Personnel Management Mgt. 471: Group Dynamics

Free electives: Six credits, approved by advisor.

PRE-MBA (24 credits)

Mgt. 251: Acc. 210: Survey of Managerial &Financial Legal Environment of

Business

Accounting (or ACC. 253 &254) Mgt. 351: Principles of Management I

Econ. 210: Essentials of Economic Theory QMS 210: Quantitative Methods I (or Math 106 & 107)

(or Econ. 153 & 154)

QMS211: Quantitative Methods II Fin. 351: Introduction to Finance

Mkt. 351: Intro. to Marketing (or QMS 251 &351)

TELECOURSES

Telecourses meet the needs of those DHC students who have difficulty attending classes on campus. Courses are normally shown one hour per week on the regional PBS affiliate, WVIA-TV. Meetings with instructors are reduced from the typical three hours per week. These courses are geared to highly motivated students capable of doing independent work. (Courses offered vary each semester.)

CREDIT FOR ACADEMICALLY RELEVANT LEARNING

Hanley College provides opportunities for students to earn credit for university level learning that takes place outside the classroom setting. A maximum of 30 credits will be awarded for extra institutional learning, excluding military credit. This includes CLEP, PEP, ACT, portfolio credit, DANTES, and PONSI credit. (Advanced placement credit is considered separately.)

College-Level Examination Program (CLEP)

College-Level Examination Program has been established to enable students of all ages to earn college credit by examination. Through the CLEP tests, applicants may gain credit in many academic subjects applicable to their degree programs. Individuals who wish further information about these examinations should consult the Hanley College Coordinator of Advisement or write directly to the Program Director, College-Level Examination Program, College Entrance Examination Board, Box 1824, Princeton, N.J. 08540

Assessment of Prior Learning

Many students have acquired "experiential learning" outside a formal college or university classroom in jobs, military service, or nonaccredited institutions. One who wishes to have this learning assessed for possible credit will enroll in the one-semester course, Educ. 101 (see pg. 179) to document relevant experiences and the knowledge gained from them for departmental review. Faculty evaluators from the appropriate department(s) will evaluate the portfolio and may recommend a credit award for the student's learning. For further information about this program, contact a Hanley College advisor (941-7580).

ACADEMIC REGULATIONS

Sequences of Study/Prerequisites

Students enrolled in degree programs in Hanley College are strongly advised to follow as closely as possible the sequence of studies listed for their chosen major. So students may be assured of having the adequate background for the successful completion of certain courses, prerequisite courses are sometimes listed. The course description in the earlier pages of this Bulletin contain the necessary information on prerequisites. In some cases practical experience may compensate for the lack of prerequisite courses, but such requests for exceptions must be approved by the departmental advisor. Students should also check with their departments for specific scheduling information on course sequences in their major. Since not all required courses are offered each semester, careful planning should be done in advance to assure smooth progress through the degree program.

Hanley College students should consult pages 23 - 27 of this catalog for academic regulations common to all four undergraduate colleges of the University. They should be aware of the following policies which relate specifically to those enrolled in DHC:

Registration Limitations

A student registered in Dexter Hanley College may take courses in the other colleges of the University on a space available basis, provided the student meets the conditions for registration as set forth by the Deans and announced prior to each registration period

Deans" List

Since many students in Hanley College are enrolled on a part-time basis, the Deans List criteria for this school differ somewhat from those described on page 25. Students in DHC may earn Deans List distinction provided they carry at least two courses (at least 6 credits) during the semester and earn at least a 3.50 G.P.A. with no grade code of NG, I,D+, D, F or U. The Deans List is published at the end of the fall and spring terms each year

CAMPUS LIFE

Hanley students should consult the Dexter Hanley College Student Handbook for information about such practical matters as I.D. cards, parking permits, and opportunities for commuter participation in various aspects of University life. DHC participation in campus government is provided though the Hanley College Student Council and through Hanley College representation on the University Senate.

TUITION AND FEES 1994-95

Hanley College Tuition: (full-time) \$362. per credit (part-time) \$302. per credit (all Intersession '95 courses) \$362. per credit University Fee for Hanley Students: (full-time) \$335. per semester (part-time) \$35. per semester 1.D. Photo \$20.

Schedule Change Fee \$ 15.

Health Service Fee (full-time) \$ 65. per semester

Recreational Complex Use Fee

(optional for part-time students): \$ 65. per semester Application Fee for Hanley Students: \$ 15

Orientation Fee for Hanley Students: \$ 20.

Prior Learning Portfolio Review Fee: \$ 30. per credit N.L.N. Mobility Profiles: \$ 40. per booklet

plus \$25. test administration fee per exam

Full time students in Dexter Hanley College who can justify having the recreational, athletic (both parts of the University fee), and health services fee waived, may petition the Dean of DHC for a waiver. This must be done each semester.

Full time students who drop to part time status after the 100% refund deadline will not have an adjustment in tuition and fees for the semester.

Other course and service fees common to all undergraduates are found in the next section of this Catalog, pg. 232.

FAMILY PROGRAM

Whenever at least one dependent child from a family or a spouse is in attendance at the University as a full-time undergraduate student, a special family tuition reduction policy will apply for a parent/spouse enrolled as a full-time student in Dexter Hanley College. The amount of Tuition Credit that will be awarded each semester will be calculated after other financial aid has been applied by the Treasurer's Office personnel. Forms and additional information may be obtained from the Treasurer's Office or from Hanley College.

TUITION POLICY FOR SENIOR CITIZENS

Persons 60 years of age or older may audit undergraduate courses at the University through Dexter Hanley College at no tuition charge, on a "space-available" basis. Fees and other costs of courses (e.g., textbooks) are assessed at the normal rate. The student must complete the senior citizen tuition waiver form and the registration process, including returning the remittance form

Persons 60 years of age or older may take undergraduate courses for credit through Dexter Hanley College at 50 percent tuition. These reductions are applicable only after the person has applied for and received any form of financial assistance normally available (e.g., State and Federal assistance, and employer reimbursement). The student must complete the senior citizen tuition waiver form and the registration process, including returning the remittance form

Senior citizen students must complete the full application process, including submission of all official transcripts.

FINANCIAL AID FOR HANLEY STUDENTS

At the present time several forms of financial aid are available for students enrolled in Dexter Hanley College. Eligibility for all grants, loans, and scholarships requires the student to file a formal University of Scranton Financial Aid Application, which includes all necessary financial and tax information. Filing deadline is generally April 15. Contact the Financial Aid Office for details

Application forms for all scholarships are available in the Dexter Hanley College office in April. The University's Financial Aid office can also provide information about loan programs; additional information may also be found on p. 233

Pennsylvania Higher Education Assistance Agency

Hanley College students are eligible for PHEAA grants if they are taking twelve credits a semester; they are eligible for PHEAA loans if they are taking at least six credits

Pell Grants

Hanley students taking at least three credits a semester are eligible to apply for federal grants administered under the PELL GRANT program

Dexter Hanley Scholarship

Limited partial tuition scholarships are available for Hanley students, including new students, who demonstrate a high degree of need as well as academic competence

Hanley College Student Council Scholarship

This limited tuition scholarship is available only to Hanley College students with demonstrated financial need, who have completed 45 credits with a 3.00 or higher GPA, and are not eligible for any other financial assistance.

Robert L. McDevitt Scholarship

Income from a fund established in 1977 provides limited tuition scholarship to Hanley College students. The fund was established by Robert L. McDevitt, a Georgetown University classmate and longtime friend of Father Dexter Hanley, S.J., who served as President of the University from 1970 to 1975.

Newcombe Scholarship for Mature Women

The Charlotte W. Newcombe Foundation provides limited tuition scholarships for mature women students completing their education in preparation for a second career. These scholarships, available to women 25 years of age or older, who have completed at least 60 credits, are available in any of the schools of the University of Scranton, but obviously each year most are awarded to women enrolled in Dexter Hanley College

Oppenheim Family Award

This fund was established by the Oppenheim Family, who for many years owned and operated Oppenheim's Department Store and its predecessor, The Scranton Dry Goods Co. Income from the fund is used primarily for part-time, non-traditional students who need financial assistance

Accounting Scholarship

The Northeast Chapter of the Pennsylvania Society of Public Accountants has endowed a scholarship fund awarding one limited tuition scholarship each year to an accounting major in Dexter Hanley College.

Hanley College Deans" Loan Fund

The Hanley College Deans' Loan Fund is not a scholarship. It is a source of loans to allow adult and non-traditional students, who experience unexpected financial difficulties, to complete their education and fulfill personal and professional goals

SAINT PIUS X SEMINARY

In cooperation with the Diocese of Scranton and its Bishop, The Most Reverend James C. Timlin, D.D., the University offers an academic formation program which leads to a B.A. in Philosophy.

Courses are offered, such as, "The Philosophy of Aquinas," "Metaphysics," "Issues in Philosophy and Theology," etc., that especially prepare the seminarian for his future theological studies. In 1976, the University established the Saint Pius X Chair of Theology. Seminary faculty occupy this "teaching" Chair in the department of Theology. These courses provide the seminarian with a basic introduction to the Catholic theological tradition. The Language department, too, offers courses in Latin, biblical Greek, and Hebrew.

Bishop J. Carroll McCormick, D.D., then Ordinary of the Diocese of Scranton, responding to the aims and objectives of the National Conference of Catholic Bishops, on July 13, 1970, entered an agreement with the University of Scranton and the diocesan-owned seminary for student candidates to become full-time students of the University, while maintaining residence at the Seminary. At the Dalton campus, the seminarian's academic life is complemented by programs of personal and spiritual development. Through a series of supervised ministerial experiences, the seminarian is introduced to the life of the diocesan priest

Since the inception of this cooperative agreement, over 200 graduates of the University have been accepted into graduate schools of theology in the United States and Europe. Of that number, some 100 have been ordained for service to the Archdiocese of Washington, and the Dioceses of Allentown, Camden, Harrisburg, Scranton and Trenton, among others

College seminarians matriculate as full-time students in both the College of Arts and Sciences and Dexter Hanley College. The latter college of the University allows students who already have undergraduate degrees to pursue a two-year pre-Theology program by providing them the opportunity to take courses in Philosophy, Religious Studies (through the Saint Pius X Chair of Theology), and the Classical and Biblical Languages. This special program offers the student the best of both worlds. The seminarian has ready contact with his peers and professors at the University and is able to take advantage of all the educational and developmental resources available on such a campus. At the same time, he has the atmosphere and resources of the seminary formation program at St. Pius X to nurture and promote his vocation to the diocesan priesthood. During the 1993-94 academic year, St. Pius X Seminary was listed as the tenth largest collaborative program in the country.

Current enrollment includes students representing the Archdioceses of Baltimore and Washington, and the Dioceses of Allentown, Wilmington, and Scranton

SPECIFIC COURSE REQUIREMENTS

SEMINARIANS MAJORING IN PHILOSOPHY:

In fulfillment of the general requirements of the philosophy department, the following courses are required by St. Pius X Seminary:

Philosophy

Phil. 120	Introduction to Philosophy *	Phil. 222	Modern Philosophy *
Phil. 210	Ethics *	Phil. 310	Epistemology *
Phil. 215	Logic	Phil. 311	Metaphysics
Phil. 220	History of Ancient Philosophy *	Phil. 411	Philosophy of Aquinas *
Phil. 221	History of Medieval Philosophy*	Phil. 434	Issues in Phil. &Theo.*

Theology (courses taught by faculty holding the St. Pius X Chair)

Theology I-II "	1/RS 216	western i neological
		Movements *
Pauline Letters (available)	T/RS 220	Moral Theology *
Gospels and Jesus (available)	T/RS 323	Signs and Symbols *
	,	Pauline Letters (available) T/RS 220

Communication

Engl. 107 Composition Comm. 100 Public Speaking

Language

Latin 111-112 Elementary Latin * Latin 211-212 Intermediate Latin (recommended)

Greek 113-114 Biblical Greek * HB 101-102Elementary Hebrew

(available)

Spanish 101-102 Elementary Spanish (recommended)

FOUR-YEAR COLLEGE PROGRAM /Required Courses (suggested sequence):

FALL SPRING

FRESHMAN:

Phil. 120 Intro. to Philosophy Phil. 210 Ethics
T/RS 121 Theology I T/RS 122 Theology II
Latin 111 Elementary Latin Latin 112 Elementary Latin

Engl. 107 Composition

SOPHOMORE:

Phil. 220 Hist. Ancient Philosophy Phil. 221 Hist. Medieval Philosophy

Phil. 215 Logic Comm. 100 Public Speaking

Latin 211 Intermediate (recommended) Latin 212 Intermediate (recommended)

T/RS 323 Signs & Symbols

JUNIOR and/or SENIOR:

Phil. 222 Modern Philosophy I (even years) Phil. 311 Metaphysics Phil. 310 Epistemology (even years) Phil. 411 Aquinas (even years)

Greek 113 Biblical Greek (even yrs.) Phil. 434 Issues in Phil. & Theo. (odd yrs.) Span. 101 Elementary Spanish I T/RS 216 Western Theological Movements

T/RS 230 Moral Theology (even yrs.)
Greek 114 Biblical Greek (odd yrs.)
Span. 102 Elementary Spanish II

PRE-THEOLOGY PROGRAM/Required Courses (suggested sequence):

Phil. 120 Intro. to Philosophy Phil. 210 Ethics

Phil. 220 Hist. Ancient Phil. Phil. 221 Hist. Medieval Phil.

T/RS 121 Theology I T/RS 122 Theology II

SECOND YEAR:

Phil. 222 Modern Philosophy I Phil. 311 Metaphysics (recommended)

T/RS 323 Signs & Symbols T/RS 216 Western Theological

Movements

Either FIRST or SECOND YEAR:

Latin 111 Elementary (odd yrs.) Phil. 411 Aguinas (even yrs.)

Greek 113 Biblical Greek I Phil. 434 Issues in Phil. &Theo. (odd yrs.)

Latin 112 Elementary (even yrs.)

Greek 114 Biblical Greek II

T/RS 230 Moral Theology (even yrs.)

*Pre-theology program (2 years; 51 credits)

THE GRADUATE SCHOOL

Thomas P. Hogan, Ph.D., Dean

The Graduate School offers advanced study in a variety of professional fields as well as in the humanities and sciences. Its students are drawn from throughout Northeastern Pennsylvania, several surrounding states, and from over 20 foreign countries. The students are pursuing master's degrees, various types of certifications, and personal enrichment

Master"s Degree Programs

The University offers master's degrees in the 19 different programs listed below. Programs for Supervision and teacher's certification are also available.

Business Administration (MBA) Reading Human Resources Administration History Health Administration (MHA) **English** Rehabilitation Counseling Chemistry Community Counseling **Biochemistry** School Counseling Clinical Chemistry **Elementary Education** Software Engineering Secondary Education Physical Therapy (MPT)

Elementary School Administration Theology

Secondary School Administration

Admissions Requirements

Applicants for admission should submit a completed application form, \$35 application fee, three letters of reference, and official copies of their transcripts

In addition to the requirements listed above, applicants to the MBA program must submit their Graduate Management Admissions Test (GMAT) score. Those applying for the Software Engineering program should submit either the GMAT or the GRE (Graduate Record Examination) general test. Personal interviews are required for those applying for admission to programs offered through the Department of Counseling and Human Services and the Department of Health Administration and Human Resources

Foreign students whose native language is not English are required to demonstrate their proficiency in English by achieving a score of at least 500 on the Test of English as a Foreign Language (TOEFL). Some programs may require a higher score. A score of 575 is needed for admission to the Departments of Counseling and Human Services, and Health Administration and Human Resources.

All application documents should be on hand in the Graduate Office at least one month before the intended starting term. International students should have their credentials in the Graduate Office at least three months before the term that they would like to begin their studies. Students may begin their studies in August, February, or June. Software Engineering students can only begin their studies in the Fall semester.

Graduate Assistantships

Approximately 55 graduate assistantships are available each year. Students receiving an assistantship are entitled to a waiver of tuition and fees plus a stipend

Applicants for graduate assistantships must have an application for admission form on file in the Graduate Office. Awards are made on the basis of the student's academic record, experience, and promise as a graduate student. International students are not eligible in their first semester

Graduate students can also apply for GSL Student Loans and Federal Work-Study

Scheduling

Classes are offered from 4:30 p.m. - 7:10 p.m., and 7:20 p.m. - 10:00 p.m., Monday through Thursday in the Fall and Spring terms. Almost all courses meet one night per week. Summer and Intersession classes are also available.

Correspondence

For additional information, please write, call or FAX

Address:

The Graduate School University of Scranton Scranton, Pennsylvania 18510 - 4631

Telephone numbers:

(717) 941-7600 or 1 - 800- 366-4723

FAX: (717) 941-4252

Outside the Classroom

Much of a student's ed-ucation takes place outside the classroom. At the University of Scranton, some of the formal academic learning process takes place off campus in the various internship programs; on campus there are available traditional extracurricular activities. In many instances, these activities merit and receive academic credit. They also provide further means by which potential be-comes achievement

EXTRACURRICULAR ACTIVITIES

THEATRE

The tradition of the theatre and dramatics in Jesuit colleges goes back four hundred years. As evidenced by the award of the Pulitzer Prize in Drama to Jason Miller, a 1961 graduate of the University, at Scranton this tradition thrives. Students write and stage their own dramatic productions, often for academic credit in English and Communication, or in place of the traditional course

Beyond these individual efforts, the University Players, a co-curricular activity of the Department of English, each year present five major productions and an annual Workshop of student written/directed short plays. In the past two years, well over 100 students participated in productions that included *Talk Radio, The Normal Heart, Marat/Sade, Rosencrantz and Guildenstein are Dead*, and *Moon Children*. Previous seasons have ranged from *Equus* to *Opedipus Rex*, from *Death of a Salesman* to *The Fantasticks*.

During the summer of 1984, the Oscar-winning British actress, Glenda Jackson, was a resident visiting professor. Her acting seminar used a Shakespearean play and a modern American drama as the primary teaching vehicle. Half of her students were from the University of Scranton, the other half from universities across the country. A similar venture occurred during Intersession (January term) 1988, when noted actor Richard Harris visited the University, and produced, with a largely University cast, his *Julius Caesar: A Work in Progress*.

Participation in the Players is open to all students, regardless of major. Interested students should contact the Director of Theatre in the McDade Center for the Literary and Performing Arts, Room 103.

DEBATE

The tradition of debate in Jesuit colleges and high schools is also strong at the University of Scranton. The Noel Chabanel Council of Debate gives interested students an opportunity to compete in debate and speech events on the intercollegiate level. University of Scranton debaters travel thousands of miles each year nationwide; the 1988 team took first honors in the finals of the Pennsylvania College Energy Debates

PUBLICATIONS

The University offers a wide choice of journalism opportunities

The *Aquinas* is the weekly All-American campus newspaper and positions are available to members of all classes.

Esprit is the award-winning campus literary journal

History students have the opportunity to have their articles published in *Restrospect*, journal of the Royals Historical Society.

The yearbook, Windhover, is annually produced by the students

THE UNIVERSITY BANDS

The Bands include a Concert Band, a Jazz Band, and a Pep Band which plays at sports events. The Bands draw their membership from the more than 200 band musicians who attend the University of Scranton.

STUDENT CLUBS

Biology Club History and Public Affairs Society

Business Club Students for Life Political Science Club Psychology Club

Ski Club Schrodinger Chemical Society
Pre-Law Society International Students Association

Social Science Club

Physical Therapy Club

Computer Science Club

Communications Club

College Democrats

College Republicans

ROTC Rangers

Bowling Club

Veterans Club Women's Business Honor Society

India Club Nursing Association
Philosophy Forum University Singers

Student Education Association Society for Advancement of Management

Horticulture Club Human Resources Association

Health Adminstration Society

A Club of the Year Award is annually presented to that student organization which most clearly exemplifies the University spirit, through educational and social activities for club members and the University community. Winner of the Award for the past three years has been the Physical Therapy club.

ATHLETICS

The University is a Division III member of the National Collegiate Athletic Association (NCAA), the Middle Atlantic States Collegiate Athletic Conference (MAC), and the Eastern College Athletic Conference (ECAC).

MEN"S VARSITY SPORTS WOMEN"S VARSITY SPORTS

BasketballCross CountryField HockeySoftballBaseballGolfTennisCross CountryTennisSoccerBasketballSoccerWrestlingLacrosseVolleyballSwimming

Swimming Ice Hockey

ACADEMIC ALL- AMERICANS

The student-athlete ethic expressed in the NCAA Division III is epitomized by the University of Scranton's athletic department, whose present and former athletes trail histories of success on the field of competition and in the classroom

The Lady Royals and Royals have continued into the 1990's a legacy of achievement that was unequaled during the past decade. In the past 15 years 27 individual Academic All Americans were honored and 112 NCAA Postgraduate Scholarships were issued. All American honors were earned by individuals on 29 occasions; 10 individual conference champions were crowned; 44 teams won Middle Atlantic Conference titles, while 40 teams and 16 individuals qualified for NCAA postseason play.

In 1993, Matt Cusano, a senior center on the Royals basketball team, was elected to the GTE National Academic All-America first team. The women's swim team and the men's and women's cross country teams were also honored with national Academic All-America team awards

A WINNING TRADITION

The Royals and Lady Royals athletic teams enjoy success in nearly all 18 varsity programs. Particularly noteworthy are the meri's and women's soccer and basketball teams, who perennially challenge for conference and NCAA national honors. Included in the gold and silver metal count are: NCAA national basketball championships for the Royals in 1976 and 1983; a Lady Royals national basketball title in 1985 and third place finishes in 1980,'87, and '93; four consecutive trips to the men's Final Four soccer tournament (1980-83); and four trips in seven seasons to the NCAA tournament for the Lady Royals soccer team. 1992 witnessed the meri's basketball team reaching the 1000th victory mark in the 75-year history of the program

Most recently, Scranton's women's basketball team advanced to the 1993 NCAA "Final Four" and captured third-place honors. In 1994, the team advanced to the NCAA "Elite Eight."

Individually, the Lady Royals basketball team promoted two players, Deanna Kyle (1985) and Shelley Parks (1987), to Player of the Year honors. Also receiving honors on the women's side were: three-time soccer All American Holly Spiech (1988-90), plus 2nd all-time scorer, Monica Davidson (1989); swimmers Cathy Hadley and Marilyn Bogusch were national qualifiers, with Bogusch earning All American honors; along with basketball All-Americans Laura Pikulski (1992) and Lynne Kempski (1993), and Jackie Dougherty (1994)

The Royals soccer program heads the All American count with 10 overall, including midfielder Joe Schmidt's election in fall '93. Also in 1993, basketball added two more All-Americans to its count, center Matt Cusano (first team) and guard Jason Hoppy (second). In golf, Will Carey III won All American honors in 1988.

Middle Atlantic Conference titles were won recently in: meri's basketball (1991, '93); women's soccer (1989, '90, '91, '92, "93); women's softball (1990 and '91); women's tennis (1990, '92); and the Lady Royals basketball team won a conference record 10th championship, and third in five seasons, in 1994. Also in '94, the 8-1 women's swim team captured four individual and four team relay titles in the MAC Championships

INTRAMURALS AND PHYSICAL EDUCATION

A year-long intramural program is in operation in the John J. Long Center and the new William J. Byron Recreation Complex, as well as activities outdoors. For the additional sports available in the Physical Education program, see the description given in the Departmental listing earlier in this bulletin.

STUDENT LIFE

STUDENT AFFAIRS -- The Student Affairs division is primarily concerned with extra-curricular and co-curricular experiences as they contribute to the overall development of students

Services, programs and activities are offered for and with students in order to assist students to maximize their growth and development during the collegiate experience

Student Affairs, as a professional field within higher education draws upon the human development movement and, more specifically, student development theory. One theorist who has made a major impact on student development theory and student affairs work is Arthur Chickering, author of a seminal work in student development entitled *Education and Identity*, published in 1969. Chickering defined seven "vectors of development." These vectors outlined the manner in which Chickering theorized that college students grew and developed during the college years

The vectors included Achieving Competence (intellectual, physicalmanual and social/interpersonal); Managing Emotions; Becoming Autonomous; Establishing Identity; Freeing Interpersonal Relationships; Clarifying Purposes, and Developing Integrity

Specifically, Student Affairs at the University of Scranton concerns itself with providing programs and activities that promote student development. The work of student affairs takes place in the counselor's office and the classroom, on the athletic field or court, in meeting rooms and residence halls, through student organizations and in a host of informal settings across the campus

Student development is the joint responsibility of the student and the University. Both must be concerned with the development of individuals and of the student body. In the final analysis, this is the responsibility of the University as an educational setting and of students as an important component of that educational environment. They are both resources and end-products of the University's work.

The following areas or offices perform specific work in relation to the goals and objectives of the student affairs division.

CAMPUS MINISTRY -- As a Catholic institution, the University of Scranton is dedicated to promoting continued growth in personal maturity and freedom, especially as religious believers and persons dedicated to service of the human family. The specifically spiritual ministry of the entire University community is coordinated by the office of Campus Ministry assisted by the Jesuits, other clergy, University staff members and students themselves. Regular daily and Sunday liturgies and other special services are conducted in the Madonna della Strada chapel, St. Ignatius chapel, and in dormitories in which the community both expresses and deepens its religious vision. Spiritual counseling is available from the staff or the Jesuits, especially the Dormitory Counselors. These people make available their training, experience and friendship to promote greater self awareness, maturity, integration and ability to pray, as well as to identify obstacles to these and other goals

Persons seeking time for quiet reflection, directed prayer or an experience of Christian community are invited to participate in frequent programs at nearby Chapman Lake. Campus Ministry also sponsors lectures and discussions on vital issues, organizes special events to heighten religious awareness, assists in services to the larger community and is responsible to act as spokesman for justice within the University. In conjunction with Rev. Rees Warring of Elm Park Methodist Church and other local non-Catholic clergy, students of non-Catholic faiths are encouraged to help plan an expansion of services to themselves

COUNSELING CENTER -- The Counseling Center serves all students of the University in the personal and interpersonal dimensions of their lives. Located on floor 2F of the Gallery Building, the Center offers individual and group counseling concerning a variety of issues such as: dating, family relationships, depression, anxiety, grieving, self-esteem and self-image, eating disorders, sexual abuse or harassment, drug and alcohol concerns, stress management, assertiveness training, major and career decision-making, and values clarification

The Center also serves as a liaison with other offices and agencies (both on and off campus) regarding academic, career, and mental health-related concerns. In addition, the Counseling Center offers outreach programs to enhance the lives of students and to reduce impediments to achieving their full potential.

The Counseling Center staff includes clinical, counseling and pastoral psychologists, certified counselors, and a licensed social worker. Interviews are on a voluntary basis and are confidential and without charge to the student. The Center is open Monday through Friday from 8:30 a.m. to 4:30 p.m. Later evening sessions are available Monday through Thursday by appointment only. In addition, emergency crisis intervention is available from September through May (while classes are in session) on a 24-hour basis via contacting Public Safety (941-7777) to access the counselor-on-call. Stop by the Counseling Center or call (717) 941-7620 to make an appointment

DRUG AND ALCOHOL INFORMATION CENTER -- The Drug and Alcohol Information Center and Educators (DICE Office) is located in the Wellness Center

The office serves as a drop-in center where resource materials are available regarding alcohol and other drugs. Throughout the year, the DICE Office sponsors several educational seminars, lectures, residence hall presentations, and many alcohol-free events which are designed to increase drug and alcohol awareness among students, and the University Community

The DICE Office is staffed by a professional in psychiatric nursing, a graduate assistant, and 30 peer educators (students helping students). The Center is open Monday through Friday from 8:30 a.m. to 4:30 p.m. No appointment is necessary. For more information, call (717) 941-4253

ACADEMIC ADVISING CENTER --The Academic Advising Center, located in 309 St. Thomas Hall, serves all freshmen in the College of Arts and Sciences and the College of Health, Education, and Human Resources. Staffed by faculty advisors from a wide variety of disciplines in both colleges, the Academic Advising Center offers a comprehensive program of academic advising throughout the freshman year. In addition to individual advising, the Academic Advising Center also offers specialized advising seminars for students in the general areas of Humanities, Natural Science, and Social Science. Faculty advisors are available to students from 8:30-4:30 Monday through Friday; they provide assistance with preregistration, drop-add, general education course selection, declaration of major (for general area studies students), and assessment of academic performance and goals.

THE SOM ACADEMIC ADVISING CENTER --The Academic Advising Center, located in O'Hara Hall Suite 406, serves all students in the School of Management. Staff Advisors are available from 8:30 AM to 4:30 PM, Monday through Friday, to provide assistance with pre-registration, major and general education course selection, and assessment of academic performance and goals. Specialized seminars are presented for the undeclared business area freshmen. These seminars provide the information necessary for a student to make an informed decision as to a choice of major. They also emphasize the University resources available to all students in planning for a business career. The seminars are mandatory for undeclared business area students and open to all SOM students and others interested in SOM programs

THE LEARNING RESOURCES CENTER --The Learning Resources Center is located on the main floor of Alumni Memorial Hall. The LRC was established to help students accomplish their academic goals at the University. The LRC provides services to supplement those offered in the classroom. The Center is staffed by professional staff and peer tutors. LRC staff, utilizing individualized, group, and computer-assisted instruction, provide assistance with oral and written communication skills, study skills, critical thinking skills, academic evaluation and study help in specific courses. Academic services are available for diagnosed learning disabled students. A Reading Specialist is also on staff for testing and consultation. Assistance is available on a drop-in or referral basis.

CAREER SERVICES --is located on the second floor of the Gallery and is open from 8:30 AM - 7:30 PM Monday through Thursday and from 8:30 AM - 4:30 PM on Friday. Career Services staff advise students on career development issues, assist students and graduates in securing employment, and help students plan for further academic work following graduation. The office also conducts the on-campus employment interview program, administers the accounting

internship program, and helps in locating off-campus part-time employment and internship opportunities.

During the academic year, the office presents workshops on resum@interview preparation and career planning. A career library containing occupational information and graduate school catalogs is also available.

ADMISSION

ADMISSION, EXPENSES, FINANCIAL AID

The University of Scranton is a selective institution in the Jesuit tradition. It makes available to qualified students an excellent education at a reason-able cost, and it offers significant programs of financial aid.

The Admissions Committee of the University of Scranton will make the final decision on applications for admission. In reaching this decision, the committee will consider a number of factors:

Demonstrated evidence of a student's academic ability, intellectual curiosity, strength of character and motivation.

Student's high school record, rank in class and extracurricular activities

Scholastic aptitude test scores and recommendations

STEPS IN MAKING APPLICATION

Request for an application form and all correspondence dealing with admission to the College of Arts and Sciences, the College of Health, Education, and Human Resources or the School of Management should be directed to α

THE DEAN OF ADMISSIONS UNIVERSITY OF SCRANTON SCRANTON, PENNSYLVANIA 18510 Telephone: (717) 941-7540.

A non-refundable fee of \$30.00 should accompany the application

Students should apply during the first semester of their senior year of high school. July 1 is the final date on which applications for Fall term admission will be accepted

The first two parts of the application form should be completed and the entire form given to the principal or guidance counselor of the high school who will forward high school grades and the completed form to the University.

The Scholastic Aptitude Tests are required of all applicants. These tests should be taken during junior year and/or in November, December or January of senior year. Achievement Tests are not required. Arrange for these tests by contacting your high school guidance counselor or by writing to: The College Entrance Examination Board, Box 592, Princeton, New Jersey 08540

A non-refundable class reservation fee of \$100.00 is required of all accepted applicants. In addition, accepted resident freshmen will make a non-refundable room deposit of \$100.00 upon notice from the Dean of Admissions

The University of Scranton is a Catholic, Jesuit educational institution serving men and women, and is committed to equal opportunity in employment and education for all persons without regard to race, color, creed, ancestry, sex, national origin, handicap, or age

REQUIRED HIGH SCHOOL PREPARATION

Students desiring to enroll in any of several undergraduate programs offered by the University must have completed a total of 16 or more high school academic units covering grades 9-12. The term "unit" means a high school course taught four or five hours weekly throughout an academic year of 36 weeks duration. Unit requirements and preferred distribution of secondary courses are given in the following table:

COLLEGE PROGRAM CHOICE HIGH SCHOOL UNITS

Business,
Science or Education or

	Arts		Engineering		Social Science	
	Req.	Pref.	Req.	Pref.	Req.	Pref.
English	4	4	4	4	4	4
History & Social Science	2	3	2	3	2	3
Foreign Language	2	2+	2	2+	2	2+
College Preparatory Mathematics	3	4	4	4	3	4
Science	1	2 +	3	3 +	1	2+
Other acceptable units	4	1		4		
TOTAL	16+		16+		16+	

Applicants without high school credit in modern languages may be accepted if they present 16 acceptable units. A single year of language in high school will not be counted as a unit to satisfy the requirements for admission

Mathematics include elementary, intermediate, and advanced algebra, plane and solid geometry; trigonometry, analysis, and any other college preparatory course. Applicants for science and engineering programs must include trigonometry and must have maintained an 85% average in each mathematics course. Applicants for the nursing programs should include chemistry and biology in their high school program

Science includes biology, chemistry, physics, and other college preparatory courses. Preengineering applicants are urged to include physics in their high school preparation

ADVANCED PLACEMENT

Applicants who have taken college level courses may be given advanced placement or advanced placement with credit for these courses. Students who have been accepted for admission and desire to apply for such placement must take the Advanced Placement Examination offered in May by the College Entrance Examination Board, Princeton, New Jersey 08540. Ordinarily a score of "3" (non-science) or "4" (math/science) will insure advanced placement with credit

COLLEGE LEVEL EXAMINATION PROGRAM

Through the CLEP tests, taken before admission, applicants may gain college credit in most academic subjects for work done outside the classroom in jobs, military service, etc., or in non-accredited institutions. For further information contact: College Level Examination Program, Box 1824, Princeton, New Jersey 08540. Students wishing to be considered for CLEP credits should take the CLEP examinations and have the results forwarded to the Dean of Admissions

ACADEMIC DEVELOPMENT PROGRAM

Applicants who fail to meet all of the admission requirements may be considered for a special freshman year Academic Development Program concentrating on English, logical thinking, reading skills, study habits, as well as work in the student's major field. Satisfactory completion of the ADP program will insure the student normal sophomore standing

HANDICAPPED STUDENTS

The University of Scranton complies with all applicable laws and regulations with the respect to the accommodation of handicaps and disabilities as these terms are defined in the law. The University will provide reasonable accommodations so students can fully participate in curricular and extracurricular activities. Students who need assistance should contact the Affirmative Action Office (717) 941-7580 on a timely basis

TRANSFER STUDENTS

Students who wish to transfer to the University must submit an application and the usual credentials (official high school record, SAT scores and transcript(s) from the college(s) attended). At the discretion of the Admissions Committee, students from another accredited college may be admitted provided: (1) The courses to be transferred are equivalent to courses offered at the University of Scranton; (2) the academic average of the candidate is (2.5)"C plus," (3) certification of honorable dismissal is presented from the previous college. No credit will be given to courses with grades less than "C". Students transferring from other institutions shall be required to make up curricular subjects prescribed in the course which they are to follow at the University of Scranton. A minimum of 63 credits at the University of Scranton is required of transfer students for degree eligibility. Special orientation sessions are held for transfer students. It should be noted that some

departments require that at least half of the credits in the student's major be taken here at the University. The respective Dean should be contacted

VALIDATION OF TRANSFER COURSES

Permission to validate School of Management courses by successfully completing one or more advanced courses in the subject for which the course in transfer is a foundation can be granted by the SOM dean. This applies only to lower division transfer courses which the University offers at the upper division level. (No fee charges.)

STUDENT EXPENSES

ROOM AND BOARD--POLICIES AND GUIDELINES

Housing

The University of Scranton Housing system is comprised of 12 freshman and 20 upperclass residences. Resident freshmen are normally assigned to Freshman residence halls that offer personal development and leadership opportunities under the guidance of Jesuit counselors, staff, and faculty. Upperclass students may select from a range of housing options that includes attractive houses, apartment buildings, quad-style halls with semi-private baths, and traditional halls offering single and double rooms

The University provides in-room access to the University's communication network (telephone, computer and video, including instructional and commercial television) in all residence hall rooms, and telephone service to rooms in University houses at no additional charge. This service includes unlimited local calling and voice mail (phone instruments are not provided) from each room, as well as discounted long distance rates for those enrolled in the University's long distance program. In addition, light in-room housekeeping, 24-hour maintenance, and 24-hour security are included

Housing costs are based on the building to which the student is assigned. There are three housing plans: **Plan A** applies to Redington Hall and Gavigan College; **Plan B** applies to University Theme Houses, Driscoll Hall, Jefferson Hall, Gannon Hall, Lavis Hall, Luzerne House, McCormick Hall, Nevils Hall, Tioga House and Westmoreland House; **Plan C** applies to Casey Hall, Denis-Edward Hall, Fitch Hall, Hafey Hall, Hannan Hall, Lynett Hall, Martin Hall, McCourt Hall, Bradford Apartments, Cambria House, Jerrett Apartments, Montgomery House, Somerset Apartments and Wyoming House.

Please note that room and board charges are per semester and do not include Intersession or vacation periods.

Dining Services

Students have a choice of three cost-effective meal plans providing 19, 14 or 10 meals per week. The 19-meal plan provides three meals per day Monday through Friday, with brunch and dinner on Saturday and Sunday. The 14-meal plan provides two meals per day Monday through Sunday. The 10-meal plan offers students any combination of 10 meals per week. Meals are not served during vacation periods.

All freshmen living in University Housing must participate in the 19-meal plan during the entire freshman year. Upperclass residents living in Driscoll, Jefferson, Redington, and Gavigan Halls must participate in one of the three University meal plans. Meal plan participation is optional for upperclass residents of the University houses, commuters and students living in private housing. Discounted meal tickets are available for guests and students wishing additional flexibility

Contractual Obligations

Once enrolled in a room and/or board plan, the student is obligated to that plan for the remainder of the academic year as enrolled. Requests for release from contractual obligations or for exceptions to room and board policies will be considered by the Director of Residence Life. Requests must be in writing and may require supporting documentation from a parent andor physician. Requests will be considered on a case-by-case basis with exceptions granted only for those with extraordinary circumstances. If cancellation of room contract is permitted, there will be no refund. If meal plan withdrawal is approved, a refund will be prorated on a per day basis

Intersession

Students taking one or more Intersession classes must live in University housing if they lived in University Housing during the fall semester. The Intersession room fee (see page 218) will apply. Those not enrolled during Intersession are not permitted to reside in University housing for reasons of safety and security. Intersession residents are required to enroll in the same meal plan in which they were enrolled during fall semester.

TUITION PAYMENTS

Tuition and fees are payable in advance upon registration. Registration is to be completed BY MAIL in July for the fall semester and in December for the spring semester. Without exception, laboratory fees must be paid in all courses with a laboratory requirement. The University Fee & Health Fee must be paid by all CAS, SOM and CHEHR students registered for courses. This includes student teaching, internships and clinical studies

No student shall be permitted to receive any degree, certificate, or transcript of record until the financial account with the University has been settled

FAMILY TUITION REDUCTION

Whenever two or more dependent children from the same family are in attendance during the same semester at the University as full-time undergraduate students, the family tuition reduction policy will apply. Also, whenever at least one dependent child in a family is in attendance at the University as a full-time undergraduate student and a parent is enrolled full-time as an undergraduate student, the tuition reduction policy will apply. Students must be full-time undergraduate students enrolled in either the University or Dexter Hanley College. The amount of tuition credit that will be awarded each semester for each student will be calculated after other financial aid has been applied by Bursar's Office personnel. Forms and additional information may be obtained from the Bursar's Office.

MONTHLY PAYMENTS

The University does not accept installment payments directly, but does facilitate this arrangement through a professional agency, Academic Management Services (AMS). For application information, please call AMS at 1-800-635-0120. Brochures are mailed to parents of all incoming students by May of each year.

TUITION AND FEES

VISAand MasterCard use is available for tuition and fee payments. Please contact Bursa's Office for details.

ACADEMIC YEAR 1994-95 TUITION per credit (Day School) (Summer Session)			\$362. \$302.
ORDINARY FEES University Fee per semester, for all	I CAS, S	OM & CHEHR students	\$355.
Health Service Fee per semester			\$ 65.
Continuation Fee (in lieu of University	sity Fee f	or studentsnot in residence) per semester	\$5.
Medical Leave Fee per semester			\$15.
Reader (Individual Study) Fee, per	credit		\$25.
Breakage Fee FOR SENIORS ONLY		FRESHMEN/TRANSFERS	Actual
Commencement/Yearbook Fee	\$180	Orientation Fee I.D. Photo	\$135. \$ 20.

LABORATORY FEES

Science Departments	
Science Departments Biology Labs, per course, per semester	\$100.
Physics labs, per course, per semester	\$ 75.
Psychology Department Lab Fees, per credit, per semester	\$ 50.
Medical Technology Internship Fee, per semester	\$125.
English/Communication Departments Film Screening Fee, per course, per semester	\$ 40.
Radio Lab, TV Lab Fee, per course, per semester	\$ 45.
Foreign Language Department Language Lab Fee, per course, per semester	\$ 50.
Nursing and Physical Therapy Department Clinical Lab, per hour, per semester	\$ 35.
Assessment Fee (NursingJr./Sr.) N.L.N. Mobility Examinations (RNStudents only)	\$ 40./50. \$195.
Department of Art and Music All Studio Art Courses (per course, per semester)	\$ 50.
All Art History Courses, except Arth. 140 (per course, per semester)	\$ 30.
Music Courses, Mus. 100, 111, 112, Fee, per course, per semester	\$ 30.
History/Political Science Department History 212, History 218, per course film fee	\$ 30.
SPECIAL SERVICE FEES Late Tuition Payment Fee	\$100.
Late Registration Fee	\$ 20.
Requested Change of Schedule after First Day of Class	\$ 15.
Change of Major Fee	\$ 15.
Off-Campus Course Permission Fee	\$ 25.
Certified Transcript (per copy) Currently Matriculated Students	\$2.
All Other Requests	\$4.
Application	\$ 30.
Parking Fee, annual	\$ 80.
Locker Rent, per year	\$ 10.
Reinstatement to Class List	\$100.
Foreign Study Fee (per semester)	\$150.
ROOM AND BOARD FEE SCHEDULE: Room Rent A (per semester)-Redington and Gavigan Halls	\$1,825.

Room Rent B (per semester)-Theme Houses, Driscoll, Jefferson, Gannon, Lavis, McCormick, and Nevils Halls; Tioga House, Westmoreland House \$1,725.

Room Rent C (per semester)-Upper &lower quad halls, University apartments, Cambria House, Wyoming House \$1,625.

Intersession Room Rent \$213.

Room Damage Deposit \$25.

Food Plan. 19 meal plan (intersession -- \$342.) semester -- \$1,268.

Food Plan. 14 meal plan (intersession -- \$315.) semester -- \$1,168.

Food Plan. 10 meal plan (intersession -- \$274.) semester -- \$994.

Summer Room Charges 1st and 2nd sessions --\$301

"G" session -- \$412.

\$30.

University Houses and Apartments Surcharge (per semester)

University Housing Activity Fee (annual fee) \$30.

REFUNDS

If a student is authorized to withdraw with honorable standing from the University for a good cause, a written request may be made for reduced charges for tuition, board and room fees. (Note should be taken that the student may not demand a refund as a matter of right.) Ordinarily, laboratory and special service fees are not refundable. Students withdrawing from individual courses are also eligible to receive credit on their account with the University according to the schedule given below

SCHEDULE OF REFUNDS FALL/SPRING SEMESTER	CREDIT
Before the first day of classes and	
To and including 10 calendar days of the semester	100%
To and including 17 calendar days of the semester	75 %
To and including 24 calendar days of the semester	50%
To and including 31 calendar days of the semester	25 %
Beyond 31 calendar days of the semester	no refund

SCHEDULE OF REFUNDS INTERSESSION/SUMMER SESSIONS Before the first day of classes and	CREDIT
To and including 2 calendar days of the session	100%
To and including 4 calendar days of the session	50%
Beyond 4 calendar days of the session	no refund

PRORATA REFUNDS

An exception to the above policy applies to Title IV federal aid program recipients attending the University of Scranton for the first time. The 1992 amendments to the Higher Education Act specifies a pro rata refund of tuition, fees, room and board through 60% of the term. Term specific refund schedules are available from the Registrar's Office

HEALTHINSURANCE

The University offers each of its undergraduate students the opportunity to enroll in an attractive health insurance plan at the outset of each academic year. All students residing in University housing units must participate in the University's sponsored health program, unless written evidence is presented showing coverage under another health program (e.g. paren'ts health policy).

SCHOLARSHIPS AND FINANCIAL AID

The University desires to help as many qualified students as possible to complete a college education. For this purpose the University maintains an Office of Financial Aid and all inquiries concerning such assistance should be made to the Director of Financial Aid

PROCEDURES FOR APPLYING FOR SCHOLARSHIPS AND FINANCIAL AID

- 1. Submit the University Application for Scholarship and Financial Aid. Incoming students must complete the application by February 15th. Returning students must complete and return the application by April 15th.
- 2. Complete the Free Application for Federal Student Aid (FAFSA). Priority filing date for incoming students is February 15th; for returning students, April 15th. FAFSA forms are available from High School Guidance Officers and from the University of Scranton Financial Aid Office.

In order to be eligible for financial aid, students are required to maintain satisfactory academic progress. Standards have been established for federal and University financial aid that measure a student's progress toward a declared educational objective. These guidelines include a maximum time frame for completing a degree, a minimum percentage of credits completed each academic year, and a minimum cumulative G.P.A. A brief explanation is provided below

Credit Requirements:

Full-time students are expected to complete their undergraduate degree within five academic years. Part-time students are allotted a period of time that shall not exceed ten academic years. Full-time students must complete a minimum of 24 credits during the year; three-quarter time students, 18 credits; and half-time students, 12 credits. Students enrolled for a combination of full and part-time must earn a proportionate amount of credits

Academic Requirements:

All students must maintain a cumulative G.P.A. of 2.00 in order to demonstrate satisfactory academic standing. Academic Scholarship recipients are required to maintain a cumulative G.P.A. of 3.0. Additionally, a student on academic probation may not be certified as meeting the satisfactory academic progress requirements

Students should consult the Comprehensive Guide to Financial Aid for a full definition of Satisfactory Progress Standards and the appeals process. Copies are available at the Financial Aid Office.

The following financial aid programs are available

LOANS:

FEDERAL PERKINS LOAN PROGRAM. The University administers this Federal program which provides 5% interest loans to needy students. A FAFSA Application is required of all loan applicants.

FEDERALSTAFFORD LOAN PROGRAM * is available in cooperation with community banks, credit unions, and savings and loan associations. Applications should be obtained from your lender. Freshmen may borrow a maximum of \$2,625, Sophomores-- \$3,500, and Juniors and Seniors - \$5,500 per academic grade level. The aggregate maximum for undergraduate study is \$23,000. Depending on their grade level, independent students may borrow \$4000-\$5000 in unsubsidized Stafford loans.

FEDERAL PLUS PARENT LOAN * is available for parents of dependent students. Credit worthy parents are able to borrow up to the difference between a student's cost of attendance less total other financial aid. Additional details and applications are available from community lending institutions.

THE PENNSYLVANIA HIGHER EDUCATION ASSISTANCE AGENCY has been designated by the General Assembly to administer the State Grant Program. Students may be awarded from \$200 to \$2,600 per year. Application deadline is May 1.

FEDERALSUPPLEMENTAL EDUCATIONAL OPPORTUNITY GRANT is a federal campus-based program awarded by the University. Amounts may range from \$200-\$2,500 per year to students who demonstrate exceptional need. Priority is given to Pell recipients. A FAFSA Application is required for this program

THE FEDERAL PELL GRANT provides Federal grants, ranging from \$400 to \$2,300 per academic year, based on financial need. By checking the appropriate box on the FAFSA Application, you will automatically be considered for a Pell Grant

UNIVERSITY OF SCRANTON AWARDS

The University offers a number of awards to students based on academic merit and financial need. Accepted freshmen are considered for these awards when a needs analysis and University Application for Financial Aid are submitted

OTHERPROGRAMS:

THE FEDERAL WORK-STUDY PROGRAM is a federal campus-based program that provides employment during the academic year and the summer for students demonstrating financial need. The majority of the jobs are on-campus positions in various departments and administrative offices. Some jobs, both on and off campus, involve community service. Students seeking campus employment must file a FAFSA Application and Work-Study Application

VETERANS BENEFITS -- Veterans and eligible dependents should consult with their local Veterans Administration counselor in order to establish their eligibility for participation. The Office of the Registrar certifies enrollment for eligible veterans with the Veterans Administration (VA form 22-1999).

U.S. ARMY ROTC SCHOLARSHIPS are available. Full details may be secured by contacting the Military Science Department

OFFICE OF VOCATIONAL REHABILITATION under the Pennsylvania Department of Labor and Industry provides help to qualified students. Residents of other states should inquire about similar programs available in their state of residency.

SCHOLARSHIPS:

Each year the University offers a variety of scholarships which range from full tuition Presidential Scholarships for outstanding high school seniors to partial scholarships which are granted on the basis of the student's scholastic ability and financial need. All applicants must file a Needs Analysis Application.

SCRANTON PREPARATORY SCHOOL SCHOLARSHIP

This four-year tuition scholarship, initiated in 1947 by the President and Board of Trustees of the University, is given annually to a graduate of the Scranton Preparatory School in honor of the following (the name of the scholarship, therefore, rotates from year to year):

THE MOST REV. HENRY T. KLONOWSKI, D.D., SCHOLARSHIP (1990-1994) -- to Francis J. Wren

THE REV. EDWARD BAXTER, S.J., SCHOLARSHIP (1991-1995) -- to Noel M. Kramer

THEMOSTREV. MARTIN J. O'CONNOR, D.D., SCHOLARSHIP (1992-1996)

-- to Kathleen M. Kelly

Selection of the recipient is on the basis of academic achievement, qualities of leadership, service to the Preparatory school, and recommendation of the President and Dean of Studies of the Preparatory School.

IGNATIAN SCHOLARSHIPS

The Ignatian Scholarship was formerly known as the Presidential Scholarship. We elected to change its designation in 1991 in honor of the 500th Anniversary of the birth of St. Ignatius, the founder of the Jesuits, and the 450th Anniversary of the Society

The awarding of Ignatian Scholarships provides us with a unique opportunity to recognize individuals who have served this institution as trustees, faculty, staff or friends

The names of the *Ignatian Scholarships* and the recipients for 1990-94 are: THE RICHARD E. BENNETT SCHOLARSHIP-to Joanne Collins of Staten Island, New York (Saint John Villa Academy).

THE ALBERT R. JASUTA SCHOLARSHIP-to Gail E. Lesavage of Scranton, Pennsylvania (Central High School).

THE GERARD P. JOYCE SCHOLARSHIP-to Lisa Marie Otterbein of Hazleton, Pennsylvania (Bishop Hafey High School).

THE SR. M. GABRIEL KANE SCHOLARSHIP-to Robert E. Wilson of Florham Park, NewJersey (Hanover Park High School).

THE WILLIAM H. OSTERLE SCHOLARSHIP-to Kristen M. O"Hora of Scranton, Pennsylvania (Central High School).

The names of the *Ignatian Scholarships* and the recipients for 1991-95 are: THE ROBERT J. BEDNAR SCHOLARSHIP-to Joseph M. Armstrong of Philadelphia, Pennsylvania (St..Joseph's Preparatory School).

THE MR. AND MRS. PATRICK DeNAPLES SCHOLARSHIP-to Chryssa V. Valetta of Kingston, Pennsylvania (Bishop O'Reilly High School).

THE ZIM E LAWHON SCHOLARSHIP--to Simeon B. McAleer of Rego Park, New York (Regis High School).

THE LAWRENCE J. LENNON SCHOLARSHIP-to Donna M. Post of Wanaque, New Jersey (Lakeland Regional High School).

THE SURACI-KEATING SCHOLARSHIP-to Henry C. Strada of White Plains, New York (Fordham Preparatory School).

The names of the *Ignatian Scholarships* and the recipients for 1992-96 are: THE REV. JOHNJ.BURNS, S.J. SCHOLARSHIP-to Kathleen P. Drower of Tunkhannock, Pennsylvania (Scranton Preparatory School)

THE REV. JAMESJ. CONLIN, S.J. SCHOLARSHIP-to Thomas W. Janofsky of West Chester, Pennsylvania (Devon Preparatory School).

The names of the *Ignatian Scholarships* and the recipients for 1992-96 continued: THE JOHNS. FLANAGAN SCHOLARSHIP-to Michael R. Tracy of Scranton, Pennsylva-nia (West Scranton High School).

THE HUGH J. GOWNLEY SCHOLARSHIP-to Melissa M. Incavido of Lake Ariel, Pennsylvania (North Pocono High School).

THE MARY E. MCDONALD SCHOLARSHIP-to Joseph J. Rasimas of Wilkes-Barre, Pennsylvania (Wyoming Seminary Preparatory School)

THE EUGENE A. MCGINNIS, PH.D. SCHOLARSHIP-to Timothy M. Gallen of West Chester, Pennsylvania (Regis High School).

THE DR. AND MRS. PAUL J. POINSARD SCHOLARSHIP-to Joseph P. Della Valla of Philadelphia, Pennsylvania (St. Joseph's Preparatory School).

THE MONSIGNOR PAUL J. PURCELL SCHOLARSHIP-to Maria D. Reese of Lake Ariel, Pennsylvania (North Pocono High School).

THE REV. JOHN J. QUINN, S.J. SCHOLARSHIP-to James L. Petras of Tunkhannock, Pennsylvania (Scranton Preparatory School).

THE SAMUEL R. TODARO, M.D. SCHOLARSHIP-to Michele A. Battle of Scranton, Pennsylvania (Scranton High School).

THE JOHN C. WILLIAMS SCHOLARSHIP--to Steven E. Pustay of Levittown, Pennsylvania (Holy Ghost Preparatory School).

The names of the *Ignatian Scholarships* and the recipients for 1993-97 are: THE BENJAMIN J. COTTONE, M.D. SCHOLARSHIP-to Michael J. Fraboni II of Waverly, New York (Waverly Junior-Senior High School)

THE REV. LOUIS C. KLEFF, S.J. SCHOLARSHIP-to Jennifer J. Lyden of Maitland, Florida (Bishop Moore High School).

THE BENNO AND GERTRUDE LEVY SCHOLARSHIP-to Karen R. Zolnowski of Red Bank, New Jersey (Middletown High School South).

THE MR. RALPH J. LOMMA SCHOLARSHIP-to Matthew G. Sullivan of Valley Stream, New York (Regis High School).

THE MR. STUART SUBOTNICK SCHOLARSHIP-to Jill S. Polakowski of Lakehurst, New Jersey (Manchester Township High School).

THE MR. PAUL J. WEIR SCHOLARSHIP-to Kristen L. Hines of Churchville, Pennsylvania (Gwynedd-Mercy Academy).

PIUS X SEMINARY SCHOLARSHIP

Dr. Arthur Jordan initiated the Rev. James Flynn '58 Memorial Scholarship for the purpose of assisting University of Scranton students at Pius X Seminary in need of financial aid

PURPLE CLUB SCHOLARSHIPS

Noteworthy among gifts to University of Scranton students are the significant amounts annually contributed by the Purple Club of Scranton. Since its founding in 1933, the Purple Club has provided special financial support to deserving and qualified students

ENDOWMENT

The University Endowment welcomes gifts of funds or property from alumni, parents of students, and other persons interested in the support of higher education

Generally, the principal of an "endowment" is non-expendable. Income earned by investment of the endowment may be used for scholarships, awards, academic chairs, maintenance of buildings or other purposes specified by donors.

Some endowments are established by bequest through wills. Charitable Trusts and insurance programs, in more than a dozen variations, also provide a significant source of endowment funds, with the added feature of a life income for the donor. Outright gifts of highly appreciated securities or other property constitute another source of endowment funds

Those interested in learning more about the cost and tax advantages of establishing a scholarship or other memorial, should contact:

Robert J. Sylvester Marie Trovato

Vice President for Development Director of Planned Giving and Public Relations and Special Gifts

(717) 941-7661

(717) 941-7661

ENDOWED SCHOLARSHIPS AND AWARDS

THE ALPERIN FAMILY AWARD FUND-Members of the Alperin Family (Irwin E. Alperin, Myer Alperin, Toni Alperin Goldberg, the late Joel M. Alperin, and their families) established the Alperin Family Award Fund in 1987. This award is given to incoming students who have demonstrated excellence in the classroom and financial need. First preference is given to employees of the Alperins: Gold Star Mfg. Co., Inc.; Mayflower Mfg. Co., Inc.; Triple A Trouser Mfg. Co., Inc.; Astro Warehousing, Inc. and their families, but all worthy students from Lackawanna County and Northeastern Pennsylvania are considered

THE JOSEPH JAMES AND MARY AGNES ANDRAKO AWARD IN LOVING MEMORY OF ANDREW AND MARY ANDRAKO AND THE JOSEPH JAMES AND MARY AGNES ANDRAKO AWARD IN LOVING MEMORY OF WILLIAM AND AGNES LOFTUS-These funds were established in 1988 according to the provisions in the will of the late Joseph J. Andrako. The income from the funds will be used for grants to students who have financial need and who have demonstrated academic excellence. They must be enrolled in a pre-medical or allied health sciences program.

THE FRANK A. AND HELEN S. BACIEWICZ SCHOLARSHIP FUND-This fund was created in memory of Frank Baciewicz by his family and widow. The student must embody characteristics of generosity, thoughtfulness, humor, and mental and physical tenacity. First consideration will be given to students from the Dickson City or Scranton area

THE RITA AND BERNARD BAGLEY MEMORIAL FUND-This fund was established by the children of Rita and Bernard Bagley to honor their parents. It is available to a student whose parents are, or were, members of St. Basil's Parish in Dushore, Pennsylvania, or its mission parishes.

VELIO E. BERARDIS, M.D., MEMORIAL AWARD-In 1989 Mrs. Dorothy Berardis established a fund to honor the memory of her husband, Velio E. Berardis, M.D. This fund provides awards, based on merit and need, to senior pre-med students who hope to attend medical school. Special preference is given to those who plan to attend Jefferson Medical College

THE MICHAEL J. BEVILACQUA AWARD FUND-Established in 1989 by the Bevilacqua family as a memorial to honor the late Michael J. Bevilacqua. It is available to students from New Jersey when more than one member of the family is in college at the same time

THE FRANCIS P. BOLAND, M.D., MEMORIAL AWARD-Family, friends and colleagues established this fund shortly after Dr. Boland's death in 1987. Each year a grant is given to Lackawanna County residents who are pre-med students. The award is based primarily on merit

BURKE FAMILY AWARD-In 1966 and 1967, contributions were made to the Endowed Award of the University in the name of the Burke Family Foundation. In prior years, additional unrestricted gifts have been made by the Burke Family Foundation. The income from the fund is used to provide awards for needy and deserving students. The Burke family was originally from the Hyde Park section of Scranton. Thomas F. Burke, Class of '09, played a leadership role in founding the award.

REV. HENRY J. BUTLER, S.J., MEMORIAL AWARDS-The first was established in 1984 by James Summers in honor of the Executive Vice President of the University who died in office in 1981. A second Butler Award was established in 1985 by John A. McCrane, a classmate of Father Butler at Georgetown University.

THE PRIVATE FRANK J. CALI SCHOLARSHIP-Mr. and Mrs. Samuel C. Cali created this scholarship in memory of Mr. Cali's brother. It is available to any student who meets the University of Scranton qualifications.

BRIDGET CARNEY AWARD-This fund was established in 1972 by a bequest of James I. Kearney, M.D. Income from the fund, which is named to honor the memory of Dr. Kearney's

mother, is used for awards for students, one or both of whose parents were or are parishioners of St. Ignatius Parish, Kingston, Pennsylvania

JAMES J. CLAUSS AWARD FUND-Established in 1973 by an alumnus, Class of '47, and local businessman, this fund provides investment income to aid students who require financial assistance, but do not qualify for most award programs based on financial need. First consideration is given to Northeastern Pennsylvania students

JON A. CLAUSS AWARD FUND--An endowed Award was established in 1980 to honor the memory of Jon A. Clauss, son of Dr. and Mrs. Thomas F. Clauss of Justus, Pa. Income from the award is distributed to deserving young men and women

THE JUDITH FOX DOYLE SCHOLARSHIP FUND-This scholarship was created by Mr. Joseph T. Doyle in honor of his wife and in appreciation of his Jesuit education at the University of Scranton

THE DENISE DUBBELS SCHOLARSHIP FUND-This fund was created by students and faculty members in memory of Denise, an Honors Program student and member of the Special Jesuit Liberal Arts program, who was killed in an automobile accident while studying in Russia. The scholarship aids students who want to study in non-Western European countries

ROBERT I. EDELSOHN AWARD FUND-In 1964 a sum was bequeathed in the Estate of Robert I. Edelsohn, a Polish immigrant who became a Scranton businessman and realtor, to be held in trust by the University of Scranton. Income from the fund is used to furnish awards for needy and deserving students at the University.

THE ETR AND ASSOCIATES, INC. SCHOLARSHIP FUND-This fund was created by Mr. Robert E. Lee, President of ETR and Associates, in appreciation of the fine Jesuit education his daughter received at the University of Scranton. The scholarship is open to any student demonstrating personal financial need.

PETER J. FARRELL AND MAIDA LIPPERT FARRELL AWARD-University of Scranton professor Matthew C. Farrell, Ph.D. established this Award in 1988 through a gift of land in North Central Pennsylvania. The proceeds from this gift are to be devoted to providing scholarships for North American Indian students at the University.

LAUREEN FINN MEMORIAL AWARD-Laureen Finn passed away in her sophomore year at the University of Scranton. Family, friends and fellow members of the class of 1990 established this award in memory of Laureen. The funds are awarded to a freshman education or English major with preferences given to residents of Englishtown, New Jersey. This award is nonrenewable

THE MARTHA FITCH AWARD FUND-In 1955 a bequest was made to the University in the Will of Miss Martha Fitch, a retired nurse and former superintendent of Thompson Hospital, Scranton. Income is used to provide scholarships for needy and deserving students

THE JAMES H. FOY, M.D. MEMORIAL AWARD-Established in 1987 by Dr. and Mrs. Joseph J. Rupp to honor Dr. Foy whose encouragement and support helped Dr. Rupp in his education. The award is given to pre-medical students who also demonstrate proficiency in the humanities

THE JAMES M. FRANEY SCHOLARSHIP FUND-This scholarship fund was started from a bequest from the Estate of Mr. James M. Franey. The scholarship benefits students from the Northeastern Pennsylvania area

THE SARA G. FRIEL MEMORIAL AWARD FUND-Before her death in 1982, Sara G. Friel, aunt of then University President, William J. Byron, S.J., directed that part of her estate be used to endow an award fund at the University of Scranton. (Income from the Fund is distributed to deserving and financially needy students each year.)

THE JOHN R. GAVIGAN AWARD FUND-In 1989 the University of Scranton established Gavigan College in honor of John R. Gavigan who, for 37 years, served the University in numerous capacities. Also established in 1989, by University Alumni and friends of John, was the Gavigan Award Fund to assist students in financial need

THE MORRIS AND MAE GELB AWARD-The Morris and Mae Gelb Award Fund was established in 1989, through gifts from the Gelbs, members of their family and friends. This award benefits deserving and needy students of all faiths attending the University

THE REVEREND JOSEPH GIRARD GILBRIDE MEMORIAL AWARD-This fund is for residents of Peckville (Blakely Borough), Carbondale, Throop, Nanticoke, the Parsons Section of Wilkes-Barre, and Plymouth; all in Northeastern Pennsylvania. It was established by Fr. Joseph G. Gilbride, prior to his death, to provide awards to needy and worthy students. (The awards were first presented in 1988, the University's centennial year, "for the purpose of signaling the enchanting and challenging citizenry of the above communities, all citizens of which, regardless of any distinctions were most helpful" to Fr. Gilbride during his lifetime.)

THE DR. AND MRS. JOHN GIUNTA SCHOLARSHIP FUND-Professor Giunta created this scholarship out of his loyalty to the University of Scranton and his appreciation for the fine education his own children received here. The award is given to an incoming freshman pursuing a degree in economics.

THE PETER S. GRAYBAR MEMORIAL AWARD-This fund was created to honor Peter S. Graybar, a beloved friend and active member of the University of Scranton's Class of 1993. The award provides assistance to a Junior who has demonstrated active involvement in extra-curricular activities.

THE EDWARD T. GRONCKI AWARD-Established to honor the memory of a University of Scranton alumnus, the awards are given to deserving young men and women selected by the Director of Financial Aid. First consideration is given to residents of the Minooka and Greenwood sections of Northeastern Pennsylvania and graduates of St. Mary of the Assumption School, South Scranton. (The late Attorney Groncki was, at the time of his death, the leading independent specialist in mutual funds and tax shelters in the Washington, D.C. area. His support, during life, of numerous projects to aid young people led to the creation of the award by family members and close friends.)

THE IRVING AND EDYTHE GROSSMAN SCHOLARSHIP TUITION FUND-This fund was created out of the generosity of Irving and Edythe Grossman and is a memorial in their honor. Eligible students must demonstrate academic achievement and participation in community service

JUDGE FREDERICK W. GUNSTER AWARDS-The Estate of Joseph F. Gunster also provided funds for this award to honor the memory of his father. Awards are based on merit

MARGARET GUNSTER AWARDS-Joseph F. Gunster's mother is remembered through an award designed to assist students from low income families. (This fund was also established by Mr. Gunster's bequest.)

RUTH GUNSTER MEMORIAL AWARD FUND-In 1971, Joseph F. Gunster, Class of '17, established the Ruth H. Gunster Memorial Award Fund in loving memory of his wife. This fund, which was increased by a bequest in 1980, is invested and the income is used for awards given annually to students from Northeastern Pennsylvania

THE JOHN AND LUCILLE GUZEY AWARD-An endowed award by Mr. and Mrs. John Guzey was begun initially in 1978 and added to in 1983. Originally developed to assist members of the Central Scranton Boys" and Girls" Clubs, this fund is now unrestricted and is awarded on the basis of financial need.

REV. HANLEY AWARD--This award is named for the late Dexter Hanley, S.J., Esq., former University President. Aid from this fund is granted to nieces and nephews of University Jesuit personnel.

THE DERMOT HARRIS FOUNDATION-The Dermot Harris Foundation will support promising young men and women from the Republic of Ireland. This Foundation was started in 1987 by actor Richard Harris in honor of his brother Dermot

THE HILL NEIGHBORHOOD ASSOCIATION/PETER CHEUNG AWARD-This fund was named for Peter Cheung, a resident of Wayne House and director of the annual "haunted house" who died in an accident while an undergraduate. Awards are given to a junior or senior who has demonstrated service to the neighborhood and the University community. Preference is given to residents of the City of Scranton's Hill Neighborhood.

THE FRANK AND JEAN HUBBARD AWARD FUND-This fund was established through a generous gift from Frank and Jean Hubbard. It is for individuals who graduated from North Pocono High School in the top 25% of the class and have financial need. It is expected that the recipient will take a minimum of fifteen credits each semester

ITT AWARD FUND--The International Telephone and Telegraph Corporation established this award fund to encourage students to pursue academic excellence. The Dean of Admissions annually selects an incoming freshman to receive the award, which is renewable based on academic achievement.

THE JESUIT COMMUNITY SCHOLARSHIP FUND-Substantial annual gifts from the University of Scranton Jesuit Community have made possible an endowment to provide unrestricted scholarship aid to deserving students. Most awards are based on financial need and academic achievement

THE JETHRO SCHOLARSHIP--Funded with an endowment established by a University of Scranton faculty member, Dr. Everett R. Brown, the grant is awarded to a freshman Management, Marketing or Economics/Finance major who demonstrates that he or she has earned a significant amount of total college expenses. It is not dependent upon financial status of parents, nor high school grades. The grant may be repeated throughout the period of undergraduate study, as long as the recipient maintains a grade point average of 3.00 or better

B. CARL JONES MEMORIAL AWARD FUND-This fund was established in 1988 by family, friends and colleagues of the late B. Carl Jones, a University trustee and benefactor. The fund provides financial assistance, based on need, to students from Lackawanna County who are enrolled in the School of Management.

THE FRANCIS J. KEARNEY AWARD FUND-A 1977 gift from a retired pharmacist, followed by a bequest in 1979, made possible this award fund to assist deserving students in need of financial aid.

KOCH-CONLEY AMERICAN LEGION AWARD-Established in 1985 by agreement with the American Legion, these awards are provided on the basis of academic achievement and financial need. First preference for these awards is given to sons, daughters, nieces, nephews and grandchildren of the members of the Koch-Conley American Legion Post 121. Thereafter, similar family members of other Pennsylvania American Legion Post members may be considered

REV. STEPHEN A. KOLLAR MEMORIAL AWARD FUND-A fund was established in 1977 in accordance with directions set forth in the Will of the late pastor of Holy Family Church, North Washington Ave. at Gibson St., in Scranton. A maximum of \$500 per year is made available to each recipient. Applications must be considered in the following priority: 1) kinship to the deceased, the Rev. Stephen Kollar; 2) members of the Holy Family Parish Congregation of Scranton for a minimum of three years prior to filing the application. In the event that there are no eligible candidates in categories (1) and (2), other needy students may be considered

THE MARY R. WALSH KRAHE AWARD-This award was established in 1987 by Mary R. Walsh Krahe to honor the memory of her brothers, Nicholas E. Walsh and William E. Walsh, and the Walsh family of Old Forge, PA. Funds from the endowment are used to provide support to a student from Lackawanna County. First preference will be given to students who attended Old Forge High School.

KUEHNER AWARD FUND--This fund was established by Carl, class of '62, and Joanne Kuehner of Naples, Florida in 1985. Income from this fund provides financial assistance to needy students from single parent families in Lackawanna County.

JOSEPH F. AND ROBERT G. LAVIS AWARD FUND-In 1990 a gift was made to the University through the estate of Robert G. Lavis, a Scranton businessman. Income from this fund is used to help students by providing a full four year award once every four years, to an incoming freshman. This award also provides funds to help junior and senior students (who have experienced a reduction in their ability to meet educational expenses.) All requests for this aid will be directed to the Office of Financial Aid.

EDWARD P. LEAHY AWARD FUND-An endowed fund established in 1989 by Edward R. Leahy, Esq., in honor of his late uncle provides aid to needy students

THE LESLIE FAY SCHOLARSHIP FUND-This fund was established to assist with the cost of education for students of Leslie Fay employees at the Wilkes-Barre, Pennsylvania facility

MR. AND MRS. PALMER P. LIBERATORE SCHOLARSHIP GRANT-Established in 1991 by Mr. Palmer Liberatore, the grant is given to a deserving student from Lackawanna County who demonstrates academic ability and financial need

THE RALPH J. LOMMA AWARD FUND-This award is presented to students with outstanding high school records in honor of Ralph J. Lomma, an alumnus of the University and a distinguished Scranton businessman, chairman and chief executive officer of The Lomma Group of Scranton. The full-tuition scholarship is awarded each four years to one student

THE BRUCE LOWENBERG AND JOHN MCLEAN KELLY MEMORIAL AWARD FUND-This fund was established in 1988 by Mrs. Frances McLean Lowenberg. Income from an endowment provides award grants to qualified and deserving young men and women

THE FRANK J. AND MAE C. MacENTEE MEMORIAL AWARD-Founded by the MacEntee Family in memory of their beloved parents. This award will assist deserving students with their education costs at the University of Scranton

BETH ANNE MACKIE MEMORIAL AWARD FUND-This fund was created as a memorial to Beth Anne Mackie by her parents. The eligible student must be a psychology major showing academic excellence.

THE MARY KAY/ROCHON SCHOLARSHIP--This scholarship was set up by Mr. John Rochon and the Mary Kay Foundation. It is awarded to bright, female students in economic need

THE ROBERT L. McDEVITT, K.S.G. AWARD-Income from a Fund established in 1977 provides assistance to qualified and deserving Hanley College students. The award was established by Robert L. McDevitt, K.S.G., a Georgetown University classmate and long-time friend of the late Rev. Dexter L. Hanley, S.J., who served as president of the University from 1970 to 1975

THE JOHN P. MCLEAN AWARD FUND-This fund, established in 1985 by former trustee, Thomas E. Sheridan '60, and many other alumni, students, family and friends, is named in honor of Professor John P. McLean, a School of Management faculty member for over 50 years. Income earned by the endowed fund is distributed to deserving accounting students

THE MERCY HOSPITAL NURSING SCHOLARSHIP-In 1988 Scranton's Mercy Hospital established a scholarship for full-time nursing students. Preferred eligibility would be for employees of Mercy Hospital and/or children or spouses of employees. Other than employees, the recipient must be a resident of Lackawanna County. This scholarship is based on merit

CHARLES E. MERRILL AWARD-In 1969, the Charles E. Merrill Trust of New York City made a gift to the University. The income from this award assists students of the Catholic faith

THE ANGELO H. MONTRONE AWARD FUND-This fund was established by Paul M. Montrone, President of the Henley Group, Inc. and a member of the class of 1962, to honor his father. Each year, the Director of Financial Aid chooses a School of Management student who best exemplifies the senior Mr. Montrone's life-long dedication to self-improvement and ethical behavior in business management.

THE MOSES TAYLOR HOSPITAL NURSING SCHOLARSHIP-This fund was established in 1989 by Moses Taylor Hospital of Scranton, PA. The recipient of this merit scholarship must be a nursing major. Moses Taylor Hospital employees and their families, along with residents of Lackawanna County, are given first preference

THE ROBERT W. MUNLEY MEMORIAL AWARD-This fund was established by Robert W. Munley, Esq. and Judge James M. Munley as a way of honoring their father Robert W. Munley. Income from this fund will support deserving young students from Lackawanna County

THE MURPHY AWARD FUND-This fund was established in 1957, through a bequest of Miss Margaret Murphy, a retired schoolteacher and lifelong resident of Scranton. A marker has been placed on campus designating the gifts as having been made by Margaret and her sister Katherine "in loving memory of our mother, father and brothers." The income award provides funds for needy and deserving students.

JAMES NASSER FAMILY AWARD FUND-This fund was established in 1986 by Mr. and Mrs. James R. Nasser. Preference is given to needy students from Lackawanna County

THE NEPA APICS SCHOLARSHIP--Established in 1987 by Northeastern Pennsylvania Chapter of the American Production and Inventory Control Society for qualified junior or senior students enrolled in the Production Management major of the School of Management and active members of the University of Scranton Chapter of APICS

THE CHARLOTTE W. NEWCOMBE FOUNDATION AWARD-This fund provides scholarship aid for mature, second-career women students

THE DR. EDWARD J. NOTARI SCHOLARSHIP-Each year two freshman Physical Therapy students will receive a grant which will be carried through the completion of their senior year. To be eligible the student must have graduated from a high school in, and be a resident of, Lackawanna, Susquehanna, Luzerne, Monroe, Pike, Wyoming, Columbia, Schuylkill, or Carbon Counties. These scholarships are based on merit. Upon graduation, the physical therapist agrees to work for two years at Allied Services for the Handicapped facility. Allied is the sponsor of the Notari Scholarship

THE MARION R. OATES MEMORIAL AWARD FUND-This fund was established in memory of an alumna who passed away in an automobile accident shortly after her 1990 graduation. Awards from this fund will aid middle income students from New Jersey

THE RAYMOND S. O'CONNELL AWARD--Shortly before his death in 1981, an alumnus of St. Thomas College, Raymond S. O'Connell, established a fund for needy students. His sister, Sara E. O'Connell, completed the gift after Raymond's death.

FRANK O"HARA AWARD FUND--This award was established in 1988 by friends and family of "Mr. University," Frank O"Hara. Mr. O"Hara served in many capacities over a long career with the University. Many alumni have fond memories of how he made a difference in their lives. This fund, along with O"Hara Hall, were established in his memory.

THE MARIAN N. AND PATRICK F. O'HARA AWARD--Income from an endowment provides unrestricted awards grants to deserving young men and women

OPPENHEIM FAMILY AWARD-This fund was established by the Oppenheim Family, who for many years owned and operated Oppenheim's Department Store and its predecessor, The Scranton Dry Goods Co. Income from the fund is used primarily for part-time, non-traditional students who need financial assistance. For further information contact the Office of Financial Aid or the Dean of Dexter Hanley College

THE BERNARD W. OZAROWSKI AWARD-This fund was established by Bernard W. Ozarowski in memory of two of his former professors, Rev. Edward J. Gannon, S.J. and Rev. John J. Fitzpatrick, S.J. The award provides financial aid to students in need from St. Pete's Preparatory School, New Jersey. The students should be involved in school activities

ERNEST D. PREATE AWARD FUND-The family of Attorney Ernest D. Preate, Sr. established this fund in March 1982. Income earned by the Fund is distributed to deserving students. First consideration is given to needy students who are residents of Lackawanna County

THE REV. J.J. QUINN, S.J. SCHOLARSHIP FUND-This scholarship honors Rev. J.J. Quinn, S.J., professor emeritus of English. It was started by alumni and former students to honor Fr. Quinn"s many years of service to the University of Scranton, his students, and the community

THE FRANCIS E. AND ELIZABETH BRENNAN REDINGTON SCHOLARSHIP FUND-This fund was established in 1984 according to provisions in the will of the late Francis E. Redington. It provides financial assistance to students on the basis of both ability and need. Some portion of the income each year supports scholarships for students from the Republic of Ireland

JOHN CHARLES & KATHRYN S. REDMOND FOUNDATION AWARD-The income from this fund will be directed to an outstanding student who is not eligible for any direct financial aid, as specified by state or federal regulations, but who shows financial need because of the students family situation (e.g., number of children in school needing parental support)

THE DR. RICHARD A. RENDICH EDUCATIONAL AWARD FUND-This endowed fund was established by the family of University alumna, Grace Rendich. Income from the fund is used to assist in the education of needy young men aspiring to the priesthood

THE RIVERSIDE PHYSICAL THERAPY FUND-This award was established in 1989 by the Riverside Rehabilitation Center, Plains, Pennsylvania. It is awarded to an incoming P.T. major who is also offered summer and then full-time employment at the center

JOHN M. ROBINSON AWARD FUND-An initial gift in 1974 and additional yearly gifts have established a fund which is used to generate income for promising and deserving students. Scranton area residents receive first consideration. Mr. Robinson attended the University and subsequently established LPS Industries Inc. in Newark, NJ

THE ROBERT RYDER SCHOLARSHIP FUND-Established in 1988 by John Diskin, '67 and Coopers and Lybrand as a tribute to Mr. Robert Ryder. The scholarship assists local students of Scranton or the Borough of Dunmore, Pennsylvania

CHARLES V. SABATINO, SR. SCHOLARSHIP FUND-This fund was established in 1990 by Frank C. Sabatino, Esq. '76 as a memorial to his father. This scholarship, based on merit, is awarded to a sophomore who has studied history.

THE JOSEPHINE SARCINELLI MEMORIAL AWARD FUND-Med Science Laboratories, Scranton, established this award in 1983 to honor the memory of Josephine Sarcinelli, the office manager of the firm for many years. The award is given to an incoming freshman from Lackawanna County who is in financial need and intends to major in medical technology

THOMAS J. SHEVLIN, JR. AND DR. JOHN F. SHEVLIN MEMORIAL AWARD FUND-This fund was established in 1989 through a bequest from Thomas J. Shevlin, Jr. of Carbondale, Pa. Income from this award is used to assist deserving young men and women in pre-medical studies

THE SPECIALITY PLASTICS PRODUCTS, INC. EDUCATIONAL FUND-The fund was established in 1988 for students of Dunmore High School, Dunmore, Pennsylvania

THE STANLEY E. AND ELAINE L. STETTZ SCHOLARSHIP-This award was established by Atty. Stanley Stettz, '61, in appreciation for the fine education he received at the University of Scranton

THE ARMOND AND BETTY STRUTIN SCHOLARSHIP FUND-This fund was created out of the generosity and commitment to the University of Scranton by Armond and Betty Strutin. The fund is distributed each year to deserving students identified and designated by the Purple Club

THE AMELIA SURACI AWARD FUND-This endowed fund was established in 1977 by the late Mr. Frank Suraci, Chairman of Parodi Cigar Corporation, to honor his wife Amelia. After Mr. Suracis

death, contributions from the Suraci and Keating families were added to the endowment. Each year, income from the fund is distributed to deserving and needy students

THE TRL ASSOCIATES SCHOLARSHIP-This award was established by Stephen P. Hrobuchak, Jr., President of TRL, Inc., to benefit TRL employees and their children. The award is presented each year to an incoming freshman who is either employed by TRL Associates or is the son or daughter of a current TRL employee.

UNICOSCHOLARSHIPFUND--The UNICO Foundation of the Scranton Chapter of UNICO National, a philanthropic group, established this fund in 1980 to offer financial assistance to deserving students.

CHARLES J. VOLPE MEMORIAL AWARD AND LECTURE FUND-Established in 1988, this fund is in memory of Charles J. Volpe, a well respected Scranton businessman and public servant. The award provides tuition for a student, entering their senior year, who is majoring in Political Science. The Lecture Fund provides for an annual lecture featuring a well known public servant

THE WILLIAM ZAHLER AWARD FUND-In 1986, Mr. and Mrs. William P. Zahler of Mayfield Heights, Ohio established an award in memory of their son William Zahler, Jr., an associate professor of English at the University until his untimely death in 1986. Income from the endowed award is distributed to deserving young men and women

ANNUAL AWARDS

DR. A.J. CAWLEY AWARD-In memory of Dr. A.J. Cawley of Pittston, Pa., a fund was established by a legacy from his sister, Miss Ellen Cawley. Income therefrom is used to provide an award to a Physics Major each year.

CMC - ADRIAN SAMOJLOWICZ MEMORIAL SCHOLARSHIP-Scranton's Community Medical Center created this award in honor of its late President Adrian Samojlowicz. This award supports Nursing, Physical Therapy or Medical Technology students, and is limited to employees of the Medical Center, their spouses and children

EDUCATIONAL FREEDOM AWARD-In 1990 Joseph E. McCaffrey established this award to aid students who graduate from Lackawanna County parochial schools. Mr. McCaffrey, a member of the New Jersey Chapter of Citizens for Educational Freedom, hopes this award will remind students to continue to pursue the goals of The Citizens for Educational Freedom

THE LEN AND DEBORAH GOUGEON ST. ANN'S AWARD--Established in 1986 through a gift from Drs. Len and Deborah Gougeon. This award, based on need, will provide assistance to a graduate of St. Ann's Grammar School or a member of St. Ann's Monastery Parish, Scranton, PA

JOSEPH P. HARPER AWARD-A fund was established in 1967 to honor the memory of Joseph P. Harper, Professor of Physics. An annual award is given to a senior Physics major upon the recommendation of the Physics department and with the approval of the Director of Financial Aid. The Department of Physics presents with the award, a citation reminding the recipient of the high scholarly ideals, exemplary life, and dedicated service represented by Professor Harper

HEAD INJURY RECOVERY ASSOCIATES AWARD-Each year Head Injury Recovery Associates provides aid to one full time freshman Nursing and one full time freshman Physical Therapy student. First preference for this award is given to the employees of Head Injury Recovery Associates, their spouses and children regardless of residency. Second preference is given to residents of Lackawanna, Luzerne, Monroe, Pike, Wyoming and Wayne Counties (PA); Delaware, Orange and Sullivan Counties (NY); Sussex, Passaic and Warren Counties (NJ). Further information on this award is available at the Financial Aid Office

THE HOESCHELE-STEINMETZ AWARD-This fund was established by General Electric in honor of David B. Hoeschele, an alumnus of the class of 1950. Mr. Hoeschele was chosen by G.E. for their prestigious award for his leadership in the field of electronic circuit design. He then requested the funds be used to establish an award for United States citizens or permanent residents from Northeastern Pennsylvania. The recipient should be enrolled as a full-time undergraduate in either the Physics or Electronic Engineering program. This award is based on need and academic merit

THE KATHRYN AND BERNARD HYLAND MEMORIAL AWARD FOR EXCELLENCE IN BIOLOGY--A gift from alumnus Bernard V. Hyland, M.D., made in loving memory of his parents, established in 1980 an endowment to perpetuate this annual award. The award is presented to a graduating senior from the Biology Department who, in the opinion of the departments faculty, has achieved distinction based on academic excellence in biology, personal integrity and concern for others.

THE ROSE KELLY AWARD-A University of Scranton alumnus, Joseph Wineburgh, Ph.D., set in place an endowment to link the efforts of elementary and secondary school teachers to the achievements of college students. Each year, an outstanding student is selected by a committee appointed by the Academic Vice President. The Rose I. Kelly Award winner is asked to name a high school or elementary teacher who most influenced his or her pre-college academic preparation. Both the student and the teacher from pre-college days are honored at a campus ceremony. The student also receives a plaque and a book, selected by the students department chairman. A copy of the same book is placed in the University Library

Dr. Wineburgh established the program to honor an elementary teacher, Rose I. Kelly, who greatly influenced his life.

THE WILLIAM V. LOUGHRAN AND ALBERT E. PETERS AWARD FUND-Established in 1985 through a gift of Albert E. Peters and Elizabeth Loughran Peters, this fund provides awards, based on merit and need, to seniors who intend to pursue graduate studies in the fields of science, chemistry, and medicine. The fund is to be open-ended so that members of the Loughran and Peters families may continue to contribute to the awards

THE CONGRESSMAN AND MRS. JOSEPH MCDADE PROGRAM OF PUBLIC SERVICE-The fund, established in 1990, supports students, majoring in Political Science, doing internships in Scranton area government offices with the intention of following a career in public service

NORTHEASTERN PENNSYLVANIA SOCIETY OF PUBLIC ACCOUNTANTS AWARD FUND-An endowed fund to aid deserving senior Accounting students in Dexter Hanley College and the School of Management.

O"MALLEY & HARRIS PRE-LAW AWARD-This award is based on the outcome of an annual competition among full-time undergraduates at both the University of Scranton and Marywood College. Entry information is available from either school's pre-law advisor. Completed entries are submitted at the end of the spring semester. The law firm O'Malley & Harris, P.C., are sponsors of this award.

THE PUMP 'N" PANTRY, INC. SCHOLARSHIP AWARD-Mr. &Mrs. J. Thomas Quigg, '55 established this award in 1988 to financially assist students from the following school districts:Blue Ridge, Elk Lake, Montrose, Mountain View, Lackawanna Trail, Sullivan County and Tunkhannock

THE BERNARD SHAIR MEMORIAL AWARD-This award was established by family, friends and colleagues of Dr. Shair through the Scranton Area Foundation. It will be presented annually to a graduating senior of the University of Scranton who has been enrolled in an accredited dental school the same year of the award

THE PAUL L. WALEFF MEMORIAL AWARD-This fund was established by the parents of Paul L. Waleff, who died in 1984 while a student at the University of Scranton. Each year, the Director of Financial Aid presents the award to a junior or senior who plans a career of service to the handicapped.

WAYNE MEMORIAL HOSPITAL SCHOLARSHIP-Each year Wayne Memorial Hospital offers scholarships for students enrolled in the Nursing program at the University. Every other year aid is also provided to a student enrolled in the Physical Therapy program or the Medical Technologist program. First preference for this scholarship is given to the employees of the hospital, their spouses and children. Second priority is for residents of Wayne, Pike and Susquehanna counties. Contact the Director of Financial Aid for further information and requirements regarding this Scholarship.

ANNUAL SCHOLARSHIPS

LACKAWANNA COUNTY LAWYERS' AUXILIARY SCHOLARSHIP--Established in 1982, this award is annually presented to an outstanding graduating senior from Lackawanna County to provide scholarship assistance in the first year of law school. The scholarship is given directly by the Lawyers' Auxiliary, upon the recommendation of the University Pre-Law Advisor

BIENNIAL SCHOLARSHIP

FRIENDLY SONS OF ST. PATRICK SCHOLARSHIP-Biennially the Society provides funds for a University of Scranton student to enjoy the benefits of an academic experience, usually one or two semesters, in Ireland. The grant is for \$2,000. Contact Dr. Mary Engel, Associate Dean of the College of Arts and Sciences, for further information

ENDOWED CHAIRS

THE ALPERIN CHAIR IN BUSINESS ADMINISTRATION-Established by an endowment, this academic chair was set in place in 1980 through the gifts of three Scranton businessmen: Joel, Irwin and Myer Alperin, and their families

The late Joel Mitchell Alperin was the originator and the principal sponsor of the chair and its endowment. Income from the Alperin brothers' gift is applied to the salary of a professor in the School of Management.

THE CHAIR IN JUDAIC STUDIES-Income from an endowment established by alumni and friends of the University makes it possible for the University to invite, for short visits to Scranton, Judaic scholars from Israel, or other parts of the world, for public lectures and meetings with students and faculty.

THE PIUS X TEACHING CHAIR OF THEOLOGY-Established in 1976 by an anonymous gift, and the assignment of a matching grant from the University's Commitment to Excellence capital campaign, this chair is occupied by a priest, or jointly by a set of priests, of the Diocese of Scranton. The chairholders are nominated by the faculty of St. Pius X Seminary and approved by the faculty of the Department of Theology and Religious Studies at the University

THE JOSEPH T. AND FRANK M. MCDONALD CHAIR-Income from an endowment established by George and Dr. Herbert McDonald is used primarily to support the Pre-Law program, including support of the pre-law advisor, internship program, and advisory team; income is also used to provide scholarship assistance to deserving students in pre-law majors

OTHER ENDOWMENTS

THE GUNSTER LIBRARY FUND-Established by the 1980 bequest of Joseph F. Gunster, Class of '17, income from this fund provides annual support for the Alumni Memorial Library

JESUIT COMMUNITY CONTRIBUTION-Total contributed services of the members of the Jesuit Community of Scranton have been approximately \$3,000,000 since 1942. This gift of funds, returned to the University from payments made to Jesuits for their services, has enabled the University to offer many scholarships from its operating budget and has substantially aided the building program.

JOHN J. LONG, S.J., FUND--Contributions to this fund were made by friends of the Very Rev. John J. Long, S.J., President of the University 1953-1963, on the occasion of his Golden Jubilee in the Society of Jesus and later as a memorial after his death in 1971. The fund is invested and the income therefrom is used for projects and programs concerned with the spiritual growth of students.

THE LOYOLA LECTURE--The Jesuit Community serving the University of Scranton has endowed a lecture program intended to bring distinguished Jesuit speakers to campus. Named in honor of St. Ignatius Loyola, founder of the Jesuit Order, this fund can also support visits by other scholars capable of assisting the University community to better appreciate the Jesuit heritage

THE HARRY AND HELEN MACK AWARD FUND-This award was established through a Unitrust by Mrs. Helen Mack and is restricted to the University of Scranton's Judaic Studies Program. It assists students and the community in learning about Jewish heritage and culture

UNIVERSITY DIRECTORY

Richard H. Passon, Ph.D., Provost and Vice President for Academic Affairs Crucial to the fulfillment of the University's mission is its dedicated corps of faculty and staff, who work together to provide a stimulating and supportive environment for student achievement

Officers of the University Corporation

J.A. Panuska, S.J., President Marilyn Coar, Secretary David E. Christiansen, Treasurer

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ADMINISTRATION

President of the University (1982) J.A. Panuska, S.J. (1982)

Professor, Biology (1982) B.S., Loyola College; Ph.L., Ph.D., St. Louis University; S.T.L., Woodstock College

Provost and Vice President for Academic Affairs (1984) Richard H. Passon (1984) Professor, English (1984) A.B., King's College; M.A., Ph.D., University of Notre Dame

Vice President for Finance/Treasurer (1987) David E. Christiansen (1987) B.S., M.B.A., LaSalle University

Vice President for Planning (1986) Glenn Pellino (1980) B.A., M.A., St. Louis University; Ph.D. Cand., University of Michigan

Vice President for Development and Public Relations (1983) Robert J. Sylvester (1983) B.S., University of Scranton; M.A., Fairfield University

Vice President for University Ministries (1976) and University Chaplain (1989) Thomas D. Masterson, S.J. (1976)

Assistant Professor, History/Political Science (1976) A.B., M.A., Fordham University; Ph.L., S.T.B., S.T.L., Woodstock College; M.A., Ph.D., Georgetown University

Vice President for Student Affairs (1988) James T. Bryan (1988) RS., State University of New York at Fredonia; M.A., Michigan State University; Ed.D., Columbia University

Dean, College of Arts and Sciences (1990) Paul E Fahey, D. et U.* (1968)

Professor, Physics/Electronics Engineering (1978) B.S., University of Scranton; M.S., Ph.D., University of Virginia

Dean, Dexter Hanley College, Director of Instructional Development and of Learning Resources Center (1986) Shirley M. Adams (1986)

Assistant Professor, Education (1986) B.A., University of Northern Iowa; M.A., University of Iowa; Ph.D., Iowa State University

Dean, Graduate School and Director of Research (1985) Thomas P. Hogan (1985)

Professor, Psychology (1985) B.A., John Carroll University; M.A., Ph.D., Fordham University

Assistant Provost (1993) Richard McGowan, S.J.

B.S., Widener University; M.S., University of Delaware; M.Div., Th.M., Weston School of Theology; D.B.A., Boston University

Associate Provost for Information Technology (1994) Jerome DeSanto (1979) B.S., M.B.A., University of Scranton

Special Assistant to the President (1987) Rev. William Hill, S.J., D. et U. * (1946-47, 1969)

Professor, English (1969) A.B., Georgetown University; Ph.L., Woodstock College; M.A., Ph.D., Fordham University

Dean, School of Management (1986) Joseph J. Horton (1986)

Professor, Economics/Finance B.A., New Mexico State University; M.A., Ph.D., Southern Methodist University

Dean, College of Health, Education, and Human Resources (1991) James J. Pallante (1991)

Professor, Health Administration and Human Services (1991) B.A., La Salle University; M.S., Temple University; M.A., Glassboro State College; Ed.D., Rutgers University

Dean of Admissions (1981)
Bernard R. McIlhenny, S.J., D. et U. * (1958)
A.B., M.A., Loyola University Chicago;
S.T.B., Woodstock College

Associate Vice President for Operations, (1988) Martin L. Langan (1974) B.S., M.B.A., University of Scranton

Associate Dean, School of Management (1985)

George V. Babcock, D. et U. * (1963)

Associate Professor of Economics/Finance A.B., M.A., Ph.L., Boston College; M.B.A., New York University

Associate Dean, College of Arts and Sciences (1986) Director, Academic Advising Center (1987) Mary F. Engel (1986)

Associate Professor, English (1986) B.A., St. Bonaventure University; L.L., Katholieke Universiteit te Leuven; Ph.D., Kent State University

Director of Library (1992) Charles E. Kratz (1992) B.A., M.A., University of Notre Dame M.L.S., University of Maryland

EMERITI

Charles J. Buckley, M.B.A. D. et U. * (1947) Department of Business Administration Dean, Dexter Hanley College/Assistant to Academic Vice President

John R. Gavigan, A.B. D. et U. * (1950) Vice President for Student Affairs

John S. Flanagan, M.S. (1974) Vice President for Administrative Services (1974-1992)

Zim E. Lawhon, M.S. D. et U. * (1964) Department of Military Science Registrar

Robert T. Ryder, M.B.A. D. et U. * (1946) Vice President for Finance/Treasurer

FACULTY

PROFESSORS EMERITI

Panos Apostolidis, Ph.D. (1977-1989)
Department of Management/Marketing

Martin D. Appleton, Ph.D. D. et U. * (1955-1988) Department of Chemistry

John J. Baldi, M.S.S.W., D.S.S. D. et U. * (1948-1981) Department of Sociology

Edward F. Bartley, M.A. D. et U. * (1938-1987) Department of Math/Computer Science

Richard J. Bourcier, Ph.D. D. et U. * (1968-1993) Department of Foreign Languages and Literatures

Frank A. Cimini, M.A. D. et U. * (1941-1985) Department of Foreign Languages and Literatures

James J. Conlin, S.J., Ph.D. D. et U. * (1967-1992) Department of Sociology/Criminal Justice

Francis H. Curtis, M.Ed. D. et U. * (1966-1993) Department of Education

Joseph C. Dougherty, Ph.D. D. et U. * (1967-1991) Department of History/Political Science

Joseph T. Evans, Ph.D. D. et U. * (1953-1993) Department of Biology

Thomas M. Garrett, Ph.D. D. et U. (1960-1988)
Department of Philosophy

A. John Giunta, Ph.D.
D. et U. * (1960-1993)
Department of Economics/Finance

Walter Haab, Ph.D. D. el U. * (1942-1980) Department of Chemistry

Joseph M. Hamernick, S.J., S.T.B., M.A D. et U. * (1970-1993) Department of Communication

William B. Hill, S.J., S.T.L., Ph.D. D. et U. * (1946-1947, 1969-1983) Department of English

Daniel J. Houlihan, J.D. D. et U. * (1947-1985) Department of Accounting

Anne J. Jones, M.A. D. et U. * (1967-1987) Department of Fine Arts (1975-1986)

Helen P. Kelly, M.S. D. et U. * (1959-1980) Assistant Librarian

Raymond L. Kimble, Ed.D. D. et U. * (1973-1993)
Department of Education

Lawrence J. Lennon, Ph.D. D. et U. * (1946-1974) Department of Psychology

Eugene McGinnis D. et U. * (1948-1992) Department of Physics/EE

John P. McLean, B.S. D. et U. * (1940-1990) Department of Accounting

Marianne McTighe, M.S. D. et U. * (1946-1986) Associate Librarian

John J. Murray, Ph.D. D. et U. * (1957-1988) Department of English

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Matthew R. O'Rourke, M.A. D. et U. (1955-1982) Department of English

Andrew W. Plonsky, M.S., E.E. D. et U. * (1947-1980)
Department of Math/Computer Science

Edward R. Powers, S.J., M.A., S.T.L D. et U. (1955-1985) Department of Math/Computer Science

John J. Quinn, S.J., Ph. D. D. et U. * (1956-1992) Department of English

Stephen P. Ryan, Ph.D.

D. et U. * (1960-1981) Department of English

Henry V. Sattler, C.SS.R. D. et U. * (1967-1988) Department of Theology

Angelina T. Scardamaglia, M.S. D. et U. * (1947-1978) Assistant Librarian

Charles B. Trundle, S.J., M.A., S.T.L D. et U. * (1948-1951, 1953-1975) Department of Theology

John C. Williams, M.S. D. et U. * (1964-1990) Department of Education

PROFESSORS

Edwin Merrill Adams (1992) Assistant Professor, Biology (1992) B.S., The Citadel; Ph.D., Medical University of South Carolina

Brad A. Alford (1989)
Associate Professor, Psychology (1993)
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Barry R. Anderson (1974) Associate Professor, Biology (1980) B.S, State University of New York at Fredonia; M.S., Ph.D., Lehigh University

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Thomas E. Baker (1975)
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B.S., M.S., Virginia Commonwealth University;
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Subramanian Balakrishnan (1992) Assistant Professor, Management/Marketing (1992) B.S., Indian Institute of Technology, Madras; Ph.D., University of Pittsburgh

Galen L. Baril (1975)

Associate Professor, Psychology (1985)

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Professor, Physical Therapy (1988)

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B.A., Fairmont State College;

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Christopher Baumann (1984)

Associate Professor, Chemistry (1989)

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Professor, Computer Science (1976)

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B.A., Marist College;

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B.S., University of Scranton;

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Edward J. Capestany, D. et U. * (1968)

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Michael D. Carey (1978) Professor, Biology (1990) B.A., Wittenberg University; M.A., Ph.D., Indiana University

Brian Carpenter, C.M.A. (1987)
Associate Professor, Accounting (1992)
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M.B.A., University of Scranton
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Dona Carpenter, R.N. (1985)
Associate Professor, Nursing (1993)
B.S.N., College Misericordia;
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Ellen M. Casey, D. et U. * (1969) Professor, English (1981) B.S., Loyola University, Chicago; MA., University of Iowa; Ph.D., University of Wisconsin

Stephen J. Casey, D. et U. * (1969) Associate Professor, Theology/Religious Studies (1981) A.B., Iona College; M.A., Marquette University

Timothy K. Casey (1987)
Associate Professor, Philosophy (1990)
Chairperson, Department of Philosophy (1991)
B.A., Loras College;
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Raymond W. Champagne, Jr., D. et U. * (1967) Professor, History/Political Science (1981) A.B., Providence College; M.S., Duke University; Ph.D., Loyola University, Chicago

Leonard Champney (1979)
Professor, History/Political Science (1992)
B.S., University of Texas, El Paso;
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Satya P. Chattopadhyay (1990)
Assistant Professor, Management/Marketing (1990)
B.M.E., Jadaupur University;
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Ying I. Chien (1979)
Associate Professor, Quantitative Management Systems (1979)
B.S., National Taiwan University;
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Jafor Chowdhury (1987)

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M. Comm., B. Comm., Dacca University;

M.B.A., Dalhousie University;

Ph.D., Temple University

Joseph F. Cimini (1980)

Associate Professor, Sociology/Criminal Justice (1994)

B.A., University of Scranton;

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The Catholic University of America

John J. Clarke (1986)

Professor, Communication (1986)

A.B., University of Scranton;

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Orestes P. Coccia, S.J. (1975)

Assistant Professor, Theology/Religious Studies (1975)

A.B., Fordham University;

Th.B., Regis College, Toronto;

Ph.D., University of Strasbourg

Thomas M. Collins (1989)

Assistant Professor, Counseling and Human Resources (1992)

B.S., Kutztown University;

M.L.S., Rutgers University;

Ed. M., Temple University;

Ph.D., State University of New York at Albany

Licensed Psychologist

National Certified Counselor

Joseph W. Connolly (1983)

Professor, Physics/Electronics Engineering (1992)

Chairperson, Department of Physics/EE (1988)

B.S., University of Scranton;

M.S., University of Illinois;

Ph.D., Pennsylvania State University

Willis M. Conover (1978)

Professor, History/Political Science (1993)

B.A., B.S., Pennsylvania State University;

M.S., Ed.D., Montana State University

John R. Conway (1985)

Associate Professor, Biology (1985)

B.S., Ohio State University;

M.A., Ph.D., University of Colorado

Frank P Corcione (1978-1979, 1982)

Associate Professor, Economics/Finance (1982)

B.A., Moravian College;

M.A., Ph.D., Lehigh University

James J. Cunningham, D. et U. * (1968)

Associate Professor, Counseling and Human Services (1971)

A.B., King"s College;

Ed.M., Ed.D., Rutgers University;

Licensed Psychologist

Wayne H.J. Cunningham (1987) Associate Professor, Quantitative Management Systems (1987) B.S, M.B.A., Ph.D., Pennsylvania State University

Thomas W. Decker (1977)
Associate Professor, Counseling and Human Services (1982)
B.A., Dickinson College;
M.Ed., University of Virginia;
Ph.D., Ohio State University;

Licensed Psychologist

Certified Rehabilitation Counselor

Michael D. DeMichele, D. et U. * (1967) Professor, History/Political Science (1974) Chairperson, Department of History/ Political Science (1976) B.S., University of Scranton; M.A., Ph.D., Pennsylvania State University

Vito DelVecchio, D. et U. * (1969) Professor, Biology (1977) B.A., University of Scranton; MS., St. John's University; Ph.D., Hahnemann Medical College Graduate School

Jones DeRitter (1990) Assistant Professor, English (1990) A.B., Oberlin College; M.A., Ph.D., University of Virginia

Linda H. Desmond, R.N. (1987)
Assistant Professor, Nursing (1990)
R.N., Beebe Hospital School of Nursing;
B.S.N., Cedar Crest College;
M.S.A.N., University of Delaware;
Ed.D., Columbia University

Michael G. Dick (1992) Captain, U.S. Army Assistant Professor, Military Science (1992) B.A., King"s College

Trudy A. Dickneider (1984)
Associate Professor, Chemistry (1989)
B.A., M.A., St. Joseph's College;
Ph.D., University of Miami

Sandra L. DiGiaimo (1989)
Assistant Professor, Education (1993)
B.A., Paterson State College;
M.S., Ohio University;
Ph.D., Cand., University of Maryland

Mary Jane DiMattio (1993) Instructor, Nursing (1993) B.S., University of Scranton M.S., Villanova University

Anthony J. DiStefano, D. et U. * (1968)

Associate Professor, Physics/ Electronics Engineering (1977) B.E.E., Brooklyn Polytechnic Institute; M.A., Columbia University; Ph.D., Stevens Institute of Technology

Steven T. Dougherty (1992) Assistant Professor, Mathematics (1992) B.S., University of Scranton; M.S., Lehigh University; Ph.D., Lehigh University

James N. Dragotto (1987)
Assistant Professor, Accounting (1987)
B.S., University of Scranton;
M.B.A., Lehigh University;
J.D., Valparaiso School of Law

Joseph H. Dreisbach (1978) Professor, Chemistry (1989) Chairperson, Department of Chemistry (1991) B.A., LaSalle University; MS., Ph.D., Lehigh University

Katie S. Duke (1985) Associate Librarian (1990) B.A., California Baptist College; M.L.S., University of Oklahoma; M.S., University of Scranton

Josephine M. Dunn (1988)
Assistant Professor, Art & Music (1991)
Chairperson, Department of Art & Music (1993)
B.A., B.F.A. University of Houston;
M.A., Ph.D., University of Pennsylvania

John J. Dunstone, D. et U. * (1966) Professor, Psychology (1974) B.S., Pennsylvania State University; M.S., Ph.D., University of Massachusetts

Michael Dutko (1985-1989, 1991) Associate Professor, Mathematics (1993) B.S., Pennsylvania State University; A.M., University of Michigan; Ph.D., Pennsylvania State University

Kathleen G. Dwyer (1988) Associate Professor, Biology (1993) B.S., East Stroudsburg University; M.A., Ph.D., Princeton University

John L. Earl, III, D. et U. * (1964) Professor, History/Political Science (1972) B.S., M.A., Villanova University; Ph.D., Georgetown University

Gary E. Eichelsdorfer, D. et U. * (1965) Associate Professor, Mathematics (1979) A.B., Gannon College; M.A., University of Detroit

Laura Helene Ellis (1994)

Assistant Professor, Accounting (1994)

B.A., Carroll College;

M.A., University of Montana;

Ph.D. Cand., University of Oregon

Certified Public Accountant

Lee Ann Eschbach (1986)

Assistant Professor, Counseling and Human Services (1990)

B.S., M.S., Ph.D. Washington State University

Matthew J. Fairbanks, D. et U. * (1960)

Professor, Philosophy (1970)

B.S., M.A., Loyola University, Chicago;

Ph.D., University of Notre Dame

Margaret Fitzgerald Farr (1992)

Assistant Professor, Art and Music (1992)

B.A., Loyola University of Chicago;

M.A., Ph.D., University of North Carolina at Chapel Hill

Marian Farrell, R.N. (1990)

Assistant Professor, Nursing (1990)

B.S.N., M.S.N., College Misericordia;

Ph.D., Adelphi University

Joseph A. Fennewald (1992)

Assistant Librarian II/Reference Librarian (1994)

B.A., University of Missouri;

M.S.W., University of Kansas;

M.L.S., University of Missouri (School of Library andInformational Science)

Anthony Ferzola (1990)

Associate Professor, Mathematics (1990)

B.A., Queens College;

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Mary Anne Foley, C.N.D. (1991)

Assistant Professor, Theology and Religious Studies

B.A., Sacred Heart University;

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M. Phil., Ph.D., Yale University

Daniel V. Fraustino (1982)

Professor, English (1991)

B.A., State University of New York at Buffalo;

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Brigid Curtin Frein (1988)

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B.A., Gonzaga University;

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Michael Friedman (1991)

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B.A., Tulane University;

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David O. Friedrichs (1977)

Professor, Sociology/Criminal Justice (1991) A.B., University College of New York; M.A., New York University

Cheryl A. Fuller, R.N. (1992)
Assistant Professor, Nursing (1992)
B.S., University of Vermont;
M.S., SUNY-Binghamton, NY;
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Joseph A. Fusaro (1974)
Professor, Education (1983)
B.A., Rider College;
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Rosellen M. Garrett, R.N. (1980) Associate Professor, Nursing (1980) B.S., College Misericordia; M.S., University of Maryland; Ph.D., Medical College of Pennsylvania

Marie A. George Assistant Professor, Health Administration and Human Resources (1993) B.S., College Misericordia; M.S., University of Scranton Ph.D., University of Pennsylvania

Darla Rae Germeroth (1989) Associate Professor, Communication (1994) B.A., M.A., Kansas State University; Ph.D., University of Denver

Thomas W. Gerrity (1976)
Associate Professor, Education (1986)
B.S., University of Pennsylvania;
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Satyajit P. Ghosh (1986)
Associate Professor, Economics/Finance (1992)
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B.A., Presidency College, India;
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M.A., Ph.D, State University of New York at Buffalo

Kingsley S. Gnanendran (1989) Assistant Professor, Quantitative Management Systems (1989) B.S.C., University of Sri Lanka; M.Eng., Asian Institute of Technology; Ph.D., University of Tennessee

Irene Goll (1988)
Associate Professor, Management/Marketing (1994)
B.S., Pennsylvania State University;
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Deborah J. Gougeon (1979)

Associate Professor, Quantitative Management Systems (1988) B.S., M.S., University of Scranton; Ph.D., Walden University

Leonard G. Gougeon (1974) Professor, English (1982) B.A., St. Mary's University, Halifax; MA, Ph.D, University of Massachusetts

Gary R. Grainger (1988)
Assistant Professor, Mathematics (1989)
B.S., George Mason University;
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Ralph W. Grambo, Jr., D. et U.* (1973) Associate Professor. Economics/Finance (1978) B.S., University of Scranton; M.B.A., Ph.D., University of Pennsylvania

Ronald J. Grambo, C.P.A. (1976-77; 1980) Associate Professor. Accounting (1985) B.S., M.B.A., University of Scranton; Ph.D., Pennsylvania State University; M.S., University of Scranton

James P. Grana (1994)
Instructor, Health Administration and Human
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B.S., Abilene Christian University;
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Brian T. Greuel (1993) Assistant Professor, Biology (1993) B.S., Wheaton College; M.S., Ohio State University; Ph.D., Washington University

David Hair (1986) Assistant Professor, Physical Education (1991) B.S., M.Ed., East Stroudsburg University; M.S., University of Scranton

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Associate Professor, Counseling and HumanResources (1991)
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Licensed Psychologist
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Joyce Hanks (1989)
Associate Professor, Foreign Languages and Literatures (1989)
M.A., University of Wisconsin;
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Michael A. Hardisky (1984)

Associate Professor, Biology (1989) B.S., Lebanon Valley College; M.S., Ph.D., University of Delaware

Patricia Harrington, R.N. (1984) Assistant Professor, Nursing (1989) Chairperson, Department of Nursing (1994) B.S., Medgar Evers College; M.S., Hunter-Bellevue School of Nursing; M.Ed., Ed.D, Columbia University

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Minister of Liturgical Music/ Associate Campus Minister (1981)

B.M., Marywood College;

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Assistant Director, Recreational Sports (1986)

B.A., University of Scranton

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Nurse, Student Health Services (1991)

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Technical Director of Theatre (1993)

B.S., Northern Arizona University;

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Registrar Emeritus (1989)

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Director of Development Services and ProspectResearch (1994)

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Program Manager, CALS Shared Resources Center (1991)

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Allegheny & Chesapeake PT, Inc. Carrolltown, PA

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Arden Hill Hospital Goshen, NY

Arlington Hospital Arlington, VA

Atlantic Shore Sports Rehab, Inc. Northfield, NJ

Bacharach Rehab Hospital Pomona, NJ

Ball Memorial Hospital Muncie, IN

Barnes Kasson County Hospital Susquehanna, PA

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Bon Secours Hospital North North Miami, FL

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Broward General Medical Center Fort Lauderdale, FL

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Carlisle Hospital Carlisle, PA

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Centra State Medical Center Freehold, NJ

Chambersburg Hospital Chambersburg, PA

Chestnut Hill Hospital Philadelphia, PA

Chestnut Hill Rehabilitation Hospital Wyndmoor, PA

Child Center Silver Spring, MD

Children"s Seashore House Philadelphia, PA

Children's Specialized Hospital Mountainside, NJ

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City Avenue Hospital - Graduate Health Systems Philadelphia, PA

City Line Sports Rehabilitation Bala Cynwyd, PA

Community General Hospital Reading, PA

Community General Hospital of Sullivan County Harris, NY

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Community Medical Center Scranton, PA

Crouse Irving Memorial Hospital Syracuse, NY

Crozer Chester Medical Center Upland, PA

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Delaware County Memorial Hospital Drexel Hill, PA

Delaware Valley Medical Center Langhorne, PA

Doylestown Hospital Doylestown, PA

East Hills Rehab and Fitness Institute Johnstown, PA

East Shore Rehabilitation Harrisburg, PA

Easter Seal Society/Berks County Reading, PA

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Easter Seals Rehab Center Lancaster, PA

Easton Hospital Easton, PA

Emanuel Hospital & Rehab Center Portland, OR

Evangelical Community Hospital Lewisburg, PA

Fairlawn Rehabilitation Hospital Worcester, MA

Faulkner Physical Therapy Group, Inc. Wallingford, CT

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Francis Scott Key Medical Center Baltimore, MD

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Good Samaritan of Pottsville Pottsville, PA

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Great Lakes Rehabilitation Hospital Erie, PA

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Mercy Hospital - Johnstown Johnstown, PA

Mercy Hospital - Pittsburgh Pittsburgh, PA

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The Physical Therapy Institute at Omnifit Mt. Laurel, PA

The Woods Services Langhorn, PA

Towanda Memorial Hospital Towanda, PA

Tyler Memorial Hospital Tunkhannock, PA

Union Hospital Union, NJ

United Cerebral Palsy/Greater Suffolk Commack, NY

United Cerebral Palsy of NE PA Clarks Summit, PA

United Cerebral Palsy/Nassau Cnty Roosevelt, NY

United Health Services-Binghamton General Hospital Binghamton, NY

United Health Services-Wilson Memorial Hospital Johnson City, NY

University of Medicine &Dentistry of NJ Newark, NJ

University of Michigan Hospitals Ann Arbor, MI

University of New England Health Center Biddeford, ME

University of North Carolina Hospitals Chapel Hill, NC

University of Pittsburgh Medical Center Pittsburgh, PA

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VA Medical Center Wilkes-Barre, PA

Visiting Nurse Association Easton, PA

VNA/Home Health Maintenance Organization Scranton, PA

Wayne Memorial Hospital Honesdale, PA

Welkind at Beaver Brook Annadale, NJ

Welkind Rehab Hospital Chester, NJ

Wilkes-Barre General Hospital Wilkes-Barre, PA

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