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Where Potential Becomes Achievement in the Jesuit Tradition

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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, disabilities, sex or age.
<table>
<thead>
<tr>
<th>TABLE OF CONTENTS</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>WHERE POTENTIAL BECOMES ACHIEVEMENT</td>
<td>5</td>
</tr>
<tr>
<td>Mission of the University</td>
<td>6</td>
</tr>
<tr>
<td>The Campus</td>
<td>8</td>
</tr>
<tr>
<td>A Faculty of Teachers and Scholars</td>
<td>11</td>
</tr>
<tr>
<td>Student Diversity and Participation</td>
<td>11</td>
</tr>
<tr>
<td>Indices of Achievement</td>
<td>12</td>
</tr>
<tr>
<td>ACADEMIC PROGRAM</td>
<td>17</td>
</tr>
<tr>
<td>Degrees, Curriculum &amp; Distribution Table</td>
<td>18</td>
</tr>
<tr>
<td>Freshman Option: General Area Studies</td>
<td>22</td>
</tr>
<tr>
<td>Academic Regulations</td>
<td>23</td>
</tr>
<tr>
<td>Honor Societies</td>
<td>29</td>
</tr>
<tr>
<td>Special Programs</td>
<td>32</td>
</tr>
<tr>
<td>Special Jesuit Liberal Arts</td>
<td>32</td>
</tr>
<tr>
<td>Honors</td>
<td>34</td>
</tr>
<tr>
<td>Eastern Christian Studies/Russian and East European Studies</td>
<td>35</td>
</tr>
<tr>
<td>Human Development</td>
<td>37</td>
</tr>
<tr>
<td>Peace and Justice</td>
<td>38</td>
</tr>
<tr>
<td>Women's Studies Concentration</td>
<td>39</td>
</tr>
<tr>
<td>Other Special Programs</td>
<td>40</td>
</tr>
<tr>
<td>Pre-Law Program</td>
<td>42</td>
</tr>
<tr>
<td>Health Professions Program</td>
<td>44</td>
</tr>
<tr>
<td>Aerospace Studies</td>
<td>45</td>
</tr>
<tr>
<td>THE COLLEGE OF ARTS AND SCIENCES</td>
<td>47</td>
</tr>
<tr>
<td>Art and Music</td>
<td>48</td>
</tr>
<tr>
<td>Biology</td>
<td>52</td>
</tr>
<tr>
<td>Chemistry</td>
<td>57</td>
</tr>
<tr>
<td>Biochemistry</td>
<td>58</td>
</tr>
<tr>
<td>Chemistry-Business</td>
<td>59</td>
</tr>
<tr>
<td>Chemistry-Computers</td>
<td>60</td>
</tr>
<tr>
<td>Medical Technology</td>
<td>61</td>
</tr>
<tr>
<td>Communication</td>
<td>65</td>
</tr>
<tr>
<td>Computing Sciences</td>
<td>71</td>
</tr>
<tr>
<td>Computer Information Systems</td>
<td>72</td>
</tr>
<tr>
<td>Criminal Justice</td>
<td>75</td>
</tr>
<tr>
<td>Economics</td>
<td>78</td>
</tr>
<tr>
<td>Electronics Engineering</td>
<td>79</td>
</tr>
<tr>
<td>Electronics-Business</td>
<td>80</td>
</tr>
<tr>
<td>Pre-Engineering</td>
<td>81</td>
</tr>
<tr>
<td>English</td>
<td>84</td>
</tr>
<tr>
<td>Theatre</td>
<td>91</td>
</tr>
<tr>
<td>Writing</td>
<td>93</td>
</tr>
<tr>
<td>Environmental Science</td>
<td>94</td>
</tr>
<tr>
<td>Foreign Languages and Literatures</td>
<td>96</td>
</tr>
<tr>
<td>International Language-Business</td>
<td>98</td>
</tr>
<tr>
<td>History</td>
<td>104</td>
</tr>
<tr>
<td>Department</td>
<td>Page</td>
</tr>
<tr>
<td>----------------------------------</td>
<td>------</td>
</tr>
<tr>
<td>Mathematics</td>
<td>109</td>
</tr>
<tr>
<td>Military Science</td>
<td>112</td>
</tr>
<tr>
<td>Neuroscience</td>
<td>114</td>
</tr>
<tr>
<td>Philosophy</td>
<td>115</td>
</tr>
<tr>
<td>Physics</td>
<td>120</td>
</tr>
<tr>
<td>Biophysics</td>
<td>121</td>
</tr>
<tr>
<td>Political Science</td>
<td>124</td>
</tr>
<tr>
<td>Public Administration-Public Affairs</td>
<td>125</td>
</tr>
<tr>
<td>International Studies</td>
<td>126</td>
</tr>
<tr>
<td>Psychology</td>
<td>130</td>
</tr>
<tr>
<td>Sociology</td>
<td>134</td>
</tr>
<tr>
<td>Gerontology</td>
<td>135</td>
</tr>
<tr>
<td>Theology and Religious Studies</td>
<td>139</td>
</tr>
<tr>
<td>Interdisciplinary Studies</td>
<td>144</td>
</tr>
<tr>
<td>SCHOOL OF MANAGEMENT</td>
<td>145</td>
</tr>
<tr>
<td>Accounting</td>
<td>148</td>
</tr>
<tr>
<td>Economics/Finance</td>
<td>152</td>
</tr>
<tr>
<td>International Business</td>
<td>157</td>
</tr>
<tr>
<td>Management/Marketing</td>
<td>158</td>
</tr>
<tr>
<td>Operations and Information Management</td>
<td>163</td>
</tr>
<tr>
<td>COLLEGE OF HEALTH, EDUCATION, AND HUMAN RESOURCES</td>
<td>165</td>
</tr>
<tr>
<td>Counseling and Human Services</td>
<td>166</td>
</tr>
<tr>
<td>Education</td>
<td>169</td>
</tr>
<tr>
<td>Health Administration and Human Resources</td>
<td>183</td>
</tr>
<tr>
<td>Long-Term Care Administration</td>
<td>184</td>
</tr>
<tr>
<td>Nursing</td>
<td>186</td>
</tr>
<tr>
<td>Occupational Therapy</td>
<td>190</td>
</tr>
<tr>
<td>Physical Education</td>
<td>193</td>
</tr>
<tr>
<td>Physical Therapy</td>
<td>194</td>
</tr>
<tr>
<td>DEXTER HANLEY COLLEGE</td>
<td>199</td>
</tr>
<tr>
<td>Admission Information</td>
<td>200</td>
</tr>
<tr>
<td>Baccalaureate Degrees</td>
<td>203</td>
</tr>
<tr>
<td>Associate Degrees and Certificates</td>
<td>206</td>
</tr>
<tr>
<td>SAINT PIUS X SEMINARY</td>
<td>219</td>
</tr>
<tr>
<td>THE GRADUATE SCHOOL</td>
<td>221</td>
</tr>
<tr>
<td>OUTSIDE THE CLASSROOM</td>
<td>223</td>
</tr>
<tr>
<td>Extracurricular Activities</td>
<td>224</td>
</tr>
<tr>
<td>Athletics</td>
<td>225</td>
</tr>
<tr>
<td>Student Services</td>
<td>227</td>
</tr>
<tr>
<td>ADMISSION, EXPENSES, FINANCIAL AID</td>
<td>229</td>
</tr>
<tr>
<td>SCHOLARSHIPS AND FINANCIAL AID</td>
<td>235</td>
</tr>
<tr>
<td>UNIVERSITY DIRECTORY</td>
<td>249</td>
</tr>
<tr>
<td>ACCREDITATIONS</td>
<td>278</td>
</tr>
<tr>
<td>ASSOCIATION OF JESUIT COLLEGES</td>
<td>279</td>
</tr>
<tr>
<td>INDEX</td>
<td>280</td>
</tr>
</tbody>
</table>
The University of Scranton was founded in 1888 by Bishop William O'Hara. 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

1. 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, on 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 programs 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 socioeconomic 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 63 buildings, including 15 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 Electronic Commerce Resource 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, 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 a “Food Court.” Also included are staff and student lounges, snack bar, game room, and the 400-seat Eagen Auditorium. The building also houses the Offices of the Vice Presidents for Student Affairs and University Ministry, Student Government and Commuter Affairs.

JEFFERSON HALL—Houses residence facilities, offices, classrooms and laboratories for the Departments of Physical Therapy and Occupational Therapy, and a small auditorium.

UNIVERSITY COMMONS AND 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, former president of the University of Scranton and former 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 studios for the University’s Fine Arts Department and offices for the Army Reserve Officer Training Corps. 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 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 around 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. 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; nursing service for emergencies and short-term care in the infirmary.
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.

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 333,000 volumes, 2,053 periodical subscriptions, 307,000 microforms, and 9,372 non-print items. 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 filmstrips. 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 the Student Health Services, the Drug and Alcohol Information Center, and an area leased to the Scranton police department.

ECRC (Electronic Commerce Research Center)—This project, to be completed by October 1995, consists of a 16,000 square-foot facility on two floors located between the Harper-McGinnis Wing of St. Thomas Hall and the John Long Center. The building will span Catlin Court and connect to the fourth and fifth floors of St. Thomas Hall. This facility will complement the existing Computed Aided Logistics Support (CALS) program and provide a new television studio as well as production space.

PARKING STRUCTURE—This five-story project, to be completed by September 1995, is located at the corner of Mulberry St. and Monroe Ave. It will provide parking for approximately 515 cars as well as offices for the Department of Public Safety. The facility is a precast concrete structure with the primary entrance on Monroe Ave. and the primary exit to McKenna Court.

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, Salamanca, Lancaster, 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 29,000 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 Director’s 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 (’33), 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 schools — including the nation’s most prestigious — is documented in the Health Professions 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 29,000 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 24 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, two University students have been awarded Fulbright Fellowships to conduct research and graduate studies overseas during the 1995-96 academic year. Jason Cascaro, who majored in History and minored in Political Science will spend 1996 at Victoria University in Wellington, New Zealand, conducting research on New Zealand’s foreign policy toward China. Renee Kupetz, who majored in International Language/Business, will spend the year at the Albert-Ludwigs University of Freiburg in Germany, where she will research the effects of environmental policy on German business.

Four members of the class of 1994 also were awarded Fulbright fellowships. Margaret Mary Hricko, a biochemistry major, conducted research at the University of Oviedo in Spain. Brian Zarzecki, a double major in history and political science, is spending 1995 as a Fulbright fellow at the University of Namibia in Windhoek, Namibia. Terrence Kossegi, who double majored in history and political science, conducted research as a Fulbright Fellow at Quaid-i-Azam University in Islamabad, Pakistan. The fourth winner for 1994-95, was Karis Lawlor, a triple major in English, German, and Secondary education, who spent her year in Germany as a Teaching Assistant at a school in Lower Saxony in Germany.

In recognition of the late 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, 1980-1995

1980
Veronica Cardiff ................................................................. Germany
Stephen Carlin ................................................................. Chile
Michael Corbley ............................................................... Switzerland
Maryann L. Heckman ........................................................ Uruguay
Helen Hricko Haney .......................................................... Germany

1981
Patrick Cumberland .......................................................... Uruguay
Arlene Drack (ITT) ............................................................. Norway
Deborah Krzywiec ............................................................. Germany
Irene Mlodzinski ............................................................... Switzerland
Mark Wisniewski ............................................................... Switzerland
Brian Wynne ................................................................. Germany

1982
Michael Kondracki ........................................................... Peru
Bernadine Brennan-Moglia (ITT) ........................................ Finland
Kathleen Flanagan ............................................................. Belgium
Joseph Piccirilli ............................................................... Germany
Howard Sorensen ............................................................. Uruguay
Elizabeth Veca ................................................................. Switzerland
Leon Xavier Zawacki ......................................................... Germany

1983
Erin Brennan ................................................................. Germany
Patrick Davies (ITT) ........................................................... Chile
Peter Regeski ................................................................. France
Joseph Tuncavage ........................................................... Switzerland
Christopher Wahren ........................................................ Germany

1984
Robert Conforti ............................................................... Switzerland
Kathleen Flanagan ........................................................... France
Colette Mazzucelli ........................................................... Switzerland
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<th>Year</th>
<th>Name</th>
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<td>John Beltrami</td>
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<td>Michele Gieger</td>
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<td>Marguerite Pedley</td>
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<td>Louise Vogel</td>
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<td>James Lavelle</td>
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<td>Robert Rabecs</td>
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<td></td>
<td>Janet Schubert</td>
<td>Belgium</td>
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<td>DeLoris Spegar</td>
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<td></td>
<td>Roy Whitman</td>
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<tr>
<td></td>
<td>Ann Marie Laskiewicz Ross</td>
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<td>1987</td>
<td>Susan Conway</td>
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<tr>
<td></td>
<td>Kathleen Gallagher</td>
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<td></td>
<td>Margaret Keen</td>
<td>France</td>
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<td></td>
<td>Kevin Wright</td>
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<td>1988</td>
<td>Michel Aboutanos</td>
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<td></td>
<td>Jeffrey Gabello</td>
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<td></td>
<td>Christine O’Brien</td>
<td>Kenya</td>
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<td></td>
<td>Mary Yuen</td>
<td>Singapore</td>
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<tr>
<td>1989</td>
<td>Kim Marie Newak</td>
<td>Germany</td>
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<td>1990</td>
<td>Caroline Parente</td>
<td>Uruguay</td>
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<td>1991</td>
<td>Daniel Jurgelewicz</td>
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<td>Thomas Spoto</td>
<td>Singapore</td>
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<td>1992</td>
<td>Maureen Cronin</td>
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<td></td>
<td>Alissa Giancarlo</td>
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<td></td>
<td>Thomas Kish</td>
<td>Hungary</td>
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<td></td>
<td>Jennifer Murphy</td>
<td>Denmark</td>
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<td></td>
<td>Neal Rightley</td>
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<td>Salvatore Tirrito</td>
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<td></td>
<td>Denise Udvarhely</td>
<td>New Zealand</td>
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<tr>
<td>1993</td>
<td>Timothy Gallagher</td>
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<tr>
<td></td>
<td>Susan Kavalow</td>
<td>South Korea</td>
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<td></td>
<td>Jennifer Kelly</td>
<td>Uruguay</td>
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<tr>
<td></td>
<td>Alan Landis</td>
<td>Colombia</td>
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<tr>
<td></td>
<td>Beth LiVolsi</td>
<td>Italy</td>
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<tr>
<td></td>
<td>Colleen McInerney</td>
<td>Australia</td>
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<tr>
<td></td>
<td>Jennifer Seva</td>
<td>Argentina</td>
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<tr>
<td>1994</td>
<td>Margaret Mary Hricko</td>
<td>Spain</td>
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<tr>
<td></td>
<td>Terrence Kossegi</td>
<td>Pakistan</td>
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<tr>
<td></td>
<td>Karis Lawlor</td>
<td>Germany</td>
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<tr>
<td></td>
<td>Brian Zarzecki</td>
<td>Namibia</td>
</tr>
<tr>
<td>1995</td>
<td>Jason Cascarino</td>
<td>New Zealand</td>
</tr>
<tr>
<td></td>
<td>Renee Kupetz</td>
<td>Germany</td>
</tr>
</tbody>
</table>
RECENT INTERNATIONAL FELLOWSHIP WINNERS

Karis Lawlor (1994)  
Germany

Margaret Mary Hricko (1994)  
Spain

Brian Zarzecki (1994)  
Namibia

Susan Kavalow (1993)  
South Korea

Terrence Kossegi (1994)  
Pakistan

Jennifer Kelly (1993)  
Uruguay

Colleen McInerney (1993)  
Australia

Jennifer Seva (1993)  
Argentina

Timothy Gallagher (1993)  
New Zealand
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:

<table>
<thead>
<tr>
<th>BACHELOR OF ARTS</th>
<th>BACHELOR OF SCIENCE</th>
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</thead>
<tbody>
<tr>
<td>Classical Languages</td>
<td>Accounting</td>
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<tr>
<td>Communication</td>
<td>Biochemistry</td>
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<tr>
<td>English</td>
<td>Biology</td>
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<tr>
<td>French</td>
<td>Biophysics</td>
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<td>German</td>
<td>Chemistry</td>
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<tr>
<td>History</td>
<td>Chemistry-Business</td>
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<tr>
<td>Interdisciplinary Studies</td>
<td>Computer Information</td>
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<tr>
<td>International Language Business</td>
<td>Computer Science</td>
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<tr>
<td>Philosophy</td>
<td>Criminal Justice</td>
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<tr>
<td>Spanish</td>
<td>Economics</td>
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<tr>
<td>Theology and Religious Studies</td>
<td>Elementary Education</td>
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<td>Environmental Science</td>
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<td>Finance</td>
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<td>Electronics Engineering</td>
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<td>Electronics-Business</td>
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<td>Gerontology</td>
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<td>Health Administration</td>
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<td>International Studies</td>
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<td>Liberal Studies*</td>
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<td></td>
<td>Management</td>
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<td>Marketing</td>
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<td>Mathematics</td>
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<td>Political Science</td>
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<td>Psychology</td>
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<td>Public Administration</td>
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<tr>
<td></td>
<td>and Public Affairs</td>
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<td>Secondary Education</td>
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<td>Sociology</td>
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ASSOCIATE IN ARTS*

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<th>ASSOCIATE IN SCIENCE</th>
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<tr>
<td>Business</td>
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<td>Computer Information Systems</td>
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<td>Criminal Justice</td>
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*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.

THESCRANTON 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 theologi-
cal 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 Concentration | ..........................................................36 credits |
| Cognates Related to Major | ..........................................................24 credits |
| General Education | ..........................................................67 credits |
| Residency Requirements | ≤63 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.

A. **Physical Education**—Four credits via .5 or 1.0 credit courses ...................4 credits

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 one’s 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.

2. 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 service 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 conversant 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 signatures of the appropriate Dean and the agreement of the two pertinent departmental chairpersons should be obtained. A second major consists 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 fewer 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, seventy-two students in the class of ’93, and seventy-eight students in the class of ’94 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 202.

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, Economics, English, Foreign Language, Gerontology, History, Human Services, Health Administration, International Studies, Mathematics, Music Literature, Operations Management, Philosophy, Physics, Political Science, Public Administration, Psychology, Sociology, 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.
### DISTRIBUTION TABLE

|--------------|-------------|--------------|-------------------|--------------------|-----------------|------------|-----------------------------|--------------------|

<table>
<thead>
<tr>
<th>General Education Areas</th>
<th>a</th>
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<tbody>
<tr>
<td>I. Natural Science &amp; Quantitative Studies</td>
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<td>II. Social and Behavioral Sciences</td>
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<td>IV. Humanities (History, English and Foreign Literature, Advanced Language**, Art History, Music)</td>
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<td>6</td>
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<td>18</td>
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<tr>
<td>V. Philosophy and Theology***</td>
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<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>9</td>
<td>6</td>
</tr>
<tr>
<td>Philosophy</td>
<td>(6)</td>
<td>(6)</td>
<td>(6)</td>
<td>(6)</td>
<td>(6)</td>
<td>(3)</td>
<td>(6)</td>
</tr>
<tr>
<td>Theo./Religious Studies</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>Free Area****</td>
<td>6</td>
<td>9</td>
<td>9</td>
<td>9</td>
<td>12</td>
<td>3</td>
<td>0</td>
</tr>
</tbody>
</table>

### 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 105, 106, 210, 230, 231, 235 and specified Special Topics courses 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.

**General Area: Humanities***

<table>
<thead>
<tr>
<th>MAJOR/</th>
<th>Two sequences from Hist. 110-111, Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>COGNATE</td>
<td>Hist. 120-121, Engl. 140-164,</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Comm. 110-120, Lang. 211-212</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>or 311-312</td>
<td></td>
</tr>
<tr>
<td>GE AREA I</td>
<td>Nat. Sci./Quan.</td>
<td>0-4</td>
</tr>
<tr>
<td>GE AREA II</td>
<td>Social/Behavior Electives</td>
<td>3</td>
</tr>
<tr>
<td>GE AREA III</td>
<td>Communications Electives</td>
<td>3</td>
</tr>
<tr>
<td>GE AREA V</td>
<td>Phil. 120 or T/R 121 Intro. to Phil. or Theo.</td>
<td>0-3</td>
</tr>
<tr>
<td>PHYS EDUC</td>
<td>Advising Seminar/Phys. Ed.</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>16/17</td>
</tr>
</tbody>
</table>

**General Area: Natural Science***

<table>
<thead>
<tr>
<th>MAJOR/</th>
<th>Two or three sequences from 8 1/2-13 8 1/2-13 Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>COGNATE</td>
<td>Biol. 141-142, Chem. 112-113, Phys. 140-141,</td>
<td>8/13</td>
</tr>
<tr>
<td></td>
<td>Math 103-114, (or 114-21), Math 142-114,</td>
<td>8/13</td>
</tr>
<tr>
<td></td>
<td>CMPS 134-144**</td>
<td></td>
</tr>
<tr>
<td></td>
<td>GE AREA III Communications Electives</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>GE AREA IV Humanities* Electives</td>
<td>0-3</td>
</tr>
<tr>
<td></td>
<td>GE AREA V</td>
<td>Phil. 120 or T/R 121 Intro. to Phil. or Theo. 3</td>
</tr>
<tr>
<td>PHYS EDUC</td>
<td>Advising Seminar/Phys. Ed.</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>15 1/2/17</td>
</tr>
</tbody>
</table>

**General Area: Social Science***

<table>
<thead>
<tr>
<th>MAJOR/</th>
<th>Two sequences from Psych 110-Elective Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>COGNATE</td>
<td>Soc. 110-112, Soc. 110-Gero. 110,</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Pol. Sci. 110-111, Pol. Sci. 130-131,</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>HS 111-112, Soc. 110-CJ 110, Educ. 222-121</td>
<td></td>
</tr>
<tr>
<td></td>
<td>GE AREA I</td>
<td>Nat. Sci./Quant. Elective</td>
</tr>
<tr>
<td></td>
<td>GE AREA III Communications Electives</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>GE AREA IV Humanities Electives</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>GE AREA V</td>
<td>Phil. 120 or T/R 121 Intro. to Phil. or Theo.</td>
</tr>
<tr>
<td>PHYS EDUC</td>
<td>Advising Seminar/Phys. Ed.</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>16/17</td>
</tr>
</tbody>
</table>

**General Area: Business***

<table>
<thead>
<tr>
<th>MAJOR/</th>
<th>Econ. 153-154 Prin. of Micro.-Macro. Econ. Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>GE AREA I</td>
<td>Math Option</td>
<td>3/4</td>
</tr>
<tr>
<td>GE AREA III</td>
<td>Communications Electives</td>
<td>3</td>
</tr>
<tr>
<td>GE AREA IV</td>
<td>Humanities Electives</td>
<td>3</td>
</tr>
<tr>
<td>GE AREA V</td>
<td>Phil. 120-T/R 121 Intro. to Phil-Theo.</td>
<td>3</td>
</tr>
<tr>
<td>PHYS EDUC</td>
<td>Phys. Ed.</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>16/17</td>
</tr>
</tbody>
</table>

* 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.
ACADEMIC REGULATIONS

DEGREE REQUIREMENTS

Students beginning the first term of their degree/certificate program (matriculating) at the University of Scranton in the 1995-96 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 Registrar’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. 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 other serious reason, an Incomplete may be given. To remove this grade the student must satisfy all course requirements by 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. 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 student’s 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 sent to the student.

FINAL EXAMINATION CONFLICTS
1. When a student has 3 or more examinations scheduled on the same day, according to the examination schedule issued by the Registrar’s Office, it is the student’s option whether to take all 3 examinations on the same day or to have one rescheduled.
2. If the student wishes to have one of the 3 examinations rescheduled, the examination with the lowest priority will be rescheduled, based on the following order of priority:
   - Major Course – first priority
   - Cognate course – second priority
   - Elective course – third priority
3. Where a conflict exists between two courses of the same kind (e.g., two cognates or two electives), the more senior professor—in terms of years of service at the University of Scranton—will have first priority.
4. If the student wishes to reschedule a conflict examination, he/she must advise the faculty member prior to Dead Week. If an appropriate resolution cannot be reached between the student and the faculty member, the student should contact his/her dean.
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
- 200-299 lower division courses
- 300-399 upper division courses
- 400-499 advanced undergraduate courses
- 500 and above are graduate courses

In cases where no specific prerequisite is listed in the course description, 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:

- 100–199 General education courses
- 200–299 Courses which may apply either to major or general education requirements
- 300–399 Courses available for major (also minor and required cognate) credit
- 400–499 Thesis
- 500–599 Independent study courses
- 600–699 Special topics
- 700–799 Seminars
- 800–899 Honors Courses
- 900–999 Research

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.

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 (30/15).

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 cumulative 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 extra-curricular 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 chairperson. 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 student’s 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 dean’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 Withdrawal/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 Registrar’s 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 student’s 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 skolasiston nikphoron*-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:

1969 Prof. Lawrence Mann †
1970 Prof. Frank Brown †
1971 Prof. Thomas Garrett
1972 Prof. Michael DeMichele
1973 Prof. Bernard Williams
1974 Rev. Bernard Suppe, S.J.
1975 Rev. Edward Gannon, S.J. †
1976 Prof. Robert A. Sallavanti
1977 Prof. John P. McLean
1978 Prof. Charles J. Thoman
1979 Prof. Urban von Wahlde
1980 Prof. J. Brian Benestad
1982 Prof. Harold Baillie
1983 Prof. E. Springs Steele
1984 Prof. John Earl
1985 Prof. Michael C. Cann
1986 Prof. Joseph T. Evans
1997 Prof. Richard Klonoski
1989 Prof. Stephen Whittaker
1990 Prof. Brian W. Carpenter
1991 Prof. Susan Mathews
1992 Dr. Willis M. Conover
1993 Dr. Robert L. McKeage
1994 Dr. Robert E. Hueston

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: ranking in the top 10% of the class 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 an overall GPA of 3.0 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 843 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.

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.

PHI LAMBDA UPSILON  
The 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. Basic requirements: 18 credits in criminal justice; an overall GPA of 3.2; a 3.2 GPA in Criminal Justice.

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 Iota 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/travel 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.

OMEGA BETA SIGMA
The Business Honor Society for women founded at the University of Scranton in 1982, Basic requirements: at least sophomore standing and business as a major or minor and a GPA of 3.25.
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.

<table>
<thead>
<tr>
<th>Dept. and No.</th>
<th>Fall Semester</th>
<th>Spring Semester</th>
<th>Credits</th>
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<tbody>
<tr>
<td></td>
<td>Major/Cognate</td>
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<td>6-9</td>
</tr>
<tr>
<td></td>
<td>Modern or Classical</td>
<td>Modern or Classical</td>
<td>3</td>
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<tr>
<td>Phil 120J-210J</td>
<td>Intro to Philosophy</td>
<td>Ethics</td>
<td>3</td>
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<tr>
<td>T/RS 121J-Comm 100J</td>
<td>Theology I</td>
<td>Public Speaking</td>
<td>3</td>
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<td>Phys. Educ.</td>
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<td>Physical Education</td>
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<tr>
<td></td>
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<td>T/RS 122J-N. Sci. 110J</td>
<td>Theology II</td>
<td>Scientific Ideas *</td>
<td>3</td>
</tr>
<tr>
<td>Phil. 217J-311J</td>
<td>The Trivium</td>
<td>Metaphysics</td>
<td>3</td>
</tr>
<tr>
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<td>Major/Cognate</td>
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<tr>
<td>T/RS 231J-Elective</td>
<td>Social Ethics</td>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td>Hum 311J-312J</td>
<td>Masterworks I</td>
<td>Masterworks II</td>
<td>3</td>
</tr>
<tr>
<td>SS 110J-Phil. 322J</td>
<td>Social Science*</td>
<td>Philosophy of Conscience</td>
<td>3</td>
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<tr>
<td></td>
<td>Major</td>
<td>Major</td>
<td>6</td>
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<tr>
<td>Electives</td>
<td>Elective</td>
<td>Elective</td>
<td>3</td>
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<td>Phil 412J-413J</td>
<td>Art and Metaphysics</td>
<td>The End of Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>T/RS 319J-Elective</td>
<td>Theological Topics</td>
<td>Elective</td>
<td>3</td>
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</table>

TOTAL: 130-145 credits

* Some majors are exempt.

PHIL. 120J Fr. McKinney
Introduction to Philosophy 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.

PHIL. 210J Dr. Klonoski
Ethics 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?”

PHIL. 311J 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.

PHIL. 217J 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.
PHIL 322J  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.

PHIL 412J  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 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.

PHIL 413J  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
Teology 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
Teology 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  Prof. J. Benestad/Fr. McKinney
Masterworks I-II  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.

NSCI 110J  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.

COMM 100J  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 and/or 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.

SJLA students are eligible to apply for the Christopher Perfilio Memorial Scholarships awarded each year beginning in 1995.
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, Elements of Natural Science, and Science Over the Edge. 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

<table>
<thead>
<tr>
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<th>Spring</th>
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<tbody>
<tr>
<td>Sophomore Year:</td>
<td>Application</td>
<td>Hum. 286H or NS 286H</td>
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<tr>
<td></td>
<td>1 or 2 tutorials</td>
<td>1 or 2 tutorials</td>
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<tr>
<td>Junior Year:</td>
<td>Honors Project</td>
<td>Honr. 387H: Junior Honors Seminar</td>
</tr>
<tr>
<td></td>
<td>Honr. 489H: Senior Honors Seminar</td>
<td>Honors Project</td>
</tr>
<tr>
<td>Senior Year:</td>
<td></td>
<td>Defense of Project</td>
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</table>

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 America’s 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.

1. 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.

2. 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 228 Ancient History (IV) T/RS 225 Intro. to Theology of the Eastern
REES 235 Russian and East European Culture (IV) Churches (V)

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 T/RS 310 Liturgical Theology of the
Liturgies (V) Byzantine Churches (V)
T/RS 325 Eastern Christian T/RS 311 Introduction to
Spirituality (V) Greek Fathers (V)

STATE
HIST 225 Imperial Russia (IV) HIST 227 Soviet Foreign Policy (IV)
HIST 226 Russian Revolution (IV) and Its Aftermath

CULTURE
RUSS 101/102 Elementary Russian (III) REES 225 Russian and East European
RUSS 211/212 Intermediate Russian (III) Literature (IV)
GREEK 113/114 New Testament Greek (III) MUS 123 Russian and East European Music (IV)
ARTH 203 Early Christian & Byzantine Art (IV)

35
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)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>REES 140</td>
<td>Russian and East European Culture (IV)</td>
</tr>
<tr>
<td>REES 325</td>
<td>Senior Seminar in REES (IV)</td>
</tr>
</tbody>
</table>

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

**RELIGION AND PHILOSOPHY**

<table>
<thead>
<tr>
<th>Course</th>
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<tr>
<td>T/RS 225</td>
<td>Intro. to Theology of the Eastern Churches (V)</td>
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<tr>
<td>T/RS 226</td>
<td>Intro to Eastern Liturgies (V)</td>
</tr>
<tr>
<td>PHIL 219</td>
<td>Russian Philosophy (V)</td>
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**STATE**

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<tr>
<td>GEOG 134</td>
<td>World Regional Geography (II)</td>
</tr>
<tr>
<td>HIST 225</td>
<td>Imperial Russia (IV)</td>
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<tr>
<td>H/PS 227</td>
<td>Soviet Foreign Policy (IV)</td>
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**CULTURE**

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<tr>
<td>MUS 125</td>
<td>Russian and East European Music (IV)</td>
</tr>
<tr>
<td>ARTH 205</td>
<td>The Icon in Russian and East European Art (IV)</td>
</tr>
<tr>
<td>RUSS 101/102</td>
<td>Elementary Russian (III)</td>
</tr>
<tr>
<td>RUSS 211/212</td>
<td>Intermediate Russian (III)</td>
</tr>
</tbody>
</table>

**REES 140**  
**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**  
This course will examine Polish, Czech, Romanian, East German, and Russian literature of the nineteenth and twentieth centuries with emphasis on the themes of the alienation of human life and the search for the transcendent. Among the authors to be read and discussed are Reymont, Sienkiewicz, Lem, Capek, Ionesco, Tolstoy, Dostoyevsky and Chekhov.

**REES 335**  
**Senior Seminar in REES**  
(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 219**  
**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 credits  
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 medieval through 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)
4) Case Management & Interviewing (HS 241)
5) Clinical Psychology (Psych. 360) or Counseling Theories (HS 242) or Introduction to Social Work (Soc. 115)
6) 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 (HS 323), Marital and Family Therapy (HD 234), Marital and Family Counseling (HS 334), or Behavior Modification (Psych. 284).
8) Field Experience in Clinical Psychology (Psych. 480) or Internship in Human Services (HS 380) or Internship in Social Work (Soc. 480)

HUMAN DEVELOPMENT COURSES

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Instructor</th>
<th>Prerequisites</th>
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<tbody>
<tr>
<td>HD 224</td>
<td>Family Development</td>
<td>3</td>
<td>Dr. Buchanan</td>
<td>(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.</td>
</tr>
<tr>
<td>HD 234</td>
<td>Marital and Family Therapy</td>
<td>3</td>
<td>Dr. Norcross</td>
<td>(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.)</td>
</tr>
<tr>
<td>HD 335</td>
<td>Exceptional Child</td>
<td>3</td>
<td>Staff</td>
<td>Staff</td>
</tr>
</tbody>
</table>
PEACE AND JUSTICE STUDIES PROGRAM

DR. FREIN, Coordinator

The Peace and Justice Studies program seeks to contribute to the student’s 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)

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

C. Integrative Capstone Course: (required in Jr./Sr. year)
- Toward a Just and Peaceful World (TJP 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 social/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 his/her major area of concentration.
WOMEN’S STUDIES CONCENTRATION
DR. LINDA LEDFORD-MILLER, Director

The Women’s Studies concentration consists of both interdisciplinary and single-discipline courses which examine women’s experiences 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 and/or general education requirements.

Students may seek permission from the Women’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 women’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

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>Engl 225</td>
<td>Writing Women</td>
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<td>Engl 227</td>
<td>Frankenstein's Forebears</td>
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<tr>
<td>Engl 317</td>
<td>Race in Anglo-American Culture, 600-2680</td>
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<td>Fren 430</td>
<td>French Women Writers</td>
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<td>Hist 238</td>
<td>History of American Women II</td>
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<td>Hist 239</td>
<td>History of American Women II</td>
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<td>H/PS 216</td>
<td>Gender and the Work Force</td>
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<td>Lit 207</td>
<td>Literature of American Minorities</td>
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<tr>
<td>Mgt 472</td>
<td>Women in Management</td>
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<tr>
<td>Nurs 111</td>
<td>Women's Health</td>
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<tr>
<td>WOMN 490</td>
<td>Women's Studies Seminar, 3 credits</td>
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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.

*taught in the original language: see departmental descriptions for prerequisites
OTHER SPECIAL PROGRAMS

THREE-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 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 Prep/University 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, Kansai University in Japan, and the University of San Jose in Costa Rica. Interested students should contact Dr. Mary Engel, the Associate Dean of the College of Arts and Sciences or Michael Simons, Foreign Study Advisor.

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 nine different hospitals in New Jersey and Pennsylvania.

Students majoring in Physical Therapy select internships from some 275 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 a required internship in a variety of settings including hospitals, nursing homes, rehabilitation centers, and related health agencies and may serve a second internship. Those with a concentration in long-term care administration must also serve two 520-hour internships in a long-term care facility.

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; KPMG Peat 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 General’s Office), and the Pennsylvania Department of Community Affairs.

Computing Sciences majors 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, 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/P 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. 217J — The Trivium
Phil. 319 — Philosophy of Law                     Phil. 227 — Political Philosophy
Comm. 210 — Logical and Rhetorical Analysis
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
- C/CJ 200 — Forensic Chemistry
- Pol.Sci. 240-241 — Social Science Statistics I-II
- 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.
HEALTH PROFESSIONS PROGRAM
The success of the University’s Health Professions Program has been outstanding. Since 1980, the University has placed an average of over 50 students per year into American schools of medicine, dentistry, optometry, podiatry and veterinary medicine, often in the most prestigious schools in the country.

The University of Scranton offers its health professions students unique opportunities in anticipation of changes in health care delivery for the twenty-first century. This includes a special exposure to primary care medicine (the practice of family physicians, general internists and general pediatricians), predicted to be the area of greatest growth in medicine. Students have an opportunity to participate in an undergraduate primary care internship through the Scranton-Temple Residency Program. Students have the opportunity to accompany physicians at Scranton Mercy and Moses Taylor Hospitals to gain exposure to clinical settings in primary care medicine. Students gain transcript recognition for participation in this internship.

Moreover, the University of Scranton is one of only six undergraduate institutions participating in the Jefferson Medical College Physician Shortage Area Program (PSAP). This program is designed to recruit and educate medical students who intend to enter Family Medicine and practice in physician shortage areas in Pennsylvania. Finally, University of Scranton students are encouraged to participate in programs at the Center for Primary Care at the Penn State College of Medicine, Hershey.

The Health Professions Program is supported by a network of hundreds of medical alumni and by a Medical Alumni Council. The Medical Alumni Council has completed a directory of physicians who have agreed to serve as resources for information or internship opportunities for University of Scranton students.

Health Professions Undergraduate Curricula — Many undergraduate students who intend to apply to health professions schools choose Biology as their major. However, students may choose any major, provided that they meet the requirements for entrance to medical or dental school. For students at the University of Scranton, the minimum requirements are:

Biology 141 and 142
Chemistry 232 and 233
Chemistry 112 and 113
Physics 120 and 121

Some medical and dental schools also have specific prerequisites for English, mathematics or other courses, as listed in Medical School Admission Requirements, or Admission Requirements of U.S. and Canadian Dental Schools.

The Association of American Medical Colleges recommends that undergraduate students planning to apply to medical school acquire a strong background in the natural sciences, so students should consider courses in biology, chemistry, physics and mathematics beyond the minimum requirements. Students should develop oral and written communication skills, and should complete courses in the humanities and social sciences. Honors courses, independent study or undergraduate research are also encouraged.
AEROSPACE STUDIES (Air Force Reserve Officer Training Corps)

LT. COL. GRECO, Chairperson

The Air Force Reserve Officer Training Corps (AFROTC) program at Wilkes University permits students attending the University of Scranton to earn commissions as officers in the United States Air Force while pursuing a university degree. Students may enroll in either the Four-Year or Two-Year programs. All Aerospace Studies courses are held on the Wilkes University Campus in Wilkes-Barre, Pennsylvania.

The Four-Year program permits students to enter the AFROTC program in their freshman or sophomore year. (Students with three years remaining until graduation may enroll concurrently in the freshman and sophomore Aerospace Studies courses and can complete the four-year program in three years.)

The Two-Year program is available for students who have at least two years remaining until graduation. Students interested in enrolling in the Two-year program must apply as early as possible in their sophomore year.

**General Military Course (Four-Year Program Only)** — The first two years of the four-year program constitute the General Military Course (GMC). GMC courses are open to any University student. Students enrolling in these courses do not incur any military service obligation. (Exception: Air Force scholarship recipients incur a commitment at the beginning of their sophomore year.) The GMC curriculum consists of four one-credit Aerospace Studies courses, plus a non-credit leadership laboratory each semester, which introduces students to U.S. Air Force history and environment, customs, courtesies, drill and ceremonies and leadership skills.

**Professional Officer Course (Two and Four-Year Programs)** — The final two years of the four-year program comprise the Professional Officer Course (POC). It consists of four three-credit Aerospace Studies courses, plus a non-credit leadership laboratory each semester. POC cadets earn a $100-per-month, tax-free subsistence allowance during the academic year and incur a military obligation. To be accepted into the POC, students must pass a physical examination and an officer qualification test, as well as meeting certain academic standards. Four-year cadets must also complete a four-week field training program; two-year applicants must complete a six-week field training program, both of which are administered the summer before POC entry. In addition, all POC cadets must complete a course in mathematical reasoning prior to being commissioned.

**Field Training** — Field training is conducted at selected Air Force bases. It provides students an opportunity to observe Air Force units and people at work and at home; to participate in marksmanship, survival, athletics, and leadership training activities; to experience aircraft orientation flights; and to work with contemporaries from other colleges and universities. Transportation from the legal residence of the cadet to the field training base (and return), food, lodging, and medical and dental care during the encampment are provided by the Air Force. Cadets receive pay of approximately $400 for the four-week field training program or $600 for the six-week field training program.

**Advanced Training Program (ATP) (Optional)** — This program allows POC members to visit a USAF base for two weeks during the summer between the cadet’s junior and senior years and to work with an active duty officer working in the student’s chosen career area. Transportation from the legal residence of the cadet to the ATP base (and return), food, lodging, and medical and dental care during the two weeks are provided by the Air Force. The participating cadet also is provided a weekly salary during the program.

**Uniforms** — All uniforms, equipment, and textbooks required for AFROTC are supplied by Wilkes University and the U.S. Air Force. All cadets are required to pay a nominal initial deposit which will be refunded when the cadet returns all uniform items in satisfactory condition at the completion of (or withdrawal from) the AFROTC program.

**Scholarships** — The U.S. Air Force also offers many 2-to-5-year, full and partial scholarships for which qualified students may compete, if they enroll in AFROTC. All scholarship awards are based on individual merit, regardless of financial need, with most scholarship recipients determined by central selection boards. Scholarship selection boards for students already in college are held in January and July each year. Since scholarship applicants must meet certain academic, physical fitness and medical requirements to be considered by the scholarship boards, contact the Aerospace Studies department early, preferably 2-3 months before the boards con-
vene, to apply. High school students wishing to compete for AFROTC college scholarships must complete and submit an application by 1 December of their senior year.

**Commissioning and Active Duty**—Students who satisfactorily complete the POC curriculum requirements are commissioned as Second Lieutenants in the U.S. Air Force, and will serve on active duty in a career specialty they have chosen, consistent with USAF needs. Qualified students may compete for duty as pilots, navigators, missile operations, space operations, nurses, engineers, meteorologists, computer analysts, lawyers, security police, or any of a number of other career fields. Starting salary for a newly commissioned Second Lieutenant will be approximately $24,000 a year, with 30 days of paid vacation each year. (With normal promotions and incremental pay raises, this salary will increase to approximately $40,000 per year after four years of active duty.)

For additional information, or if you have specific questions about the Air Force Reserve Training Program, contact the Aerospace Studies Department at Wilkes University, at 1-800-WILKES-U, extension 4860/4861.

**AS 111/112/211/212**  
**AS 303/304/313/314**  
**Leadership Laboratory**  
No credit  
Involves a progression of experience designed to develop each student’s leadership potential in a supervised training laboratory. Examines U.S. Air Force customs and courtesies, drill and ceremonies, career opportunities, life and work of an Air Force company grade officer.

**AS 101**  
**Fall**  
**Air Force Today I**  
1 credit  
Introduction to the background, missions, and functions of U.S. military forces, with emphasis on U.S. Air Force organization, command structure and the mission and organization of various major commands.

**AS 102**  
**Spring**  
**Air Force Today II**  
1 credit  
Introduction to USAF professions, geopolitics, U.S. defense policy/strategy, U.S. general purpose military forces, insurgency/counter-insurgency, aerospace support forces and organization of other military services.

**AS 201**  
**Fall**  
**The Development of Air Power I**  
1 credit  
A study of air power development, in historical perspective, through the end of World War II, including the evolution of missions, concepts, doctrine and force employment, with emphasis on changes in conflict and factors which have prompted technological developments.

**AS 202**  
**Spring**  
**The Development of Air Power II**  
1 credit  
(Prerequisite: AS 201 or permission of instructor.) A study of air power development from the end of World War II to the present, including changing air power missions and the employment of air power in support of national objectives.

**AS 301**  
**Spring**  
**Air Force Leadership and Management I**  
3 credit  
(Prerequisite: AFROTC-approved membership in the POC or permission of instructor.) General Theory and practice of management with special reference to the U.S. Air Force. Covers evolution of management thought, including classical, behavioral, and management science schools; policy formulation, principles and practices in planning, organizing, staffing, directing, and controlling business and Air Force activities; resource control techniques; social and ethical issues within the management process.

**AS 302**  
**Spring**  
**Air Force Leadership and Management II**  
3 credit  
(Prerequisite: AS 301 or permission of instructor.) Air Force leadership at the company grade officer level, including its theoretical, professional, and legal aspects; practical experience in influencing people individually and in groups, to accomplish organizational missions effectively.

**AS 311**  
**Fall**  
**National Security Forces in Contemporary American Society I**  
3 credit  
(Prerequisite: AFROTC-approved membership in the POC or permission of instructor.) The role and functions of the professional military officer in a democratic society, and civil-military interaction; basic framework of defense policy and formulation of defense strategy; the impact of East Asia, Latin America, Africa, the Middle East, and Commonwealth of Independent States on U.S. national security policy.

**AS 312**  
**Spring**  
**National Security Forces in Contemporary American Society I**  
3 credit  
(Prerequisite: AS 311 or permission of instructor.) The problems of developing defense strategy in a rapidly changing technological environment; effective deterrent posture and management of conflict; dynamics and agencies of defense policy making.
The College of Arts and Sciences

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 two minors: 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.
b) art history courses (all courses designated ARTH) satisfy requirements in GE AREA IV - Humanities.
c) 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 art history requires 18 credits, including ARTH 110, 111, 112. Three additional courses in art history are required.
A minor in music literature requires 18 credits, including MUS. 111, 112, 235, 236, and two additional music courses numbered 110 or above.
A minor in studio art requires 18 credits, as arranged with and approved by the chairperson.

ART

ART 112  COLOR AND DESIGN  Staff  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  THREE-DIMENSIONAL DESIGN  Prof. Colley  3 credits
A foundation course investigating basic materials and approaches in the creation of three-dimensional form. Hands-on involvement with diverse media, techniques, and tools of the sculptor's craft is emphasized.

ART 116  BASIC DRAWING  Staff  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  PAINTING I  Prof. Alexander  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  WATERCOLOR I  Prof. Sampson  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  PASTEL I  Prof. Sampson  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  SCULPTURE I  Prof. Colley  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  DRAWING II  Staff  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  PAINTING II  Prof. Alexander  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  INTERMEDIATE WATERCOLOR  Prof. Sampson  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  PAINTING III  Prof. Alexander  3 credits
The course focuses on individual approaches to painting. Content, style, and technique will be determined by each student.

ART 382-383  GUIDED INDEPENDENT STUDY  Staff  3 credits each
Courses meet specific needs and interests of the student. Content and methodology vary.

ART 384  SPECIAL TOPICS  Staff  3 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 history, 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 I 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. Dunn, Staff  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. 115  Dr. Dunn  Art of the Ancient World (Formerly Arth 201) 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. 116  Dr. Dunn  Art of Greece and Rome (Formerly Arth 202) 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. 117  Dr. Dunn  Early Christian and Byzantine Art (Formerly Arth 203) 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. 118  Dr. Dunn  Medieval Art: Romanesque and Gothic (Formerly Arth 204) 3 credits
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. 205  Dr. Dunn  The Icon in Russian and East European Art 3 credits
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 medieval through modern times.

ARTH. 210  Staff  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. Miller-Lanning  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. 214  Dr. Dunn  Renaissance Art and Architecture: 1250-1500 (Formerly Arth 310) 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. 215  Dr. Dunn  The Renaissance in Northern Europe (Formerly Arth 311) 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 Dürer.

ARTH. 216  Dr. Dunn  Michelangelo and His World (Formerly Arth 410) 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. 217  Dr. Dunn  Leonardo (Da Vinci) (Formerly Arth 411) 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.

ARTH. 218  Dr. Dunn  Art of Baroque and Rococo Europe (Formerly Arth 303) 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.
ARTH. 220  Staff  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. 221  Dr. Dunn  Nineteenth-Century Art  3 credits
(Formerly Arth 304) 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. In addition to developing skills of visual analysis, the course will focus on the interaction between artist and society.

ARTH. 222  Staff  Impressionism and Post-Impressionism  3 credits
(Formerly Arth 312) 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 Cézanne, Seurat, Van Gogh and Gauguin will be examined as reactions to the aims of Impressionism.

ARTH. 225  Staff  Art of the Twentieth Century  3 credits
(Formerly Arth 305) 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. 227  Staff  Matisse and Picasso  3 credits
(Formerly Arth 315) 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. 295-296  Dr. Dunn  (Travel Seminar)
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. 380  Drs. Dunn, Miller-Lanning  Museum Methods  1-3 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  Guided Independent Study  3 credits
Courses meet specific needs, and content and methodology vary.

ARTH. 384, 484  Dr. Dunn  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.

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 clavicord 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 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. 222  Staff  
Bach  3 credits  
(Formerly Mus 323) 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. 223  Staff  
Mozart  3 credits  
(Formerly Mus 324) 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 eighteenth-century culture and musical conventions on Mozart’s work is considered.

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. 225  Sr. Roccasalvo, C.S.J.  
Beethoven  3 credits  
(Formerly Mus 325) 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. 226  Sr. Roccasalvo, C.S.J.  
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, exressionism, neo-classicism, serialism, and minimalism, 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, Liszt, Smetana, Dvorak, Bartok, the “Mighty Five,” Tchaikovsky, Rachmaninoff, Stravinsky.

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  
(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. 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. 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 repertoire.

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

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

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<th>Dept. and No.</th>
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TOTAL: 143 credits

* General Education recommendations:
  - 6 credits English literature in Area IV, Comm. 100 and English 107 for Area III.

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

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.
* 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.

**BIOL. 100**
* Modern Concepts of Biology  
Staff  
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  
GE Area I) Intersession only.  
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. Carey  
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**
* Structure and Function of the Human Body  
Staff  
8 credits  
A general study of the anatomy and physiology of the human organism emphasizing the body’s various coordinated functions from the cellular level to integrated organ systems. 3 hours lecture, 2 hours lab each semester.

**BIOL. 112**
Perspectives in Anatomy and Physiology  
Dr. Anderson  
2 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. 114 & 142**
* General Biology  
Staff  
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)**
African Photo Safari  
Dr. Conway  
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**
Anatomy & Physiology  
Dr. Kwieciinski  
3 credits  
An introduction to the biochemical, cellular, tissue and organistical organization of selected body functions; structure in relation to function is emphasized.

**BIOL. 202**
The ABC’S Of Genetics  
Dr. McDermott  
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**
Horticulture  
Dr. Hardisky  
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**
Everyday DNA  
Dr. DelVecchio  
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**
* Introductory Medical Microbiology  
Dr. McDermott  
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**
* Comparative Vertebrate Anatomy (O)  
Fr. MacEntee  
5 credits  
(Prerequisite: Biol. 141-142) Structure and physiology of vertebrate organ-systems, emphasizing and comparing vertebrate structures in relation to their functions. Amphioxus, shark, necturus, and the fetal pig are subjected to detailed laboratory study. 3 hours lecture, 4 hours lab. Fall only.
Biol. 243  Fr. MacEntee  
* The Human Body (O)  5 credits  
(Prerequisites: Biol. 141-142) Structure and function of the principal organ systems in mammals emphasizing the human condition. The cat is subjected to detailed study in the laboratory. 3 hours lecture, 4 hours lab. Spring only.

Biol. 245  Staff  
* General Physiology (O)  4 1/2 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  Fr. Beining, Dr. Sulzinski  
* Microbiology (C, O, M)  4 1/2 credits  
(Prerequisite: Biol. 141-142, Chem. 112-113) Structure, function, growth, reproduction, heredity and relationships of bacteria, yeasts, molds, viruses; a brief survey of pathogens, life cycles of parasitic microorganisms; introduction to disease and immunology. 3 hours lecture, 3 hours lab; not open to Nursing majors.

Biol. 260  Dr. McDermott  
* Genetics (G)  4 1/2 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 Vascular Plants (O, P)  4 1/2 credits  
(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)  4 1/2 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; osmoregulation, 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; includes 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 lecture/demonstration. Alternate years.

Biol. 348  Dr. Adams  
Neurophysiology (C, O)  4 1/2 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. 3 hours lecture; 3 hours lab. Spring only.

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)  3 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  
* Histology (C)  4 credits  
(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. Fall only.

BIOL. 361  Dr. Dwyer  
* Molecular Biology I (M)  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  Dr. Dwyer  
Molecular Biology II (M, G)  3 credits  
(Prerequisite: Biol. 361) The structure and function of eukaryotic cells and organisms from a molecular viewpoint. Study of eukaryotic 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 lab. Spring 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) Classification 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 years.

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 evidence for them in plants and animals. Population genetics and the adaptiveness of various organic traits will be discussed. Fall only.

BIOL. 379  Dr. Townsend  
Biostatistics  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 student/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).

<table>
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<th>Dept. and No.</th>
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</table>

* Department recommends Comm. 100 and Engl. 107
N.B. For A.C.S. certification, Chemistry majors must complete Analysis III, Math 341, and two upper division chemistry electives.

TOTAL: 143⅔ credits
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).

<table>
<thead>
<tr>
<th>Dept. and No.</th>
<th>Descriptive Title of Course</th>
<th>Credits</th>
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<tr>
<td>MAJOR</td>
<td>Chem. 112-113</td>
<td>General Analytical Chemistry I-II 4½ 4½</td>
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<td>PHYS EDUC</td>
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<td>Physical Education 1 1</td>
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MAJOR          | Chem. 232-233                                | Organic Chemistry I-II 4½ 4½ |
| 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     | Humanities                                   | Elective 3 |
| PHYS EDUC      | Ph.Ed.                                        | Physical Education 1 1 |

MAJOR          | Chem. 330-370                                | Organic Chem. III 3½ |
| MAJOR          | Chem. 360-361                                | Instrumental Analysis 5 |
| MAJOR/COGNATE  | Electives-200 level or above                 | Biophysical Chemistry I-II 4½ 4½ |
| MAJOR          | Chem. 390-391                                | Electives 3 3 |
| GE AREA II     | Social/Behavior                              | Chemical Literature-Seminar 1 1 |
| GE AREA IV     | Humanities                                   | Elective 3 |
| GE AREA V      | Phil. 210                                    | Ethics 3 |
| GE AREA V      | T/RS 122                                     | Theology II 3 |

SENIOR         |                                                 | Total: 143 credits |
| MAJOR          | Chem. 450-451                                | Biochemistry I-II 4½ 3 |
| MAJOR          | Chem. 493-494                                | Undergraduate Research 1½ 1½ |
| GE AREA IV     | Humanities                                   | Electives 6 6 |
| GE AREA V      | Phil-T/RS                                    | Electives 3 3 |
| GE AREA II     | Social/Behavior                              | Elective 3 |

*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.
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.

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<th>Dept. and No.</th>
<th>Descriptive Title of Course</th>
<th>Credits</th>
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* Department recommends Comm. 100 and Engl. 107
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.

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<td>MAJOR Chem. 362-363</td>
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<td>MAJOR CMPS 362</td>
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<td>Chem./CMPS Elec.**</td>
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* Department recommends Comm. 100 and Engl. 107
** Electives must be at 300 or 400 level.

TOTAL: 148 credits
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.

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<thead>
<tr>
<th>Dept. and No.</th>
<th>Descriptive Title of Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MAJOR</td>
<td>Chem. 112-113</td>
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<td>COGNATE</td>
<td>Biol. 141-142</td>
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<td>Principles of Immunology</td>
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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 student’s 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  Forensic Science  3 credits  Dr. Vinson
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  Elements of Chemistry  3 credits  Staff
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  Science and Society  3 credits  Staff
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  Introductory Chemistry  6 credits  Staff
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  Introductory Chemistry Laboratory  2 credits  Staff
(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  General and Analytical Chemistry  6 credits  Staff
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  General and Analytical Chemistry Laboratory  3 credits  Staff
(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  General Analytical Chemistry  2 credits  Staff
Chemistry Laboratory
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  Organic Chemistry  6 credits  Staff
(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  Organic Chemistry Laboratory  3 credits  Staff
(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  Environmental Chemistry  3 credits  Staff
(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  Industrial Chemistry  6 credits  Dr. Dickneider
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  Environmental Geochemistry  2 credits  Staff
(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  Organic Chemistry III  1.5 - 3 credits  Staff
(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  Environmental Toxicology  3 credits  Staff
(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  Environmental Chemistry  3 credits  Staff
(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  Environmental Geochemistry  3 credits  Staff
(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 man’s 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  Staff
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 titrmetry. 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) 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  Biochemistry II  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. 460  Drs. Baumann, Hart  Physical Chemistry III  3 credits  (Prerequisite: Chem. 363)  Quantum mechanics and quantum chemistry, including classical problems, perturbation theory, variational theory and specific applications of molecular orbital theory to organic molecules and spectroscopic applications.

CHEM. 451  Drs. Dreisbach, Wasilewski  Biochemistry II  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. 460  Drs. Baumann, Hart  Physical Chemistry III  3 credits  (Prerequisite: Chem. 363)  Quantum mechanics and quantum chemistry, including classical problems, perturbation theory, variational theory and specific applications of molecular orbital theory to organic molecules and spectroscopic applications.

CHEM. 460L  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. GERMOERTH, 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 satisfactorily 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:

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<td>Comm 110</td>
<td>Interpersonal Communication</td>
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<tr>
<td>Comm 120</td>
<td>Mass Communication</td>
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<tr>
<td>Comm 210</td>
<td>Logical and Rhetorical Analysis</td>
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<td>Comm 220</td>
<td>Responsibility in Communication</td>
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<td>Comm 310</td>
<td>Mass Communication Law</td>
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<tr>
<td>Comm 410</td>
<td>Communication Theory and Research</td>
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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
- Comm 311 Political Communication
- Comm 313 Nonverbal Communication
- Comm 326 Political Advertising
- Comm 411 Persuasion and Propaganda

**Journalism**

- Comm 223 Radio Journalism
- Comm 224 Newswriting
- Comm 323 Television Journalism
- Comm 324 Advanced Newswriting
- Comm 328 News Editing
- Comm 329 Graphics

**Radio/TV Production**

- Comm 221 Radio Production
- Comm 222 Television Production
- Comm 321 Advanced Radio Production
- Comm 322 Advanced Television Production
- Comm 422 Educational Television
- Comm 480 Television Practicum
## COMMUNICATION

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**SENIOR**

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

### 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** Comm 110 Interpersonal Communication  
   **or** Comm 120 Mass Communication

2. **either** Comm 210 Logical and Rhetorical Analysis  
   **or** Comm 220 Responsibility in Communication

3. **either** Comm 310 Mass Communication Law  
   **or** Comm 410 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 COMM 100
(with a grade of C or better) fulfills the speech
skills requirement of the University. (GE Area III)

COMM. 110  Staff  Interpersonal Communication  3 credits
An investigation and analysis of the process and
nature of human communication and its intraper-
sonal 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 con-
trol are some of the topics covered.

COMM. 210  Staff  Logical and Rhetorical Analysis  3 credits
A study of the principles of logic and persuasion,
analysis of fallacies, and critical examination of
the principles of structure in written and oral com-
munication. 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 argu-
mentation, 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 prin-
ciples of small group communication. Topics
include problem-solving, decision-making, con-
lict resolution, leadership theories, interaction
strategies, and participant roles. (GE Area III)

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 perspec-
tives.

COMM. 221  Staff  Radio Production  3 credits
An examination of the dynamic industry roles of
the radio producer/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, pro-
duction 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 espe-
cially 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. Students should, there-
fore, be Macintosh computer literate.

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 relation-
ships with their various publics will be examined.

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
evolved over the years. Selected screenings will
reveal the transitions and refinements which charac-
terize the medium of film. (GE Area 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. (GE Area 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. 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. (GE Area 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. (GE Area 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  Staff
Advertising Copywriting  3 credits
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

COMM. 329  Staff
Graphics  3 credits
(Prerequisite: Comm. 224) Visual aspects of print media. Typography, printing presses, handling photos and other design, introduction to desktop publishing. Familiarity with journalistic 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 or Comm 325) Students function as a full-service advertising agency which provides clients with a complete array of services ranging from campaign creation to implementation and evaluation.

COMM. 410 Staff
Communication Theory 3 credits
(Prerequisites: Comm. 110, 120, 210, and 220; Seniors only; offered only in Fall semester) 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
Comparative analysis of national and international media systems throughout the world. Emphasis on their origin, development, and operation.

COMM. 427 Staff
International Film 3 credits
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
(Prerequisites: Comm. 222 and Comm. 322) Communication seniors undertake significant areas 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, undertakes significant 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**

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**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.

* * 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.

**TOTAL:** 139 credits
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. Students are encouraged to participate in an internship.

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<td>CMPS 340-341</td>
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<td>MAJOR</td>
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<td>Computer Projects</td>
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<td>TOTAL:</td>
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Elective courses in the Computer Information Systems major must be CMPS courses numbered 200 or higher.

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

Public Administration Cognates-Select three from the following: Pol Sci 210, 227, 230, 322, 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 ANSI standard COBOL. Traditional business applications will be emphasized. Topics include internal data representation, data editing, calculations, one-level tables, search, sort, and reporting. (GE Area 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: CMPS 144) 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) Introduction 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. Computability, 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 376 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 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.

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<th>Dept. and No.</th>
<th>Descriptive Title of Course</th>
<th>Credits</th>
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<td>CJ 110-S/CJ 213</td>
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<td>Soc. 110</td>
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<td>GE AREA V</td>
<td>Phil. 120</td>
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<td>S/CJ 210-S/CJ 212</td>
<td>Law and Society-Criminological Research</td>
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<td>MAJOR</td>
<td>S/CJ 218-220</td>
<td>Amer. Court System-Penology</td>
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<td>GE AREA V</td>
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<td>GE FREE</td>
<td>Electives</td>
<td>Electives</td>
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TOTAL: 127 credits

Department Recommendations:
* In GE Area I, the department recommends Nursing 100, Family Health, Physics 101, 102, 103, 106, 108; 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.; H/PS 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 S/CJ 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  Profs. Friedrichs, Baker, Dr. Wright
Introduction to Criminal Justice  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  Prof. Friedrichs, Atty. Cimini
Law and Society  3 credits
The relationship between law and society, or the
interaction of legal and social variables. Examines
jurisprudential and social theories of law; develop-
ment 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 jus-
tice 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; evalua-
tion 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, com-
parative 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, plan-
ning and reform.

S/CJ 220  Atty. Cimini, Drs. Wright, Rielly
Penology: The American Correctional System  3 credits
Analysis and evaluation of contemporary correction-
systems; theories of punishment; discussion of
recent research concerning the correctional institu-
tion 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 cor-
rectional process; contemporary usage of pre-
sentence investigation, selection, supervision, release of probationers and paroles.

S/CJ 224  Prof. Friedrichs
Sociology of Deviance  3 credits
Critical examination of theories and empirical
studies of social deviance, focusing upon the for-
mulation and application of deviant labels, organi-
zations relating to deviance, and deviant behav-
ioral patterns. Special attention given to noncri-
minal 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 ille-
galities 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 the-
ories and concepts. The various methods of prose-
cution, investigation, and control will be dis-
cussed.

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 involv-
ing citizens, community and agency interrela-
tionships.

S/CJ 232  Prof. Baker
Public Safety Administration  3 credits
An overview of the public safety field—its philos-
ophy, disciplines and research. The course will
focus on an examination of the police and govern-
mental responses to disaster and accidents. A pri-
mary emphasis will be given to the various analyti-
cal 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. Rela-
tionship 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 investiga-
tions. 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 admi-
ission 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. 152), 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. 153.

### ECONOMICS

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<td>Princ. of Micro.-Macro. Eco.</td>
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<td>Comm 100, Engl 107*</td>
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<td>MAJOR</td>
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<td>Computg. for Bus. &amp; Soc. Sc.</td>
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**TOTAL: 127/129 credits**

* Recommended by the department.

** See the math options on page 146. 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. SPALLETTA, Director**

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.

<table>
<thead>
<tr>
<th>Dept. and No.</th>
<th>Descriptive Title of Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FRESHMAN</strong></td>
<td></td>
<td>FALL</td>
</tr>
<tr>
<td>COGNATE</td>
<td>Phys. 140-141 Elements of Physics I-II</td>
<td>4</td>
</tr>
<tr>
<td>COGNATE</td>
<td>Math 114-221 Analysis I-II</td>
<td>4</td>
</tr>
<tr>
<td>GE AREA III</td>
<td>CMPS 134 Computer Science I</td>
<td>3</td>
</tr>
<tr>
<td>GE AREA III</td>
<td>Communications Electives</td>
<td>3</td>
</tr>
<tr>
<td>GE AREA IV</td>
<td>Humanities Elective</td>
<td>3</td>
</tr>
<tr>
<td>GE AREA V</td>
<td>Phil. 120 Introduction to Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHYS EDUC</td>
<td>Ph. Ed. Physical Education</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td><strong>SOPHOMORE</strong></td>
<td>18</td>
</tr>
<tr>
<td>MAJOR</td>
<td>EE 240 Intro. Digital Circuits</td>
<td>3</td>
</tr>
<tr>
<td>MAJOR</td>
<td>EE 241 Circuit Analysis</td>
<td>4</td>
</tr>
<tr>
<td>MAJOR</td>
<td>EE 243L Digital System Design Lab</td>
<td>2</td>
</tr>
<tr>
<td>MAJOR</td>
<td>Engr. 250-252 Statics-Solid State Materials</td>
<td>3</td>
</tr>
<tr>
<td>MAJOR</td>
<td>Engr. 253 Intro. to C.A.D.</td>
<td>1</td>
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<tr>
<td>MAJOR</td>
<td>Engr. 254 3-D C.A.D.</td>
<td>1</td>
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<tr>
<td>COGNATE</td>
<td>Phys. 270 Modern Physics</td>
<td>4</td>
</tr>
<tr>
<td>COGNATE</td>
<td>Math 222-341 Analysis III-Differential Equations</td>
<td>4</td>
</tr>
<tr>
<td>COGNATE</td>
<td>Chem. 112 General and Analytical Chem</td>
<td>3</td>
</tr>
<tr>
<td>GE AREA V</td>
<td>TRS 122 Theology II</td>
<td>18</td>
</tr>
<tr>
<td></td>
<td><strong>JUNIOR</strong></td>
<td>18</td>
</tr>
<tr>
<td>MAJOR</td>
<td>EE 447-448 Electromagnetics I-II</td>
<td>3</td>
</tr>
<tr>
<td>MAJOR</td>
<td>EE 343-344 Electronic Circuits I-II</td>
<td>5</td>
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<tr>
<td>MAJOR</td>
<td>EE 346 Digital Signal Processing</td>
<td>3</td>
</tr>
<tr>
<td>COGNATE</td>
<td>Engr. 350 Applied and Engineering Math.</td>
<td>3</td>
</tr>
<tr>
<td>COGNATE</td>
<td>Elective Technical Elective**</td>
<td>3</td>
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<tr>
<td>GE AREA II</td>
<td>Soc./Behavioral Electives***</td>
<td>6</td>
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<tr>
<td>GE AREA IV</td>
<td>Humanities Elective</td>
<td>3</td>
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<td><strong>SENIOR</strong></td>
<td>17</td>
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<tr>
<td>MAJOR</td>
<td>EE 449 Computer Interfacing</td>
<td>5</td>
</tr>
<tr>
<td>MAJOR</td>
<td>EE 450 Control Systems</td>
<td>3</td>
</tr>
<tr>
<td>MAJOR</td>
<td>EE 451 Communications Systems</td>
<td>3</td>
</tr>
<tr>
<td>MAJOR</td>
<td>EE 452-453 VLSI I-II</td>
<td>2</td>
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<tr>
<td>MAJOR</td>
<td>EE 454 Senior Design Project</td>
<td>3</td>
</tr>
<tr>
<td>GE AREA IV</td>
<td>Humanities Electives</td>
<td>3</td>
</tr>
<tr>
<td>GE AREA V</td>
<td>Phil. 210-T/RS Ethics-Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>TOTAL: 136 credits</strong></td>
<td>16</td>
</tr>
</tbody>
</table>

* 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 Master’s in Business Administration.

<table>
<thead>
<tr>
<th>Dept. and No.</th>
<th>Descriptive Title of Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>FALL</td>
</tr>
<tr>
<td>COGNATE</td>
<td>Phys. 140-141</td>
<td>Elements of Physics I-II</td>
</tr>
<tr>
<td>COGNATE</td>
<td>Math 103-114 or Math 114-221</td>
<td>Pre-Calculus Math.-Analysis I</td>
</tr>
<tr>
<td>GE AREA II</td>
<td>Eco. 153-154</td>
<td>Principles of Micro.-Macro. Eco.</td>
</tr>
<tr>
<td>GE AREA II</td>
<td>Communications</td>
<td>Electives</td>
</tr>
<tr>
<td>GE AREA III</td>
<td>CMPS 134</td>
<td>Computer Science I</td>
</tr>
<tr>
<td>GE AREA V</td>
<td>Phil. 120</td>
<td>Introduction to Philosophy</td>
</tr>
<tr>
<td>PHYS EDUC</td>
<td>Ph. Ed.</td>
<td>Physical Education</td>
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<td>18</td>
</tr>
</tbody>
</table>

| SOPHOMORE    |                             |         |
| MAJOR        | EE 240                      | Intro. to Digital Circuits | 3 |
| MAJOR        | EE 241                      | Circuit Analysis | 4 |
| MAJOR        | Engr. 252                   | Solid State Material Science | 3 |
| MAJOR        | Engr. 253                   | Intro. to C.A.D. | 1 |
| MAJOR        | Engr. 254                   | 3-D C.A.D. | 1 |
| MAJOR        | Acc. 253-254                | Financial, Managerial Acct. | 3 | 3 |
| COGNATE      | Math 221-222 or Math 222-341| Analysis II-III | 4 | 4 |
|             |                             | Analysis II-Differential Equations | |
| COGNATE      | Phys. 270                   | Modern Physics | 4 |
| GE AREA IV   | Humanities                  | Elective | 3 |
| GE AREA V    | T/RS 121                    | Theology I | 3 |
| PHYS EDUC    | Ph. Ed.                     | Physical Education | 1 |
|              |                             | 19     | 19     |

| JUNIOR       |                             |         |
| MAJOR        | EE 343-344                  | Electronic Circuits I-II | 5 | 3 |
| MAJOR        | QMS 251-252                 | Statistics for Business I-II | 3 | 3 |
| GE AREA II   | Humanities                  | Elective | 3 |
| GE AREA IV   | Electives                   | 3 |
| GE AREA V    | Phil. 210                   | Ethics | 3 |
| GE AREA V    | T/RS 122                    | Theology II | 3 |
| GE FREE      | Elective                    | Elective | 3 |
|              |                             | 17     | 15     |

| SENIOR       |                             |         |
| MAJOR        | Mgt. 351-Mkt. 351           | Principles of Management I | 3 |
| MAJOR        | Fin. 351-POM 352            | Intro. to Marketing | 3 |
| MAJOR        | QMS 351                     | Intro. to Management Science | 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 Scranton’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 pre-engineering 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.

ENGINEERING TRANSFER PROGRAM

<table>
<thead>
<tr>
<th>Dept. and No.</th>
<th>Description &amp; Title of Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRESHMAN</td>
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<tr>
<td>COGNATE</td>
<td>Phys. 140-141 Elements of Physics I-II</td>
<td>4 4</td>
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<td>COGNATE</td>
<td>CMPS 134 Computer Science I</td>
<td>3</td>
</tr>
<tr>
<td>COGNATE</td>
<td>Math 114-221 Analysis I-II</td>
<td>4 4</td>
</tr>
<tr>
<td>GE AREA III</td>
<td>Communications Elective*</td>
<td>3</td>
</tr>
<tr>
<td>GE AREA IV</td>
<td>Humanities Elective</td>
<td>3</td>
</tr>
<tr>
<td>GE AREA V</td>
<td>Phil. 120 Introduction to Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>GE AREA V</td>
<td>T/RS 121 Introduction to Theology</td>
<td>3</td>
</tr>
<tr>
<td>GE AREA II or IV</td>
<td>Social Science or Humanities Elective</td>
<td>3</td>
</tr>
<tr>
<td>PHYS EDUC</td>
<td>Ph. Ed. Physical Education</td>
<td>1</td>
</tr>
<tr>
<td></td>
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<td>18 17</td>
</tr>
<tr>
<td>SOPHOMORE</td>
<td></td>
<td></td>
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<tr>
<td>MAJOR</td>
<td>EE 240 Intro. to Digital Circuits</td>
<td>3</td>
</tr>
<tr>
<td>MAJOR</td>
<td>EE 241 Circuit Analysis</td>
<td>4</td>
</tr>
<tr>
<td>MAJOR</td>
<td>Engr. 250-252 Statics-Solid Sum Materials</td>
<td>3 3</td>
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<tr>
<td>MAJOR</td>
<td>Engr. 253 Intro. C.A.D.</td>
<td>3</td>
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<tr>
<td>MAJOR</td>
<td>Engr. 254 3-D C.A.D.</td>
<td>1</td>
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<tr>
<td>COGNATE</td>
<td>Phys. 270 Elements of Modern Physics</td>
<td>4</td>
</tr>
<tr>
<td>COGNATE</td>
<td>Math 222-341 Analysis II-</td>
<td>4 4</td>
</tr>
<tr>
<td>COGNATE</td>
<td>Chem. 112-113 General and Analytical Chem.</td>
<td>3 3</td>
</tr>
<tr>
<td>GE FREE</td>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
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<td>18 18</td>
</tr>
</tbody>
</table>

TOTAL: 71 credits

* The Department recommends Engl 107, Composition, or if exempt, Wrtg 211., Technical and Business Writing.
ENGR. 250  Engineering Mechanics-Statics  3 credits  (Prerequisite: 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  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  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  An Introduction to Computer Aided Design  1 credit  (Prerequisites: Math 114, Cmp. 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  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  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 Phys. 350.) 3 hours lecture.

ENGR. 352  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 Physics 352.) 3 hours lecture.

EE 240  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  Circuit Analysis  4 credits  (Prerequisite: Physics 141; Pre- or corequisite: Math 222) Intermediate course treating Kirchoff’s 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  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 244  Electronic Circuits I  3 credits  (Prerequisites: EE 241, Engr. 252) Analysis and design of analog electronic circuits using diodes, BJTs, and FETs. Emphasis placed on amplifier circuits and their frequency dependence. 3 hours lecture.

EE 244L  Electronic Circuits I Lab  2 credits  (Corequisite: EE 243) Experiments with diodes, BJTs, and MOSFETs. Some of the experiments are short projects to introduce the student to the application of design principles. 3 hours laboratory.

EE 345L  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.

ENGR. 344  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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Instructor</th>
</tr>
</thead>
<tbody>
<tr>
<td>EE 346</td>
<td>Digital Signal Processing</td>
<td>3</td>
<td>(Prerequisite: EE 240, EE 241) 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.</td>
<td>Dr. Berger</td>
</tr>
<tr>
<td>EE 447</td>
<td>Electromagnetics I</td>
<td>3</td>
<td>(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 444). 3 hours lecture.</td>
<td>Dr. Varonides</td>
</tr>
<tr>
<td>EE 448</td>
<td>Electromagnetics II</td>
<td>3</td>
<td>(Prerequisite: EE 447) Magnetic materials, electromagnetic induction, displacement currents, Maxwell’s equations; radiation and waves; applications include transmission lines, waveguides, and antennas. (Also listed as PHYS 448). 3 hours lecture.</td>
<td>Dr. Zakzewski</td>
</tr>
<tr>
<td>EE 448L</td>
<td>Electromagnetics Design Laboratory</td>
<td>1</td>
<td>(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.</td>
<td>Dr. Zakzewski</td>
</tr>
<tr>
<td>EE 449</td>
<td>Computer Interfacing</td>
<td>3</td>
<td>(Prerequisites: EE 344, EE 345, EE 346) Microprocessor programming and interfacing; data acquisition, manipulation and transmission; microprocessor support devices and common computer interfaces. Periodic written and oral presentations are required. 3 hours lecture and 4 hours laboratory.</td>
<td>Dr. Spalletta</td>
</tr>
<tr>
<td>EE 450</td>
<td>Control Systems</td>
<td>3</td>
<td>(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.</td>
<td>Staff</td>
</tr>
<tr>
<td>EE 451</td>
<td>Communication Systems</td>
<td>3</td>
<td>(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.</td>
<td>Staff</td>
</tr>
<tr>
<td>EE 452</td>
<td>Very Large Scale Integration Devices I</td>
<td>2</td>
<td>(Prerequisites: EE 344, EE 345) Analysis of MOS-FET 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 2 hours laboratory.</td>
<td>Dr. DiStefano</td>
</tr>
<tr>
<td>EE 453</td>
<td>Very Large Scale Integration Devices II</td>
<td>2</td>
<td>(Prerequisite: EE 452) Continuation of EE 452. Student designs are part of a class project and may revolve hundreds of CMOS circuits. 1 hour lecture and 2 hours laboratory.</td>
<td>Dr. DiStefano</td>
</tr>
<tr>
<td>EE 454</td>
<td>Robotics Design Project and Professional Practice</td>
<td>3</td>
<td>(Prerequisites: EE 449, EE 450) Students work with the faculty and/or a practicing electronics engineer to design a self-contained intelligent robot. This robot will be required to navigate a maze, carry out a task (such as retrieving a specific object) and return through the maze. Each project involves creative conception, design, development and evaluation; and must consider economic constraints as well as factors such as reliability and safety. Written and oral presentations before a group of faculty. 1 hour lecture and 3 hours laboratory.</td>
<td>Dr. Spalletta</td>
</tr>
<tr>
<td>EE 484</td>
<td>Superconductivity</td>
<td>3</td>
<td>Devices and Circuits (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).</td>
<td>Dr. Varonides</td>
</tr>
</tbody>
</table>
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 and/or 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).

ENGLISH MINOR. 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, 223, 226, 245, 335, 384, 422, or 427.

WRITING MINOR. 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 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 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 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 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 | SPRING |
---------------|-----------------------------|---------|----------|--------|
MAJOR | Engl. 140 * English Inquiry | 3 | | |
COGNATE | English Area A Medieval and Renaissance | 3 | | |
GE AREA I | Nat. Sci./Quant. Elective | 3 | | |
GE AREA II | Social/Behavioral Elective | 3 | | |
GE AREA III | Communications Elective | 3 | | |
GE AREA V | Phil. 120 Introduction to Philosophy | 3 | | |
PHYS EDUC | Ph. Ed. Physical Education | | 1 | 1 |
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SOPHOMORE | | | 16 | 16 |
MAJOR | English Area B Restoration and Eighteenth Century | 3 | | |
COGNATE | English Area C Romantic and Victorian | 3 | | |
GE AREA I | Nat. Sci/Quant. Elective | 3 | | |
GE AREA III | Communications Elective | 3 | | |
GE AREA V | Phil. 210 Ethics | 3 | | |
PHYS EDUC | Ph. Ed. Physical Education | | 1 | 1 |
---|---|---|---|---|
JUNIOR | | | 16 | 16 |
MAJOR | English Area D American Literature to 1865 | 3 | | |
COGNATE | English Area E Modern British Literature | 3 | | |
GE AREA II | Social/Behavioral Elective | 3 | | |
GE AREA V | Phil-T/RS Elective | 3 | | |
GE FREE | Elective Elective | 3 | | |
---|---|---|---|---|
SENIOR | | | 15 | 15 |
MAJOR | English Area F American Literature 1865 -Present | 3 | | |
COGNATE | Electives Electives | 3 | 6 |
GE AREA IV | Humanities Elective | 3 | | |
GE FREE | Electives Electives | 3 | | |
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TOTAL: 127 credits

* 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.

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. McNerney
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. McNerney
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 modern culture. Film screening fee. (GE Area IV)

ENGL. 126 Dr. McNerney
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. McNerney
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 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 Woolf’s 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 England’s 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 Allen’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.

ENGL 245 Dr. DeRitter
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) 3 credits
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 Staff
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. Casey  
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. Hill  
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  

ENGL. 326  Fr. Joseph Quinn  
Transcendentalists (D)  3 credits  
Course transcends typical limits of this literary period to Emerson and Thoreau'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 America's 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 Gains.

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 con-
texts. 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  Staff
Guided Independent Study  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. 422  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. 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 medieval culture. Readings and assignments will concentrate on The Canterbury Tales, but will also cover the other major poems, such as the Book of Duch 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 Eng. 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. Whitaker
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 Area B 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
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
This first course of a three-course sequence focuses on the actor’s work on himself. Basic acting exercises, short “contentless scenes,” improvisations, and theatre “games” are employed to demonstrate and develop the fundamental elements of the actor’s craft.

THTR. 112  Staff
Introduction to Technical Theatre  3 credits
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
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
(Prerequisite: THTR. 111 with a grade of B or higher.) This semester’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
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
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
(Prerequisite: THTR. 113 with a grade of B or higher.) An exploration of the basic crafts of the theatrical set designer. Concentration on developing one’s 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
(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
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  Staff
Theatre Design: Special Topics  3 credits
Topic and prerequisites will be announced prior to preregistration.

THTR. 372  Staff
Dramatic Literature: Special Topics  3 credits
Topic and prerequisites will be announced prior to preregistration.

THTR. 373  Staff
 Acting: Special Topics  3 credits
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 lower-division coursework.
THTR. 410  Staff
Advanced Acting  3 credits
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
(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  Dr. Rakauskas, Prof. Hill
Advanced Composition  3 credits
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
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
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
Fiction Writing I  3 credits
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 another’s work as well as fiction by well known authors. (GE Area III or IV)

WRTG. 214  Staff
Nonfiction Writing I  3 credits
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 I  3 credits
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
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
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. 218  Prof. Schaffer
Fiction Writing II  3 credits
(Prerequisite: WRTG. 213) Advanced workshop augments intensive student writing assignments with theory of fiction composition and diverse examples. (GE Area III or IV)

WRTG. 219  Staff
Nonfiction Writing II  3 credits
(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. 220  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. 221  Prof. Hill
Poetry Writing II  3 credits
(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. 222-223, 322-323, 422-423  Staff
Guided Independent Study  Variable credit
A tutorial program open to Junior and Senior students who have completed appropriate lower-division 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. 95.

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 Environmental Toxicology 3 credits
- CHEM. 344 Environmental Geochemistry 3 credits
- CHEM. 350 General Biochemistry I 3 credits

Group B:
- BIOL. 195 Tropical Biology 3 credits
- BIOL. 250 Microbiology 4.5 credits
- BIOL. 270 Biology of Vascular Plants 4.5 credits
- BIOL. 345 Comparative Animal Physiology 3 credits
- BIOL. 349 Plant Physiology 5 credits
- BIOL. 370 Animal Behavior 4.5 credits
- BIOL. 372 Vertebrate Biology 5 credits
- BIOL. 471 Applied Ecology 3 credits
- BIOL. 472 Systems Ecology 3 credits
- BIOL. 473 Marine Biology 5 credits

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 ESCI major 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 ESCI major or permission of instructor) 1.5 credits/semester. 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 develop/implement 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 ESCI major or permission of instructor) 1.5 credits/semester. Individual study and research of a specific environmental problem. Mentored by a biology or chemistry faculty member.
ENVIROMENTAL SCIENCE

The following is a recommended schedule of coursework.

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* 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 (MATH 221).
** Or Elements of Physics I and II (Phys. 141-141).

There is NO Minor in Environmental Science.
FOREIGN LANGUAGES 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.

* 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  Staff
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 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  6 credits
Composition and Conversation
(Prerequisite: French 211-212, or equivalent) 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 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  Staff
* 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  Staff
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  3 credits
French Studies
(Prerequisites: French 311-312, or equivalent) Selected literary works from the eleventh century to the late Renaissance.
## FOREIGN LANGUAGE

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**TOTAL: 127 credits**

* Required for modern language majors seeking certification in secondary education; recommended for Modern Language majors. Language 215 may be substituted.

** Spanish majors will take Span 320, Span 321, and 3 of the following 4 courses: Span 313, Span 314, Span 330, Span 331.


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.

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</tbody>
</table>

* Recommend Math 106-107 Quantitative Methods I-II
** Recommend Pol. Sci. 212 International Relations as one of these.
*** Recommend Pol. Sci. 240 Political Science Statistics I
**** Students whose first major language is Spanish will take Span 320, Span 321, and 3 of the following 4 courses: Span 313, Span 314, Span 330, Span 331.
† 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.

TOTAL: 130 credits
<table>
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<th>Course Code</th>
<th>Course Title</th>
<th>Instructor(s)</th>
<th>Credits</th>
<th>Prerequisites</th>
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<tbody>
<tr>
<td>FRENCH 423</td>
<td>XVIIth Century French Studies</td>
<td>Dr. Petrovic</td>
<td>3</td>
<td>(Prerequisites: French 311-312, or equivalent)</td>
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<tr>
<td></td>
<td>Literary, philosophical, and social expression</td>
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<td>from 1610 to 1715.</td>
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<tr>
<td>FRENCH 425</td>
<td>XVIIIth Century French Studies</td>
<td>Dr. Petrovic</td>
<td>3</td>
<td>(Prerequisites: French 311-312, or equivalent)</td>
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<tr>
<td></td>
<td>The Enlightenment from 1715 to 1789.</td>
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<tr>
<td>FRENCH 427</td>
<td>XIXth Century French Novel</td>
<td>Dr. Petrovic</td>
<td>3</td>
<td>(Prerequisites: French 311-312, or equivalent)</td>
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<tr>
<td></td>
<td>The development of prose narration as reflected</td>
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<td></td>
<td>in the literary movements of the age.</td>
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<tr>
<td>FRENCH 429</td>
<td>XIXth Century French Poetry</td>
<td>Dr. Petrovic</td>
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<td>(Prerequisites: French 311-312, or equivalent)</td>
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<td></td>
<td>The development of poetic forms from the romantic</td>
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<td>to the symbolist movement inclusively.</td>
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<tr>
<td>FRENCH 430</td>
<td>French Women Writers</td>
<td>Dr. Hanks</td>
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<td>(Prerequisites: French 311-312, or equivalent)</td>
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<td></td>
<td>Women’s view of themselves and the world as</td>
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<td>reflected in their literary creations.</td>
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<tr>
<td></td>
<td>Cross-listed with Women’s Studies Concentration</td>
<td></td>
<td></td>
<td>(see p. 38).</td>
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<tr>
<td>FRENCH 431</td>
<td>XXth Century French Novel</td>
<td>Dr. Petrovic</td>
<td>3</td>
<td>(Prerequisites: French 311-312, or equivalent)</td>
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<td></td>
<td>The development of prose narration from the Dreyfus</td>
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<td>case to the present.</td>
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<td>FRENCH 432</td>
<td>French Short Story</td>
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<td></td>
<td>Principal practitioners of the short story in</td>
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<td>French, including contemporary authors.</td>
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<tr>
<td>FRENCH 433</td>
<td>XXth Century French Drama</td>
<td>Dr. Petrovic</td>
<td>3</td>
<td>(Prerequisites: French 311-312, or equivalent)</td>
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<td></td>
<td>The development of dramatic forms from the Theatre</td>
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<td>Libre to the present.</td>
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<td>FRENCH 434</td>
<td>French Novel into Film</td>
<td>Dr. Hanks</td>
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<td>(Prerequisites: French 311-312, or equivalent)</td>
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<td>Examination of the transformations effected in</td>
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<td>major French novels adapted for the screen, and</td>
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<td>and exploration of alternative solutions to the</td>
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<td>problems posed.</td>
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<td>The French Theater</td>
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<td></td>
<td>An inquiry into the various forms of the French</td>
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<td>Theater through a study of significant representa-</td>
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<td>tive works from different periods.</td>
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<tr>
<td>FRENCH 436</td>
<td>French Utopias</td>
<td>Dr. Hanks</td>
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<td></td>
<td>An exploration of utopian literature in French,</td>
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<td>placed on the literary texts themselves,</td>
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<td>Emphasis determined by mentor.</td>
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</table>

**Guided Independent Study** variable credit
(Please check the catalog for specific details.)

**GERMAN**

**German 101-102**

* 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**

* Intermediate German  6 credits
(Prerequisites: German 101-102 or equivalent) Reading from modern authors of moderate difficulty. Oral and written exercises. Systematic review of German grammar.

**German 213-214**

* 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**

* 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**

* 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**

* 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, 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.

**German 321-322**

* 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
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 422 Dr. Kamla
Realism and Naturalism
Prerequisites: German 311-312, or equivalent) A study of the works of late 19th century authors, such as Storm, Fontane, and Keller.

GERMAN 423 Dr. Kamla
German Literature up to 1945
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
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
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 Staff
* 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
(Prerequisites: Japanese 101-102, or equivalent) 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 course’s 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.
SPANISH 310  Staff  3 credits
* Medical Spanish  
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  Staff  3 credits
Advanced Conversation  
(Prerequisites: Spanish 211-212, or equivalent) Reading-based conversation stressing development of self-expression in Spanish. Practice in oral composition.

SPANISH 312  Staff  3 credits
Advanced Composition  
(Prerequisite: Spanish 311) Intensive writing practice stressing grammar, writing analysis, and composition.

SPANISH 313  Staff  3 credits
* Spanish Culture and Civilization  
(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  3 credits
* Topics in Latin-American Culture and Civilization  
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  Staff  3 credits
* Business Spanish  
(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, 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.

SPANISH 320  Staff  3 credits
Introduction to Literature  
(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  Staff  3 credits
* Advanced Stylistics  
(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 322  Staff  3 credits
* Contemporary Issues  
(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  3 credits
History of Spanish Literature  
(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  3 credits
Survey of Spanish-American Literature  
(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  3 credits
XXth Century Spanish Drama  
(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  3 credits
Spanish-American Drama  
(Prerequisite: Spanish 320) Spanish American drama from the late XIXth century to the present, with emphasis on contemporary trends.

SPANISH 425  Dr. Ledford-Miller  3 credits
Hispanic Detective Fiction  
(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  3 credits
Topics in Spanish Prose  
(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  6 credits
Topics in Spanish-American Prose  
(Prerequisite: Spanish 320) Prose fiction of Spain 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, poet-
ry, drama and essays, and investigates the social,
political, aesthetic, and feminist contexts of their
writing. Cross-listed with Women’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
(Prerequisite: Spanish 321)  An introductory
approach to the grammatical structure (syntax),
word formation patterns (morphology), sound and
phoneme structure (phonetics), and the relation-
ship 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
(Prerequisite: Spanish 321)  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 con-
tinuing 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

GREEK 205  Dr. Petrovic
Legacy of Greece and Rome  3 credits
Survey of the artistic and cultural treasures of clas-
sical 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

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 students’
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**  
**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**  
**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**  
**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**  
**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**  
**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**  
**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. 217**  
**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**  
**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**  
**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**  
**Literature of American Minorities**  
3 credits  
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 208**  
**French Masterpieces in English Translation**  
3 credits  
(Formerly Fren 205) The study of selected major works from the leading French writers of the 19th and 20th century that have made an important contribution to the development of Western civilization. Such authors as Stendhal, Flaubert, Gide, Proust, Camus, and Malraux will be discussed. (GE AREA IV)

**LIT 209**  
**Masterworks of Russian and Slavic Literature**  
3 credits  
A survey of major literary achievements of Slavic peoples. Dostoyevsky, Tolstoy, Cosing, Sienkiewicz and Solzhenitsyn will be read. No knowledge of Slavic languages is required. All readings and lectures are in English. (GE AREA IV)
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 department’s success in this area.

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<th>Dept. and No.</th>
<th>Descriptive Title of Course</th>
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<td>Nat. Sci./Quant.</td>
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<td>GE AREA V</td>
<td>Phil-T/RS</td>
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<td>Philosophy and/or Religious Studies</td>
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</table>

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 History/Political Science 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  3 credits
The Historian at Work
Introduction to the techniques of historical research including the use of library and bibliographic 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  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.

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 a comparative perspective.

H/PS 214  Dr. DeMichele
World Politics  3 credits
(See description under Political Science.)

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.

H/PS 215  Dr. Homer
War and Modern Society  3 credits
(See description under Political Science.)

H/PS 216  Dr. Harris
Gender and the Work Force  3 credits
(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.

H/PS 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 Kievian 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.
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<td>H/PS 227</td>
<td>Dr. Earl</td>
<td>Soviet Foreign Policy</td>
<td>3 credits</td>
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<td>HIST. 228-229</td>
<td>Fr. Scott</td>
<td>Ancient History</td>
<td>6 credits</td>
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<td></td>
<td></td>
<td>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.</td>
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<tr>
<td>HIST. 230-231</td>
<td>Staff</td>
<td>Medieval History</td>
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<td>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.</td>
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<tr>
<td>HIST. 232</td>
<td>Dr. DeMichele</td>
<td>England, 1485 to 1714</td>
<td>3 credits</td>
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<td>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.</td>
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<tr>
<td>HIST. 233</td>
<td>Dr. DeMichele</td>
<td>England, 1714 to Present</td>
<td>3 credits</td>
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<td></td>
<td></td>
<td>Parliamentary 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.</td>
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<tr>
<td>HIST. 234-235</td>
<td>Prof. Williams</td>
<td>Latin America History</td>
<td>6 credits</td>
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<td>(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.</td>
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<td>HIST. 236</td>
<td>Dr. Homer</td>
<td>Modern Germany: Unification &amp; Empire</td>
<td>3 credits</td>
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<td>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.</td>
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<tr>
<td>HIST. 237</td>
<td>Dr. Homer</td>
<td>Modern Germany: the 20th Century</td>
<td>3 credits</td>
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<td>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 &quot;economic miracle. “</td>
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<tr>
<td>HIST. 238</td>
<td>Dr. Poulson</td>
<td>History of American Women: From Colonization to Mid-19th Century</td>
<td>3 credits</td>
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<td></td>
<td></td>
<td>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.</td>
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<tr>
<td>HIST. 239</td>
<td>Dr. Poulson</td>
<td>History of American Women: From Mid-19th Century to the Present</td>
<td>3 credits</td>
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<tr>
<td></td>
<td></td>
<td>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.</td>
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<tr>
<td>H/PS 235</td>
<td>Dr. DeMichele</td>
<td>Britain: Past and Present</td>
<td>3 credits</td>
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<td></td>
<td>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.</td>
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<tr>
<td>HIST. 310</td>
<td>Dr. Champagne</td>
<td>Colonial America, 1607-1763</td>
<td>3 credits</td>
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<td>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.</td>
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<tr>
<td>HIST. 311</td>
<td>Dr. Champagne</td>
<td>American Revolution, 1763-1789</td>
<td>3 credits</td>
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<td></td>
<td>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.</td>
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<tr>
<td>HIST. 312</td>
<td>Dr. Champagne</td>
<td>The Early National Period of American History, 1789-1824</td>
<td>3 credits</td>
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<td></td>
<td></td>
<td>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.</td>
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<tr>
<td>HIST. 313</td>
<td>Dr. Champagne</td>
<td>The Age of Andrew Jackson, 1824-1850</td>
<td>3 credits</td>
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<td></td>
<td></td>
<td>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.</td>
<td></td>
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</table>
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:  3 credits
1900-1929
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:  3 credits
1929-1960
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.

H/PS 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  Staff
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/PS 319-320  Dr. Hueston
American Diplomatic History  6 credits

HIST. 321-322  Dr. Hueston
American Ideas and Culture  6 credits

HIST. 323-324  Staff
Renaissance and Reformation  6 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.

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  Staff
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)
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<th>Credits</th>
<th>Prerequisites</th>
<th>Content Description</th>
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<tr>
<td>HIST. 329</td>
<td>Prof. Williams: Europe, 1815-1875</td>
<td>3</td>
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<td>(Prerequisite: Hist. 121)</td>
<td>The Congress of Vienna and the European Restoration; Industrialism, Liberalism, Socialism, and Nationalism: the revolutions of the 1840’s: the unification of Italy and the German Empire; Russia and the Lesser States of Europe; the Third French Republic.</td>
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<tr>
<td>HIST. 330</td>
<td>Prof. Williams: Europe, 1875-1918</td>
<td>3</td>
<td></td>
<td>(Prerequisite: Hist. 121)</td>
<td>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.</td>
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<tr>
<td>HIST. 331</td>
<td>Dr. Poulson: Recent U.S. History: 1960 to the Present</td>
<td>3</td>
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<td>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.</td>
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<td>H/PS 331</td>
<td>Dr. DeMichele: English Constitutional and Legal History to 1485</td>
<td>3</td>
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<td>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.</td>
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<tr>
<td>H/PS 332</td>
<td>Dr. DeMichele: English Constitutional and Legal History, 1485 to Present</td>
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<td>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.</td>
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<tr>
<td>HIST. 332</td>
<td>Dr. Kennedy: America in the Gilded Age</td>
<td>3</td>
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<td>(Recommended for background: History 111)</td>
<td>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.</td>
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<tr>
<td>HIST. 333-334</td>
<td>Dr. Earl: Twentieth Century Europe</td>
<td>3</td>
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<td>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.</td>
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<td>HIST. 335</td>
<td>Prof. Williams: World War II, Cold War &amp; Detente</td>
<td>3</td>
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<td>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.</td>
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<td>HIST. 336</td>
<td>Atty. Rosenberg: History of American Law</td>
<td>3</td>
<td></td>
<td>(Prerequisite: H110 and H111)</td>
<td>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.</td>
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<td>H/PS 338</td>
<td>Dr. Parente: Politics of Islam</td>
<td>3</td>
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<td>(See description under Political Science.)</td>
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<td>HIST. 490</td>
<td>Staff: Seminar in European History</td>
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<td>Analysis of selected topics in European history from the fifteenth to the twentieth century. Extensive readings. Historical research and writing stressed.</td>
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<tr>
<td>HIST. 491</td>
<td>Staff: Seminar in American History</td>
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<td></td>
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<td>Analysis of selected topics in American history from the Colonial era to the present. Extensive readings. Historical research and writing stressed.</td>
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</table>
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.

**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.

<table>
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<th>Dept. and No.</th>
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<td>GE AREA III</td>
<td>CMPS 134</td>
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<td>GE AREA III</td>
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<td>Analysis II-III</td>
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<td>Linear Algebra</td>
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<td>Phys. 140-141</td>
<td>Elements of Phys. I-II</td>
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<td>Math 446</td>
<td>Real Analysis I</td>
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<td>Modern Algebra I</td>
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<td>Phil. &amp;/Or T/R</td>
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</table>

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 Math 447 or 449, and at least two of Math 312, 345, 460, 461. 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 103 or Math 109.

MATH 108  
Quantitative Methods III 3 credits
(Prerequisite: Math 107 or equivalent) Topics from integral calculus including the definite and indefinite integral, techniques of integration, and multivariable calculus. Not open to students with credit for Math 103 or Math 109.

MATH 109  
Quantitative Methods in the Behavioral Sciences 4 credits
The mathematics necessary for elementary statistics: algebraic rules, logic, equations, functions, 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, eigenvectors, inner products, and orthogonality.

MATH 340
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 I 3 credits
(Prerequisite: Math 351) Fundamental properties of groups, rings, polynomials, and homomorphisms.

MATH 449
Modern Algebra II 3 credits
(Prerequisite: Math 448) Further study of algebraic structures.

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, Stokes; and Gauss’ Theorems. Applications.
MILITARY SCIENCE

LTC. WETHERELL

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 $150 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 a substantial portion of tuition, textbooks, lab, and other academic fees, plus a subsistence allowance of up to $1,500 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 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 IV 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 Army'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)

PHED 138
Army Physical Fitness  1 credit
Training Program
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.

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<th>Dept. and No.</th>
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<td>MAJOR</td>
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<td>Fund. of Psych</td>
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<td>MAJOR</td>
<td>Biol. 141-142</td>
<td>General Biol. I-II</td>
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<td>Chem. 112-113</td>
<td>Gen. &amp; Anal. Chem.</td>
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<td>GE AREA III</td>
<td>Communications</td>
<td>Electives **</td>
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<td>GE AREA V</td>
<td>Phil. 120</td>
<td>Intro. to Phil.</td>
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<td>PHYS EDUC</td>
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<td>Physical Education</td>
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<td>TOTAL: 134½ to 143½ credit</td>
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* 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.

** 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.

** 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
Undergraduate Research in Neuroscience
(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:

1) 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);

2) 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;

3) To introduce the student to reading critically the great philosophers, past and present;

4) 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, 410, 411, 418, 420, 425, 430, 431, 432, 433, 434, 484.

PHIL 120, Introduction to Philosophy, is a prerequisite to any other philosophy course.

PHIL 120
Introduction to Philosophy
Staff
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 or her own approach to philosophical problems.

PHIL 210
Ethics
Staff
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
Business Ethics
Drs. Klonoski, Black
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
Medical Ethics
Dr. Baillie, Fr. McKinney
3 credits
(Prerequisite: Phil. 210) The course will introduce the student to the presence of basic ethical concerns in the practice and distribution of health care. The course will emphasize both current scholarship and the practical nature of the subject through the discussion of medical cases, ethical theories, and current readings. Recommended for those interested in the health care professions.

PHIL 213
Environmental Ethics
Dr. Casey
3 credits
(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
Computers and Ethics
Dr. Nordberg
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.
### PHILOSOPHY

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<th>Dept. and No.</th>
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**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.

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**PHIL 218**  
*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 219**  
*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.
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: matthis 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. Black
Oriental Philosophy 3 credits
An introduction to the classical and modern Chinese understanding. The course will focus on the Daoist’s teachings and vision, the modifications made to Daoism by Buddhism, and the thought of Confucius and the Neo-Confucians. Included in the course will be comparisons and contrasts with Western thought and some discussion of Japanese Buddhism. The topics of the course will include 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, Dr. Rowe
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 Staff
Philosophy of Women 3 credits
This course reviews the philosophies of women in western thought from Plato and Aristotle to Nietzsche, 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

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 Kant’s criticism and Hegel’s revaluation of such proofs, and reflect on modern theories of language about God.

PHIL 234 Fr. Mohr
Existentialism 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.

117
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 be 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 Freud’s 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 modernism. 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  Drs. Capestany, Black  
Aesthetics  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 quarrel 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 Plato’s dialectic turns on the “concept” of difference. Thaetetus, Sophist, and Parmenides will be emphasized.

PHIL 328  Dr. Meagher
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 Aquinas’ 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’ 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 postmodern 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 lived-world and as a unique philosophical method.

PHIL 420  Dr. Black
Philosophy of Rhetoric  3 credits
A systematic 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 various relationships between rhetoric and philosophy.

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 Darwin’s The Origin of Species (1859) and The Descent of Man (1871) and Popper, Feyerabend, Hanson, Stace, Quine, Frank, Rescher, Hempel and Baier.

PHIL 432  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. Spalletta, 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.

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* 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.

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TOTAL: 144 credits

* Department recommends Engl. 107, Comm. 100, and CMPS 134, for GE AREA III electives.

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
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 stars, 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 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 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 equipment 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 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 their 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. (GE Area I)

PHYS 107 “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 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 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 General Physics 8 credits
(Prerequisite: Mathematics 103-114) General college course for pre-medical, pre-dental and biology majors. Mechanics, heat, electricity and magnetism, sound and light. Three hours lecture and recitation and two hours laboratory.

PHYS 140-141 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 Elements of Modern Physics 4 credits
(Corequisite: 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 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 Mathematical Physics II 3 credits

PHYS 352 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 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 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 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 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 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 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 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 Undergraduate Physics Research Variable Credit
(prerequisite: Permission of the Instructor) Students choose a research project sponsored by a member of the department and approved by the instructor and Chairperson. Students gain experience with research literature, techniques and equipment. Weekly seminars are given on Quantum Mechanics and topics related to ongoing research projects. A written report is required.
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.

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<th>Dept. and No.</th>
<th>Descriptive Title of Course</th>
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<tr>
<td>MAJOR</td>
<td>PS 130-131 American National Govt.</td>
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<td>Hist 110-111 U.S. History</td>
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<td>COGNATE</td>
<td>Hist 120-121 European History</td>
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<td>GE AREA III</td>
<td>Communications Electives*</td>
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<td>GE AREA V</td>
<td>Phil. 120 Intro. to Philosophy</td>
<td>3</td>
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<td>GE AREA V</td>
<td>T/RS 121 Theology I</td>
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<td>Ph. Ed. Physical Education</td>
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**FRESHMAN**

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<td>PS 313-314-elec Western Political Thought***</td>
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**SOPHOMORE**

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**JUNIOR**

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**SENIOR**

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**TOTAL:** 127 credits

* Economics 210 and Geog. 134 are recommended as AREA II electives. As Communications electives in GE AREA III, the department recommends Comm. 100 and English 107. For GE AREA IV Humanities electives, the department recommends H/PS 317-318 and H/PS 331-332. In GE FREE AREA, the department recommends a modern foreign language in junior year with subsequent language courses to follow in senior year as part of GE AREA IV (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, 318; H/PS 214, 215, 227).

*** Political Science majors are required to take PS 240 (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.

**DOUBLE MAJORS** between any two of the majors in the History/Political 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.

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<td>TOTAL: 127 credits</td>
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* 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.

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<th>Dept. and No.</th>
<th>Descriptive Title of Course</th>
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<td>MAJOR</td>
<td>History 110-111</td>
<td>United States History 3</td>
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<td>MAJOR</td>
<td>Pol. Sci. 130-131</td>
<td>American National Government 3</td>
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<td>COGNATE</td>
<td>Language 101-102</td>
<td>Elementary or Intermediate 3</td>
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<td>GE AREA III</td>
<td>Communications</td>
<td>Electives * * 3</td>
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<td>GE AREA V</td>
<td>Phil. 120</td>
<td>Introduction to Philosophy 3</td>
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<td>T/R/S 121</td>
<td>Theology I 3</td>
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<td>PHYS EDUC</td>
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<td>Physical Education</td>
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| SOPHOMORE    |                           |         |
| MAJOR        | History 120-121            | Europe: 1500 to Present 3 |
| MAJOR        | Pol. Sci. 212-213          | Internat. Rel.-Geopolitics 3 |
| MAJOR        | Geog. 134                  | World Regional Geography 3 |
| GE AREA II   | Economics 153-154          | Prin. of Micro.-Macro. Eco. 3 |
| GE AREA III  | Language                   | Intermediate or Advanced 3 |
| GE AREA V    | Phil. 210                  | Ethics 3 |
| PHYS EDUC    | T/R/S 122; Phil-T/R/S      | Physical Education 1 |

| JUNIOR *     |                           |         |
| MAJOR        | Hist. or Pol. Sci          | Electives * 6 |
| COGNATE      | Electives                  | Electives 3 |
| GE AREA I    | Nat. Sci./Quant.           | Electives 3 |
| GE AREA V    | T/R/S 122; Phil-T/R/S      | Theol. II; Electives** 3 |
| GE FREE      | Elective                   | Elective 3 |

| SENIOR       |                           |         |
| MAJOR        | H/PS 390                   | Seminar 3 |
| COGNATE      | Electives                  | Electives 3 |
| GE AREA I    | Nat. Sci./Quant.           | Elective 3 |
| GE AREA II   | Social/Behavior            | Electives 3 |
| GE AREA IV   | Humanities                 | Electives 3 |
| GE AREA V    | T/R/S                      | T/R/S Elective 3 |
| GE FREE      | Elective                   | Elective 3 |

**TOTAL: 127 credits**


**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. 240, P.S. 310, P.S. 322, P.S. 323, P.S. 324, and P.S. 325.

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. Parente  
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   Dr. VanDyne  
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 Western 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 318 Dr. VanDyke
**U.S. Foreign Policy: Cold War and Aftermath**
3 credits
(Prerequisite: History 111) Examines and analyzes critically the content of American Foreign Policy in the Cold War and post-Cold War eras. Special emphasis on themes, goals and means of American foreign policy, particularly national security vis-a-vis the U.S.S.R.

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 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.

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.

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.

II/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.

II/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.

II/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.

II/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.

II/PS 225 Drs. Earl, DeMichele
**Ethnic & Racial Minorities in Northeastern Pennsylvania**
3 credits
(See description under History.)

II/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; H/PS 317 is prerequisite for H/PS 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.)

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.

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 versus 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 department’s 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 not 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, 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: 18 credits.

PSYCH. 105 (Area I) Dr. Cannon 3 credits
Brain and Human Nature
An examination of the human mind, brain, and why we are the way we are. Topics include: the mind-body problem, the nature of consciousness, the evolution of behavior, addictions (e.g., love), eating disorders, depression, and aggression. (Credit cannot be earned for this course and Psych 231; Not open to Psychology majors or minors.)

PSYCH. 106 (Area I) Dr. Cannon 3 credits
Drugs and Behavior
This course will examine interactions between drugs and behavior. Behavioral topics will include: tolerance, addiction, learning, aggression, sexual behavior, eating, anxiety, depression, and schizophrenia. Drug/drug categories will include: alcohol, cannabis, opiates, antidepressants, and antianxiety. (Credit cannot be received for this course and Psych 384, Psychopharmacology; Not open to Psychology majors or minors.)

PSYCH. 110 Staff 3 credits
Fundamentals of Psychology
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 3 credits
Psychological Statistics
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 Dr. Baril 3 credits
Social Psychology
(Prerequisite: Psych. 110) Social determinants of behavior from a psychological perspective. Topics include liking, love, conformity, persuasion, attitude change, and person perception. Spring only.
PSYCHOLOGY

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<td>Quantitative Methods</td>
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<td>GE AREA II Soc. 110 *</td>
<td>Intro. to Sociology *</td>
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<td>GE AREA V Phil. 120-T/RS 121</td>
<td>Intro. to Phil.-Theol. I</td>
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| SOPHOMORE                     |                                           |         |
| MAJOR Psych. 210-330          | Statistics-Research Methods               | 3       |
| MAJOR Psychology              | Psychology Electives                      | 3       |
| COGNATE Science Electives**   | Elective-Elective *                       | 6       |
| GE AREA II Wrtg. 211*         | Technical & Business Writing *             | 3       |
| PHYS EDUC Ph. Ed.             | Physical Education                        | 1       |

| JUNIOR                        |                                           |         |
| MAJOR Psychology              | Psychology Electives                      | 6       |
| COGNATE Elective              | Electives                                  | 3       |
| GE AREA II Elective *         | Elective *                                 | 3       |
| GE AREA IV Humanities         | Elective                                  | 3       |
| GE AREA V Phil. 210-Ph. 430   | Behavioral Science or Phil. of Science    | 3       |

| SENIOR                        |                                           |         |
| MAJOR Psychology              | Elective                                  | 3       |
| COGNATE SSCI 490-SSCI 491     | History & Lit. of Psych. I-II             | 2       |
| GE AREA IV Elective *         | Elective *                                 | 3       |
| GE AREA V TRS 122-T/RS-Phil.  | Electives                                 | 3       |
| GE FREE Electives             | Electives                                 | 6       |

| 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 social/behavioral 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. 221 Dr. Buchanan
Childhood and Adolescence 3 credits
(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. Slotterback
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.

PSYCH. 224 Staff
Personality 3 credits
(Prerequisite: Psych. 110) A survey and critical evaluation of personality and its implications for assessment, psychotherapy, and research.

PSYCH. 225 Drs. Alford, Norcross
Abnormal Psychology 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)  Dr. O’Malley  Sensation and Perception  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)  Dr. Cannon  Behavioral Neuroscience  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, brain/body 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  Dr. Buchanan  Cognitive Psychology  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)  Dr. Dunstone  Conditioning and Learning  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  Dr. Baril  Industrial/Organizational Psychology  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  Psychology of Women  3 credits  (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. 284 may only be used once to satisfy major elective requirements.

PSYCH. 284  Drs. Norcross & Cannon  Special Topics:  3 credits  Behavior Modification

PSYCH. 284  Dr. O’Malley  Special Topics:  3 credits  Sports Psychology

PSYCH. 284  Dr. Waddill  Special Topics:  3 credits  Psychology of Language

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 (Area I)  Dr. Cannon  Special Topics:  3 credits  Psychopharmacology  (Prerequisite: Psych. 231)

PSYCH. 384  Dr. Alford  Special Topics:  3 credits  Cognitive Psychotherapies  (Prerequisite: Psych. 225)

PSYCH. 384 (Area I)  Dr. Hogan  Special Topics:  3 credits  Multivariate Statistics  (Prerequisite: Psych. 210)

* * *
PSYCH 480  Drs. Norcross, Alford
Field Experience in Clinical Settings  3 credits
(Prerequisites: a "C" or better in Psych 225, Psych 360, and 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; graded S/U.

PSYCH 481  Dr. Baril
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; graded S/U.

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. Fall only.

SSCI 491  Staff
History and Literature of Psychology II  1.5 credits
(Prerequisite: Senior status; 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 preferences. Spring only.

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 relevant 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.
SOCIOMETRY
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 pre-professional 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, Ger. 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.

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<td>FRESHMAN</td>
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<tr>
<td>MAJOR</td>
<td>Soc. 110-112</td>
<td>Introduction to Soc.–Social Problems</td>
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<td>Psych. 110</td>
<td>Fundamentals of Psychology</td>
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<td>Nat. Sci./Quant.</td>
<td>Elective*</td>
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<tr>
<td>GE AREA III</td>
<td>Communications</td>
<td>Electives*</td>
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<tr>
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<tr>
<td>GE AREA V</td>
<td>Phil. 120</td>
<td>Introduction to Philosophy</td>
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<tr>
<td>GE AREA V</td>
<td>T/RS 121</td>
<td>Theology I</td>
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<td>MAJOR</td>
<td>Soc. 318-Soc. Elective</td>
<td>Sociological Theory-Elective</td>
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<td>HS 241-Soc.Sci. Elective</td>
<td>Case Mgmt. &amp; Interviewing</td>
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<td>MAJOR</td>
<td>Soc. 211-Soc. Elective</td>
<td>Methods of Social Research-Elective</td>
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<td>Pol. Sci.</td>
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<td>GE AREA V</td>
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<td>Soc. 480, 481*/Eleccts.</td>
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TOTAL: 127 credits

* Department Recommendation

In GE AREA I, the department recommends Biology 101 and 102, 103 and 196, and Nursing 100; In GE AREA III, the department recommends Comm. 100, Engl. 107, and CMPS 104. In the COGNATE Social 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:
1. 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, etc;
3. to provide a liberal gerontology education with special emphasis on the development of the whole person;
4. 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.

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<td>Intro. to Gerontology</td>
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<td>Psych. 110-HADM 112</td>
<td>Fundamentals of Psych.-Health Systems</td>
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<td>Gero. 232</td>
<td>Aging and Death</td>
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<td>MAJOR</td>
<td>Geronotology</td>
<td>Electives</td>
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<td>HS 241</td>
<td>Case Management and Interviewing-Soc. 228</td>
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<td>GE AREA III</td>
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<td>Psych. 222</td>
<td>Adulthood &amp; Aging</td>
<td>3</td>
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<td>COGNATE</td>
<td>Soc. 224</td>
<td>American Minority Groups</td>
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<td>Electives</td>
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<td>Electives</td>
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<td>Electives</td>
<td>3</td>
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<td>Electives</td>
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<td>GE FREE</td>
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TOTAL: 127 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).

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, Engl. 107, and CMPS 104. In the COGNATE as Social Science Electives, the department recommends HS 321, HADM 311; Sociology 112, 115, 116, 216.
MINORS


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. Pyle 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. Pyle 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. 132 Dr. Rynn Introduction to Archaeology 3 credits 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. 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. Pyle 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.

SOC. 214 Dr. Talamini 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. Pyle 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 Professions 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. Renny, Prof. Pyle  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. Renny, 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  Dr. Rynn  Peoples of East Asia  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 480-481  Dr. Reilly  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 and/or 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 sequence—courses 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 Around the World 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 Ms. Borsuk, 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 Ms. Borsuk, 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
DR. FREIN, 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 theology/religious 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 T/RS 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.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tr>
<td>T/RS 121-122</td>
<td>Theology I-II</td>
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<td>T/RS 200</td>
<td>Inside the Old Testament</td>
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<td>T/RS 201</td>
<td>Inside the New Testament</td>
<td>3 credits</td>
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<tr>
<td>T/RS 204</td>
<td>Pauline Letters</td>
<td>3 credits</td>
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<td>T/RS 205</td>
<td>The Gospels and Jesus</td>
<td>3 credits</td>
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<td>T/RS 206</td>
<td>The Four Gospels</td>
<td>3 credits</td>
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<td>T/RS 210</td>
<td>The Christian Religious Tradition</td>
<td>3 credits</td>
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<td>T/RS 211</td>
<td>Great Books I: Perspectives on Western Culture</td>
<td>3 credits</td>
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<td>T/RS 213</td>
<td>American Catholic Thought</td>
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<td>T/RS 216</td>
<td>Western Theological Movements</td>
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THEOLOGY/RELIGIOUS STUDIES

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<td>Major T/RS 121-122</td>
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<td>GE AREA II</td>
<td>Social/Behavior</td>
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<td>GE AREA V</td>
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**FRESHMAN**

| Major T/RS 121-122 | Theology I/Theology II                              | 3 3     |
| COGNATE       | Electives                                           | 3 3     |
| GE AREA I     | Nat. Sci./Quant.                                    | 3 3     |
| GE AREA II    | Social/Behavior                                     | 3 3     |
| GE AREA III   | Communication                                       | 3 3     |
| GE AREA V     | Phil. 120                                           | 3 3     |
| GE FREE       | Elective                                            | 3       |
| PHYS EDUC     | Ph. Ed.                                             | 1 1     |

| Sophomore Major T/RS | Second Year Electives                              | 3 3     |
| COGNATE       | Electives                                           | 3 3     |
| GE AREA I     | Nat. Sci./Quant.                                    | 3 3     |
| GE AREA II    | Electives                                           | 3 3     |
| GE AREA III   | Elective                                            | 3       |
| GE AREA IV    | Ethics                                              | 3       |
| PHYS EDUC     | Physical Education                                  | 1 1     |

**SOPHOMORE**

| Junior Major T/RS | Electives                                           | 3 3     |
| COGNATE       | Electives                                           | 3 3     |
| GE AREA II    | Electives                                           | 3 3     |
| GE AREA IV    | Humanities                                          | 3 3     |
| PHYS EDUC     | Electives                                           | 3 3     |

**JUNIOR**

| Senior Major T/RS | Electives                                           | 3 3     |
| COGNATE       | Electives                                           | 3 3     |
| GE AREA IV    | Humanities                                          | 3 3     |
| GE AREA V     | Electives                                           | 3 3     |
| PHYS EDUC     | Electives                                           | 3 3     |

**SENIOR**

**TOTAL: 127 credits**

MINOR: The minor in T/RS requires 12 credits beyond the introductory sequence, preferably spread over several areas.

**T/RS 220** Fr. Begley, S.J.

**Spirituality:**

Liturgy and Sacraments

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**

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**

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**

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**


**T/RS 227** Dr. Kopas, o.s.f.

**Christ in Tradition and Culture**

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
The Protestant Tradition  
Staff  
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
Modern Protestant Thought  
Dr. Pinches  
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
Moral Theology  
Msgr. Bohr & Staff  
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
Social Ethics  
Drs. Benestad, Pinches  
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, foreign policy and economic justice.

T/RS 232
John Paul II and Catholic Social Thought  
Dr. Benestad  
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
Suffering  
Dr. Steele  
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
Twentieth Century Peacemakers  
Sr. Foley, C.N.D.  
3 credits
A study of some of the principles and methods of "waging peace" found in the lives and writings of Mohandas Gandhi, Dorothy Day, Thomas Merton and Martin Luther King.

T/RS 235
The Theology of Birth and Death  
Dr. Pinches  
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 be: suicide, euthanasia, capital punishment, contraception and abortion.

T/RS 236
Faith and Justice  
Prof. Casey  
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 Pastoral and Biblical readings will be the basis of discussion.

T/RS 237
Politics: A Christian Perspective  
Prof. Casey  
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
Nietzsche and Christianity  
Dr. Benestad  
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
Theology for the 20th Century  
Staff  
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 be placed on the integration of a plurality of philosophical approaches with the theological tradition and with questions of the present day.

T/RS 302
Luke as Story  
Dr. Frein  
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
Jesus for the Gentiles: An Introduction to the Gospel of Luke  
Dr. Frein  
3 credits
The primary purpose of this course is to focus on 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 304
The Johannine Gospel & Epistles  
Dr. Mathews  
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
The Apocalypse of St. John  
Dr. Mathews  
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
Job and the Psalter  
Dr. Mathews  
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 by an 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  Staff  
**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 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 319  Dr. Kopas, o.s.f.  
**Women’s Spiritual/Autobiographical Writing**  3 credits  
(Prerequisite: permission of instructor) This course explores women’s written expressions of their spiritual lives. Readings, which include spiritual autobiographies and other writings, both classic and contemporary, focus on women’s experience and understanding of the divine-human relationship. Seminar format.

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**  3 credits  
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 II’s 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
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
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
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
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
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
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  Staff
The Jewish Way of Life
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  Staff
Judaism in the Time of Jesus
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
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
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. 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 neurophyical, 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 one’s 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, Rowe, and Friedrichs  The Holocaust  3 credits
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. (GE Areas II, 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. (GE Areas 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  Dr. Baril, Prof. S. Casey  Science and Society  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 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 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 Operations Management is described on page 161; a minor in Economics is described on page 150.

BUSINESS COGNATE

Non-business students with special needs may pursue a personal cognate in business, but may not take more than 25 percent of their total credit hours 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:

<table>
<thead>
<tr>
<th>Option I*</th>
<th>Option II*</th>
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</thead>
<tbody>
<tr>
<td>Math 107, Quantitative Methods II</td>
<td>Math 114, Analysis I</td>
</tr>
<tr>
<td>Math 108, Quantitative Methods III</td>
<td>Math 221, Analysis II</td>
</tr>
</tbody>
</table>

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 recommended 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 with a 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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<tr>
<td>Junior Year: BLDR 351 Principles of Mgt. I</td>
<td>BLDR 355 Business Ethics</td>
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<td>BLDR 385 Bus. Leadership Seminar #1 - Self-Assessment</td>
<td>BLDR 386 Bus. Leadership Seminar #2 - Empowerment</td>
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<tr>
<td>Senior Year: BLDR 455 Bus. Policy &amp; Strategy</td>
<td>BLDR 456 Creativity &amp; Entrepreneurship</td>
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<td>BLDR 485 Bus. Leadership Seminar #3 - Mentorship</td>
<td>BLDR 486 Bus. Leadership Seminar #4 - Case Study Defense</td>
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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 3 credits (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.

ACCOUNTING
Financial Accounting Track

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FRESHMAN

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SOPHOMORE

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SENIOR

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TOTAL: 132-134 credits

* See note on Math Options, page 146.
# Public Speaking (COMM 100) and Composition (ENGL 107) are required except for students who receive AP credits 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.
### Managerial Accounting Track

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**TOTAL:** 132-134 credits

* See note on Math Options, page 146.

# Public Speaking (COMM 100) and Composition (ENGL 107) are required except for students who receive AP credits 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.
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 credits
(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, Lawrence, Staff  Cost Accounting  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  Drs. R.J. Grambo, Johnson Lawrence, 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, Yori, 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 comput-
ers 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 prepara-
tion will be covered.

ACC. 474  Dr. R.J. Grambo, Staff
Accounting Information Systems  3 credits
(Prerequisite: Acc. 362) The design and applica-
tion of accounting systems in both the manual and
automated environments. Analysis of informa-
tion’s accumulation and use patterns in organiza-
tions with a focus on providing useful and timely
information. Extensive computer usage of Professional Business Software.

ACC. 475  Drs. Yori, Johnson, Lawrence
International Accounting  3 credits
(Prerequisite: ACC 362, ACC 460, ECO 351)
Students are introduced to world financial account-
ing issues. Topics include: Financial reporting in
the multinational firms, currency translations and
differing reporting standards. An analysis of the
environmental influences on accounting develop-
ment 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.
The major in ECONOMICS, which is available both through the School of Management and the College of Arts and Sciences (p. 78), 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

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<th>Descriptive Title of Course</th>
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### TOTAL: 127/129 credits

* Recommended by the department.
** See the math options on pages 146. 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.

**MINOR:** 18 credits - Eco 153, 154, 361, 362 plus two upper-level Eco. courses (SOM majors may not use Eco 351).
ECO. 153  Staff
Principles of Microeconomics  3 credits
(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
Economics 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 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 introductory economics.

ECO. 300  Dr. Edward Scabill, Staff
The Economics of Environmental Issues  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, Stat. 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. Ghosh
Mathematical Economics  3 credits
(Prerequisites: Eco. 361, Eco. 362, Stat. 253, MATH 107, MATH 108) This course studies the methodology of modern economic 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  Economics for Education Majors  3 credits
Dr. Scahill
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  Monetary & Financial Economics  3 credits
Drs. Corcione, Nguyen
(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  Managerial Economics  3 credits
Dr. Scahill
(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  Urban & Regional Economics  3 credits
Drs. Trussler, Ghosh
(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  Public Finance and Taxation  3 credits
Dr. Bose
(Prerequisite: Eco. 362) Government expenditures, budgets, intergovernmental fiscal relations, public debt, fiscal policy, and the principles of taxation.

ECO. 465  Development Economics  3 credits
Drs. Ghosh, Staff
(Prerequisite: Eco. 361-362) Principal determinants of economic development and economic growth in less-developed countries.

ECO. /IB 475  International Economics  3 credits
Dr. Bose
& Finance
(Prerequisite: Eco. 351) Advanced foreign trade theories & practices, balance of payments analysis, regional integration, exchange rates determination, foreign exchange markets, capital movements, and current international economic problems.
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
- Trust Officer
- Security Broker
- Financial Analyst
- Working Capital Management

FINANCE

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<td>FRESHMAN</td>
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<td>Intro. to Phil.-Theology I</td>
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<td>PHYS EDUC</td>
<td>Ph. Ed.</td>
<td>Electives</td>
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SOPHOMORE

| BUS CORE | Acc. 251-252 | Financial Accounting I-II | 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 & Lab | 3 |
| GE AREA IV | Humanities | Elective | 3 |
| GE AREA V | Phil. 210- T/RS 122 | Ethics-Theology II | 3 |
| PHYS EDUC | Ph. Ed. | Electives | 1 |

JUNIOR

| MAJOR | Eco. 361-362 | Intermediate Micro.-Macro. Eco. | 3 |
| MAJOR | Fin. 361 | Working Capital Mgt. | 3 |
| MAJOR | Fin. 362 | Investments | 3 |
| BUS CORE | Mgt. 351-352 | Principles of Management I-II | 3 |
| BUS CORE | Fin. 351-Mkt. 351 | Intro. to Finance-Intro. to Mkt. | 3 |
| BUS CORE | OIM 352 | Intro. to Oper. Mgt. | 3 |
| BUS CORE | Eco. 351 | Environment of Intl. Bus. | 3 |

SENIOR

| MAJOR | Eco. 460- | Monetary & Fin. Eco. | 3 |
| MAJOR | Fin. 470- | Capital Inv. & Struct.- | 3 |
| MAJOR | Major Elec. | Fin. Elective | 3 |
| BUS CORE | Mgt. 455 | Bus. Policy & Strategy | 3 |
| BUS CORE | OIM 471 | Bus. Information Mgt. | 3 |
| GE AREA I-IV | Nat. Sci./Humanities | Electives | 3 |
| GE AREA V | T/R/S- Phil. 211 | Elective-Business Ethics | 3 |
| GE FREE | Elective | Elective | 3 |

TOTAL: 133-135 credits

* See note on Math Options, page 146.
# Public Speaking (COMM 100) and Composition (ENGL 107) are required except for students who receive AP credits or are certified by exam as satisfying the Communication Skills Requirement.
FIN. 351 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 Working Capital Management  3 credits  (Prerequisite: Fin. 351) This course is designed to provide 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 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. 471 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 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 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 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

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** Total: 132-134 credits

* See note on Math Options, page 146.

# Public Speaking (COMM 100) and Composition (ENGL 107) are required except for students who receive AP credits or are certified by exam as satisfying the Communication Skills Requirement.

** Four of the five following courses: Acc 475, Eco/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 prerequisites beyond the business core.)

## Global Studies electives are Geog 134 (highly recommended), PS 212, PS213, H/PS 214, H/Geog 217.

### Area Studies electives are courses that focus on specific areas or regions of the world (not U.S.), including culture courses taught in a foreign language.
MANAGEMENT

**DR. BIBERMAN, Chairperson**

Management involves getting things done through people. The management major provides students with a broad-based, generalist background that is designed to provide graduates with the skills and tools needed to successfully cope with the challenging roles and expectations that are sweeping through organizations. "Getting things done" involves analyzing, designing and continuously improving an organization’s structure and processes. "Through people" involves leading, motivating, and working effectively with other people in teams and other settings. Management courses use a variety of teaching techniques that involve a high degree of student/faculty interaction—including experimental exercises, student presentations, simulations and team activities—to develop self-analytic skill development, team and communication skills. Graduates of the major will practice skills in coping with the needs of organizations in the areas of social responsibility, globalization, and the understanding of a regulatory environment. Students are encouraged to work with their faculty and advisors in choosing from a variety of courses to design a program of study that will prepare them to enter a variety of positions in private industry, government, educational institutions, small businesses and not-for-profit organizations.

### MANAGEMENT

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<th>Dept. and No.</th>
<th>Descriptive Title of Course</th>
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* See note on Math Options, page 146.
# Public Speaking (COMM 100) and Composition ENGL 107) are required except for students who receive AP credits or are certified by exam as satisfying the Communication Skills requirements.
** In consultation with their advisor, management majors should choose two of the following four focus courses; MGT 361, 362, 460, or 461. MGT 361 and 362 focus more on people skills; MGT 460 and 461 focus more on organization- and administrative processes.
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, OIM 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 include technology and size influences, conflict, boundary roles, matrix structure, political factors and sociotechnical systems.

MGT. 461  Drs. Brumagim, Tischler  Management of Administrative Processes and Change  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  Dr. Brumagim, Staff  Project Management in Organizations  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 Drs. Biberman, McKeage
Group Dynamics 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 male/female 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. 475 Dr. Chowdhury, Staff
International Management 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
DR. BIBERMAN, Chairperson

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

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# Public Speaking (COMM 100) and Composition (ENGL 107) are required except for students who receive AP credits 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 mar-
ketplace is examined. The marketing concept is
presented as the framework under which the deci-
sions related to marketing mix variables (product,
place, price and promotion) are made by organiza-
tions.

MKT. 361  Dr. Chattopadhyay, Staff
Marketing Research  3 credits
(Prerequisite: Mkt. 351) Study of the role of mar-
keting information as the basis for decision mak-
ing. Topics include research design, methods of
gathering data, questionnaire structure, interview-
ing 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 con-
sumer behavior. The buyer is analyzed at the indi-
vidual level in terms of motivation, attitudes, etc.,
and at the social level in terms of influence on
buying behavior from the socio-economic environ-
ment.

MKT. 470  Dr. Zych, Staff
Marketing Communications  3 credits
(Prerequisite: Mkt. 351) Personal and mass com-
munication approaches generated by manufactur-
ers and intermediates or institutions toward target
markets. The design of advertising campaigns to
shift consumer attitudes, to secure resellers’ sup-
port 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: Mkt. 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, OIM
351) This course is intended to focus on the deci-
sion areas facing retail managers. Topics to be
covered will include retailing, structure, merchan-
dising, locations, store layout, promotion, pricing
and personnel.

MKT./IB 475  Dr. Chattopadhyay
International Marketing  3 credits
(Prerequisites: Mkt. 351) Analysis of the market-
ing 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 corre-
sponding market entry strategies will be analyzed.
Additional readings from international publica-
tions 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 differ-
cent decision models within functional areas such
as demand analysis, consumer research, product
and promotion management, etc. Case discussions
and advanced readings will be required.
OPERATIONS AND INFORMATION MANAGEMENT

DR. KAKUMANU, Chairperson

Operations and Information Management is primarily concerned with the effective management of production and operations systems in manufacturing and service organizations. Career opportunities include:

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OPERATIONS MANAGEMENT

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TOTAL: 127 credits

* See note on Math Options, page 146.

# Public Speaking (COMM 100) and Composition (ENGL 107) are required except for students who receive AP credits or are certified by exam as satisfying the Communication Skills Requirement.

MINOR IN OPERATIONS MANAGEMENT. The minor in Operations Management (18 credits) must include Stat. 252, OIM 351, OIM 352, OIM 471 and any two of the following: OIM 361, OIM 363, OIM 364, OIM 365, OIM 470, OIM 473, OIM 476, or OIM 490.
STAT 251  Drs. Gnanendran, Gougeon,  Statistics for Business I  Sebastianelli, Staff 3 credits  
(Formerly QMS 251; 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 using MINITAB.

STAT 252  Drs. Gnanendran, Gougeon,  Statistics for Business II  Sebastianelli, Staff 3 credits  
(Formerly QMS 252; Prerequisite: Stat. 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 using MINITAB.

STAT 253  Drs. Gougeon, Kakumunu, Staff  Statistics for Economics  3 credits  
(Formerly QMS 253; Prerequisite: Math 107 or 114) Coverage of statistical tools to analyze economics data. Topics include measures of central tendency, dispersion, probability distributions, index numbers, time series analysis, regression and correlation, and analysis of variance using MINITAB.

OIM 351  Drs. Chien, Cunningham,  Introduction to Management Science  3 credits  
(Formerly QMS 351; Prerequisite: Junior standing, CMPS 104, Stat. 251) 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. Model analysis will be done using LINDO.

OIM 352  Drs. Chien, Cunningham,  Introduction to Management Science  3 credits  
(Formerly POM 352; Prerequisites: OIM 351, Stat. 252) A functional view of how to manage the activities involved in the process of converting or transforming resources into products or services. Topics include an overview of strategic decisions, forecasting, product design, process planning, facility layout, basic inventory models, capacity planning, aggregate planning and scheduling.

OIM 361  Drs. Cunningham, Tamimi, Staff  Productivity Management  3 credits  
(Formerly POM 361; Prerequisites: OIM 351, Stat. 252) 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.

OIM 363  Drs. Sebastianelli, Tamimi, Staff  Total Quality Management  3 credits  
(Formerly POM 363; Prerequisite: Stat. 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, e.g. Deming and Crosby. 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, ISO 9000 standards and the role of inspection in TQM.

OIM 364  Drs. Cunningham, Prattipati,  Service Operations Management  3 credits  
(Formerly POM 364; Prerequisite Stat.252) Principles of operations management applied to service organizations. 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.

OIM 365  Dr. Cunningham, Staff  Logistics Management  3 credits  
(Formerly POM 365; Prerequisite: OIM 352) The design, operation and control of logistics systems for production and service firms. Topics include activities associated with the physical supply and physical distribution efforts of the firm such as facility location, logistics customer service, order processing systems, mode and carrier selection, warehousing, and logistics requirements planning.

OIM 470  Drs. Chien, Gnanendran, Staff  Production Planning and Control  3 credits  
(Formerly POM 470; Prerequisite: OIM 352) Production planning and inventory management within the organization. Topics include forecasting, aggregate planning, capacity planning, master production scheduling, material requirements planning, production activity control, purchasing, inventory models, and problems of practical applications.

OIM 471  Drs. Kakumunu, Prattipati,  Business Information Management  3 credits  
(Formerly POM 471; Prerequisites: CMPS 104, Mgt. 351) Computers and how they can be applied to the operations and management of business firms. 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. Software packages will be used to gain hands-on experience.

OIM 473  Drs. Kakumunu, Prattipati, Staff  Business Applications of Communication Networks  3 credits  
(Formerly POM 473; Prerequisite: OIM 471) Use of computer and telecommunication networks to achieve organizational goals. Topics include data communications; planning and design of communication networks; data integrity, independence, and security; client-server computing; global communication; the INTERNET; applications of telecommunication networks and current issues and future trends.

OIM 476  Drs. Tamimi, Prattipati, Staff  Technology Management  3 credits  
(Formerly POM 476; Prerequisite OIM 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 service sectors; 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

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

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<td>MAJOR HS 112</td>
<td>Human Services Systems</td>
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<td>COGNATE Psych. 110 *</td>
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<td>GE AREA III Communications **</td>
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**SOPHOMORE**

| MAJOR HS 241 | Case Management and Interviewing | 3       |      |        |
| MAJOR HS 242 | Counseling Theories | 3       |      |        |
| MAJOR HS 293 | Research Methods in Human Services | 3       |      |        |
| COGNATE Psych. 221-222 | Childhood and Adolescence-Adulthood and Aging | 3       | 3    |        |
| GE AREA I Nat. Sci./Quant. | Electives | 3       | 3    |        |
| GE AREA IV Humanities | Electives | 3       | 3    |        |
| GE AREA V T/RS 122- Phil. 210 | Theology II-Ethics | 3       | 3    |        |
| PHYS EDUC Ph. Ed. | Physical Education | 1       | 1    |        |

**JUNIOR**

| MAJOR HS 340 | Career Seminar | 1       |      |        |
| MAJOR HS 341 | Group Dynamics | 3       |      |        |
| MAJOR HS 380 | Internship in Human Services | 3       |      |        |
| MAJOR HS Electives | Human Services Electives | 3       | 6    |        |
| COGNATE Electives | Electives | 3       | 3    |        |
| GE AREA I Nat. Sci./Quant | Elective | 3       |      |        |
| GE AREA IV Humanities | Elective | 3       |      |        |
| GE AREA V Phil.-T/RS | Elective | 3       |      |        |

**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 Phil.-T/RS | Elective | 3       |      |        |
| GE FREE Electives | Electives | 3       | 6    |        |

**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 0 credits
Service Learning
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
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 Focusses 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 Inter session 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, Chairperson
DR. JONES, Director of Secondary Education
DR. DiGIAIMO, Director of Elementary Education

The Department of Education endeavors to contribute to the improvement of education by preparing informed, inquiring, and skilled professionals who, as scholars and decision makers, are prepared 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 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. 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 his/her 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 each 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 (available in the Weinberg Memorial Library and the Education Department). The academic standard of the Education Department is a 2.5 cumulative GPA in Education classes, in teaching area classes, and overall. Additionally, a grade of “C” or better is required in all major and teaching area classes to elicit a recommendation for certification. Students whose professional development is unsatisfactory 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.

EDUC. 110
Values Development
Prof. Cannon
3 credits
A course designed to acquaint the student with the 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.

EDUC. 113
Reading-Research
Staff
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)
## ELEMENTARY EDUCATION

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**TOTAL:** 132 credits

* PHYS ED. — 1 credit in Movement and Dance required.

** 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, 139 1/2 to 143 1/2 credits)

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* Students who fail to demonstrate competence of at least the precalculus level are required to take Math. 103 prior to the Sophomore Year.

** These courses must be scheduled in the same semester.

*** Fall/Spring courses may be reversed at the discretion of the Director of Secondary Education.
### PROGRAM: Secondary Education (Chemistry, 139 credits)

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* * These courses must be scheduled in the same semester.
* * * Fall/Spring courses may be reversed at the discretion of the Director of Secondary Education.
**PROGRAM: Secondary Education (Communication, 134 credits)**

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** Fall/Spring courses may be reversed at the discretion of the Director of Secondary Education.
### PROGRAM: Secondary Education (English, 134 credits)

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* These courses must be scheduled in the same semester.
** Fall/Spring courses may be reversed at the discretion of the Director of Secondary Education.
### PROGRAM: Secondary Education (General Science, 143 credits)

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**FRESHMAN FALL SPRING**

| SOPHOMORE     | **EDUC 222** Educational Psychology | 3       |
| MAJOR         | **EDUC 280** Field Experience II | 1       |
| COGNATE       | **Phys. 121-121** General Physics I, II | 4, 4    |
| COGNATE       | **Cnps. 102** Computer Literacy | 3       |
| COGNATE       | **Chem. 112-113** Gen./Analy. Chem. I, II | 4½, 4½  |
| GE AREA II    | **Psych. 221** Childhood & Adolescence | 3       |
| GE AREA III   | **Elective** Elective | 3       |
| GE AREA IV    | **Elective** Elective | 3       |
| GE AREA V     | **Phil. 120** Intro. to Philosophy | 3       |
| PHYS EDUC     | **Ph. Ed.** Physical Education | 1       |
|               | **Total** | 18 1/2, 18 1/2 |

**SOPHOMORE**

| JUNIOR        | **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       | **Elective** Environ. Cntxt. | 3       |
| COGNATE       | **Phys. 101** Modern Astronomy | 3       |
| COGNATE       | **Phys. 102** Earth Science | 3       |
| COGNATE       | **Elective** Technological Cntxt. | 3       |
| GE AREA II    | **Elective** Elective | 3       |
| GE AREA IV    | **Electives** Electives | 3, 3    |
| GE AREA V     | **Phil. 210** Ethics | 3       |
| GE AREA V     | **Phil. 432** Phil. of Teaching | 3       |
|               | **Total** | 19, 18   |

**JUNIOR**

| SENIOR ** ** | **EDUC 475** Classroom Management for Sec. Educ. | 3       |
| MAJOR         | **EDUC 476** Student Teaching Plan.–Sec. Ed. | 2       |
| MAJOR         | **EDUC 477** Student Teaching Instr.–Sec. Ed. | 3       |
| MAJOR         | **EDUC 478** Student Teaching Mgmt.–Sec. Ed. | 2       |
| MAJOR         | **EDUC 479** Student Teaching Pro. Dev.–Sec. Ed. | 3       |
| COGNATE       | **Elective** Environmental Cntxt. | 3       |
| COGNATE       | **Chem. 104** Science & Society | 3       |
| GE AREA II    | **Elective** Elective | 3       |
| GE AREA IV    | **Elective** Elective | 6       |
| GE AREA V     | **Phil. 431** Philosophy of Science | 3       |
| PHYS EDUC     | **Ph. Ed.** Physical Education | 1       |
|               | **Total** | 19, 13   |

* These courses must be scheduled in the same semester.

** ** Fall/Spring courses may be reversed at the discretion of the Director of Secondary Education.
### PROGRAM: Secondary Education (Latin, 134 credits)

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**PROGRAM: Secondary Education (Math, 139 credits)**

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* An upper division math course may be substituted for Math. 103, based upon the performance on the math placement test.

** These courses must be scheduled in the same semester.

*** Fall/Spring courses may be reversed at the discretion of the Director of Secondary Education.
# PROGRAM: Secondary Education (Modern Language, 134 credits)

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* Spanish, French or German should be selected as a specialization within Modern Language (MLANG).
* * These courses must be scheduled in the same semester.
* * * Fall/Spring courses may be reversed at the discretion of the Director of Secondary Education.
* * * * Students whose specialization within Modern Languages is Spanish are required to take Span 313, Span 314, Span 320, and Span 321. In Spanish, there is no Advanced Stylistics II.
## PROGRAM: Secondary Education (Physics, 143 credits)

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* These courses must be scheduled in the same semester.

** Fall/Spring courses may be reversed at the discretion of the Director of Secondary Education.
# PROGRAM: Secondary Education (Social Studies, 134 credits)

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</table>

* These courses must be scheduled in the same semester.

** Fall/Spring courses may be reversed at the discretion of the Director of Secondary Education.
EDUC. 121
The Foundations of Education
3 credits
This course is designed to examine the characteristics of the public school system in the United States, the role of education in contemporary society, and current issues related to education.

EDUC. 140
Early Childhood Education
3 credits
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
Field Experience I
1 credit
(Pre- or Corequisite: EDUC 121) This course prepares 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
Educational Psychology
3 credits
This course examines the psychological basis of teaching strategies, classroom environment, learning, motivation, reinforcement, and evaluation.

EDUC 241
Foundations of Reading Instruction
3 credits
A basic course in reading. It provides an introduction to reading instruction, reading programs, and the reading process as it relates to language acquisition and learning to read. The readiness, reading skills, techniques and methods which are essential for effective reading will be examined.

EDUC 242
Mathematics Methods for Elementary Teaching
3 credits
The course provides 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
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 oral/written reports.

ED/P 306
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.

EDUC 310
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
The Secondary School
3 credits
Mathematics Curriculum
(Prequisite: 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
General Methods and Planning
3 credits
(Prerequisite: Education 222; Pre or co-requisite for 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
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
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
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
Educational Media and Technology
3 credits
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
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  3 credits
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  Dr. Cantrell
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 oral/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 child’s needs in the social sciences and the humanities. Planning for the instructional strategies used in teaching history, geography, and economics are examined.

EDUC. 347  Dr. Cantrell
Instructional Strategies for Content Area Reading  3 credits
The course is designed to introduce students to procedures to teach functional reading skills 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
(Prerequisites: EDUC 280, EDUC 313) 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. Secondary section offered in the fall; elementary section in the spring.

EDUC. 400  Dr. 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. 445  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, 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.

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. Students must provide their own transportation on internships. In order to graduate, Health Administration majors must have 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, and hospital administration, health planning, public administration, and long-term care administration (see long-term care administration concentration).

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* Students will take COMM. 100 and ENGL. 107 unless exempted by the University.

# 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.
HEALTH ADMINISTRATION
Concentration in Long-Term Care Administration

Students seeking a career in long-term care administration can select a sequence of courses in Health Administration, Business, and Gerontology, including a 1040 clock hour HADM internship and upon successful completion of the curriculum, students will have met the educational requirements of the Pennsylvania State Board of Licensure for Nursing Home Administrators necessary to take the state licensure examination for long-term care administrator. The Health Administration curriculum forms the infrastructure for the LTCA concentration. It includes 40 credits of HADM courses, continues the 21-credit business minor and features 12 credits of Gerontology courses. The HADM/LTCA increases the credits for the health administration degree from 131 for the regular HADM major to 134. Students may also earn a second minor, in Gerontology, by taking Soc. 110 and Gero. 230.

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<tr>
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<th>Descriptive Title of Course</th>
<th>Credits</th>
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<td>MAJOR</td>
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<td>Gero. 110-216</td>
<td>Intro. to Gerontology-Aging and Community</td>
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<td>Computing for Business and Social Science</td>
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<td>Engl. 107*-Comm. 100*</td>
<td>Written Communication*-Oral Communication*</td>
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<td>Financial Accounting-Managerial Accounting</td>
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<td>Prin. of Management I-II</td>
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</tbody>
</table>

* Students will take COMM. 100 and ENGL. 107 unless exempted by the University.
# Recommended courses; Students may take Soc. 110 and Gero. 230 to complete a Gerontology minor.

MINOR. There is no minor in Long-Term Care Administration

HADM 480
Staff
Internship in Long-Term Care Administration
3 credits
(Prerequisite: approval of HADM director) The internship is a significant educational capstone experience that involves a supervised practical experience in a licensed long-term care facility. 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 520 hours in the field placement and 15 hours of on-campus seminars. Students must accumulate 1040 hours of internship experience by taking HADM 480 in both the fall and spring semesters of their senior year. Students must provide their own transportation. Graded S or U.

184
### HEALTH ADMINISTRATION

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<td>HADM 112</td>
<td>Health Systems</td>
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<td>Supervising Health Personnel</td>
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<td>HADM 284</td>
<td>Special Topics</td>
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<td>Research in Health Administration</td>
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<td>Resource Development</td>
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<td>HADM 314</td>
<td>Health Care Policies</td>
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<td>HADM 315</td>
<td>Cultural Diversity and Health Administration</td>
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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 permanent transcript, 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 C-, 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 license. The University of Scranton’s Nursing program is accredited by the National League for Nursing.

NURS. 100 Family Health 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 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 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.)
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<td>Research in Nursing</td>
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* Departmental Recommendation

**NURSING Perspectives in Professional Nursing**
(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.

**NURSING Related to the Assessment of Health Patterns**
(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.

**NURSING, 260** Dr. Muscari, Staff
Physical Assessment Related to Health Patterns
(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 caregiver. 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.

**NURSING, 261** Dr. Harrington, Staff
Nursing Related to Health Patterns
(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

Health Care
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 nurse’s 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, Staff  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-relationships health patterns are explored and related to specific alterations in clients’ health status. 3 hours lecture.

NURS. 360  Staff  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  Staff  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  Dr. Zalon, Staff  Nursing the Individual  8 credits
(Prerequisite: Nursing 261; Corequisites: Nursing 340 and Nursing 360) Focus on the professional nurse’s role as caregiver, 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  Prof. DiMattio, Drs. Farrell, Nursing the Individual/Family  8 credits
(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, Narsavage, 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  Staff  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, Nursing the Individual/ Family/Community  8 credits
(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-perceptual, 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 lecture and 15 hours laboratory.
NURS. 481  Prof. Fuller  
Community Nursing  6 credits  
Registered Nurse Students Only. (Prerequisite: Senior Status in the University and Nursing Program) Focus on the professional nurse’s role as caregiver, advocate, and teacher in promoting and restoring adaptive responses in 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. 3 hours lecture and 9 hours laboratory.

NURS. 482  Drs. Hudacek, Desmond, Staff  
Synthesis of Nursing Concepts  9 credits  
(Prerequisite: Nursing 480 or Nursing 481) Focus on the professional nurse’s 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. 483  Drs. Hudacek, Desmond  
Synthesis of Nursing Concepts Related to Leadership Management Roles  6 credits  
Registered Nurse Students Only. (Prerequisite: Nursing 481) Focus on the professional nurse’s role as leader/manager in promoting, restoring and maintaining adaptive responses in individuals, families, communities and groups in collaboration with nursing and interdisciplinary health teams. 3 hours lecture and 9 hours laboratory.

NURS. 484  Dr. Carpenter  
Independent Study in Nursing  3 credits  
Registered Nurse Students Only. (Prerequisite: Senior Status in the nursing program AND Nursing 493) An independent project of academic or professional nature in an area specific to professional nursing. Students develop and complete a specific project and work on a one-to-one basis with a faculty member in the department of nursing.

NURS. 493  Drs. Bailey, Carpenter, Staff  
Research in Nursing  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 on a space available basis, and will need to complete the full course of study. Observation and/or volunteer experience in Occupational Therapy settings is required and must be documented.

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 II Internship 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 II experiences.

The normal length of time for completion of the program is four and one-half years.

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  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

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* OT Level I Clinical I, II, III are each a minimum of two weeks, full time.
** OT Level II Internship I, II 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 consideration of student needs and circumstances.

**OT 356 Functional Neuroanatomy**

Dr. Kasar

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 OT practice. Prerequisites: PT 256, OT 275. Three hours lecture/week.

**OT 360 Occupational Therapy Practice I: Pediatrics**

Staff

An 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 Occupational Therapy Practice II: Psychosocial Rehabilitation

An 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 lab/week.

OT 380 Occupational Therapy Level I Clinical – I: Pediatrics

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 440 Management and Supervision of Occupational Therapy Services

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 Hand Rehabilitation

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 Occupational Therapy Practice III: Physical Rehabilitation

An 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 Occupational Therapy Practice IV: Geriatrics

An 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 lab/week.

OT 475 Advanced Therapeutic Techniques

Staff

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 lab/week.

OT 480 Occupational Therapy Level I Clinical – III: Physical Rehabilitation

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 347, OT 361, OT 380. Summer, two weeks, full-time.

OT 481 OT Level II Internship – I: Psychosocial Rehabilitation

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 OT Level II Internship – II: Physical Rehabilitation

Full-time, supervised, level II clinical experience in the area of physical 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 483 OT Level II Internship – III: Speciality

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 Research Methods in Occupational Therapy

Staff

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 and 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 select 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 diving. Four credits are needed for graduation.

COACHING MINOR

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.

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<tr>
<th>Dept. and No.</th>
<th>Descriptive Title of Course</th>
<th>Credits</th>
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<tr>
<td>PHED 160</td>
<td>Introduction to Coaching</td>
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<tr>
<td>PHED 210</td>
<td>Sport Physiology</td>
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<td>PHED 202</td>
<td>Sport Administration</td>
<td>3</td>
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<tr>
<td>PHED 203</td>
<td>Prevention and Care of Sports Injuries</td>
<td>3</td>
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<tr>
<td>PHED 284</td>
<td>Sport Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PHED 205</td>
<td>Teaching Sport Skills</td>
<td>3</td>
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</tbody>
</table>

TOTAL: 16

PHED 160
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. (GE PHED)

PHED 210
Sports Physiology
3 credits
Students will learn how to design effective, individualized training programs by incorporating training basics such as overload, specificity, adaptation, and progression. Will include individual differences among athletes, muscular fitness, energy fitness, and performance factors. (GE AREA I)

PHED 202
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.

PHED 203
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
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. (GE AREA II)

PHED 205
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). (GE AREA II)
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 one’s 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. In addition, students must do ten hours of community service per semester when registered as a Physical Therapy major.

Advancement to professional studies (JR.YR.) is automatic for pre-professional students (FR.-SOPH. 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 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 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 AP credit 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.
# PHYSICAL THERAPY

<table>
<thead>
<tr>
<th>Dept. and No.</th>
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<tr>
<td>Freshman</td>
<td>General and Analytical Chemistry I-II</td>
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<td>Cognate</td>
<td>Structure - Function Human Body</td>
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<td>Math 103-114</td>
<td>Pre-Calculus-Calculus</td>
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<td>Composition-Public Speaking</td>
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<td>Ge Area IV</td>
<td>Electives *</td>
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<td>Ge Area V</td>
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<td>Ge Area V</td>
<td>Theology I-II</td>
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<td>Clinical Education Seminar I</td>
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<td>Basic Tech. in PT Mgt.</td>
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<td>MAJOR</td>
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<td>Introduction to Gerontology</td>
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<td>MAJOR</td>
<td>Pediatric Development</td>
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<td>MAJOR</td>
<td>PT Approaches to Neurological Pop.</td>
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<td>Psychosocial Aspects of Physical Disab.</td>
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<td>MAJOR</td>
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<td>MAJOR</td>
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<td>MAJOR</td>
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<tr>
<td>MAJOR</td>
<td>Research Design</td>
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<td>Ge area II</td>
<td>Psychological Statistics</td>
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<tr>
<td>Summer</td>
<td>PT Internship—I 2 crds. (5 wks. 40 hrs -week)</td>
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<td>MAJOR</td>
<td>PT Internship II—3 crds. (6 wks. 40 hrs-week)</td>
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<td>Graduate</td>
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<td>MAJOR</td>
<td>Correlative Rehabilitation</td>
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<tr>
<td>MAJOR</td>
<td>Motor Control/Motor Learning</td>
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<tr>
<td>MAJOR</td>
<td>PT Internship III (16 weeks)</td>
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<td>MAJOR</td>
<td>Advanced Skills Development (optional)</td>
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<td>MAJOR</td>
<td>Special Topics in Health Care</td>
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<td>MAJOR</td>
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<tr>
<td>MAJOR</td>
<td>Applied Research</td>
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</table>

**TOTAL: 180-182½ credits**

* Students are encouraged to take at least 6 credits of the 12 required in one humanities department.
Human Anatomy for Physical Therapy

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. 240
Prof. Zichettella
Introduction to Physical Therapy

An 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 lab/week.

PT. 245
Drs. Mattingly, Kosmahl
Principles of Human Anatomy

A basic introduction to human gross anatomy emphasizing morphological concepts of the skeletal, muscular, circulatory, and nervous systems. Emphasis on the relationship of these systems to normal human movement, as well as to the mechanical system of the body. Two hours lecture, 2 hours lab/week.

PT. 246
Dr. Mattingly
Concepts in Pathology

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. 250
Prof. Wagner
Clinical Education Seminar I

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. 256
Dr. Mattingly
Human Anatomy for Occupational Therapy

A regional in-depth study of human anatomy with major emphasis on functional anatomy. This will be accomplished through the study of prospected human specimens and surface anatomy. Occupational Therapy majors only. Three hours lecture, 2 hours lab/week.

PT. 342
Dr. Barnes
Management of the Elderly

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 lecture/week.

PT. 345
Dr. Mattingly
Advanced Human Anatomy for Physical Therapy

An in-depth study of gross human anatomy emphasizing a regional approach to the joint arthrokinematics and the mechanics of muscle action is also presented. Human dissections are included. Two hours lecture, 4 hours lab/week.

PT. 346
Dr. Mattingly
Introduction to Therapeutic Exercise

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, disease, immobilization, deconditioning, 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. 347
Dr. Kosmahl
Orthopaedic Physical Therapy I

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 lab/week.

PT. 348
Dr. Sorg
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  Applied Physiology  3 credits  Prof. Sanko  
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  Kinesiology and Pathokinesiology  3 credits  Drs. Kosmahl, Sorg  
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  Therapeutic Modalities  3 credits  Prof. Sanko  
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  Teaching in Physical Therapy  2 credits  Dr. Barnes  
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. 390  Clinical Education Seminar II  1 credit  Prof. Wagner  
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  Organization & Management in Physical Therapy  3 credits  Dr. Barnes  
Introduction to the management process with specific information devoted to inter- and intra-departmental 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  Basic and Applied Neuroscience  4 credits  Dr. Sorg  
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  Orthopaedic Physical Therapy II  3 credits  Drs. Kosmahl, Sorg  
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  Prof. Zichettella, Staff  
This course is a comprehensive look at motor development from the pre-natal period through 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  Approaches to Neurological Populations  4 credits  Prof. Zichettella, Dr. Sorg  
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 control/motor 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  Clinical Sciences II  3 credits  Prof. Zichettella, Staff  
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 Physical Disabilities
Prof. Wagner
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 Cardiopulmonary Physical Therapy
Prof. Sanko
3 credits
Principles of cardiopulmonary disease prevention, treatment and rehabilitation including risk factor analysis, exercise prescription 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 Internship I
Prof. Wagner
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. 482 / 582 Advanced Skills Development
Dr. Barnes
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. Pass/fail course. Optional.

PT. 490 Clinical Education Seminar III
Prof. Wagner
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 be 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 Research Design
Prof. Sanko
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 Correlative Rehabilitation
Staff
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/week.

PT. 556 Motor Control/Motor Learning
Prof. Zichettella, Staff
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 Internship II
Prof. Wagner
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, outpatient, sports, industrial medicine, orthopedic or private practice setting. An inservice or case presentation will be required during the internship.

PT. 581 Internship III
Prof. Wagner
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, outpatient, 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 Special Topics in Health Care
Dr. Barnes
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 Clinical Education Seminar IV
Prof. Wagner
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 will 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 Applied Research
Prof. Sanko
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 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:

a. Adults who wish to pursue an undergraduate degree in evening hours.
b. Adults who wish to pursue an undergraduate degree on a part-time basis.
c. All students who want to obtain an associate degree or certificate.
d. All students who want to improve their professional competence and/or to prepare themselves for new careers.
e. 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

<table>
<thead>
<tr>
<th>BACHELOR'S DEGREE</th>
<th>ASSOCIATE DEGREE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accounting</td>
<td>History</td>
</tr>
<tr>
<td>Communication</td>
<td>Human Services</td>
</tr>
<tr>
<td>Computer Information Systems</td>
<td>International Business *</td>
</tr>
<tr>
<td>Criminal Justice</td>
<td>Liberal Studies</td>
</tr>
<tr>
<td>Economics</td>
<td>Management</td>
</tr>
<tr>
<td>Education / Elementary *</td>
<td>Marketing</td>
</tr>
<tr>
<td>Finance</td>
<td>Operations Management</td>
</tr>
<tr>
<td>Gerontology *</td>
<td>Political Science *</td>
</tr>
<tr>
<td>Health Administration</td>
<td>Sociology *</td>
</tr>
</tbody>
</table>

* 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 applicant’s 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).

200
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.
2. 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.

Readmission

Once accepted to Dexter Hanley College, a student must maintain continuous enrollment. The dean may approve requests for one, and, on occasion, two-semester leaves of absence. Students who do not attend the University within a year may be required to complete a full application for readmission.

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 211 - 214.)

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 of Dismissed Students
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 234).
**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:

<table>
<thead>
<tr>
<th>Degree Program</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accounting</td>
<td>148</td>
</tr>
<tr>
<td>Communication</td>
<td>66</td>
</tr>
<tr>
<td>Computer Information Systems</td>
<td>72</td>
</tr>
<tr>
<td>Criminal Justice</td>
<td>75</td>
</tr>
<tr>
<td>Economics</td>
<td>78</td>
</tr>
<tr>
<td>(SOM program)</td>
<td>152</td>
</tr>
<tr>
<td>Education, Elementary</td>
<td>170</td>
</tr>
<tr>
<td>Education, Secondary pg. 171-180</td>
<td></td>
</tr>
<tr>
<td>Finance</td>
<td>155</td>
</tr>
<tr>
<td>Gerontology</td>
<td>135</td>
</tr>
<tr>
<td>Health Administration</td>
<td>183</td>
</tr>
<tr>
<td>History</td>
<td>104</td>
</tr>
<tr>
<td>Human Services</td>
<td>166</td>
</tr>
<tr>
<td>International Business</td>
<td>157</td>
</tr>
<tr>
<td>Management</td>
<td>158</td>
</tr>
<tr>
<td>Marketing</td>
<td>161</td>
</tr>
<tr>
<td>Nursing</td>
<td>187</td>
</tr>
<tr>
<td>Political Science</td>
<td>124</td>
</tr>
<tr>
<td>Production and Operations</td>
<td></td>
</tr>
<tr>
<td>Management</td>
<td>163</td>
</tr>
<tr>
<td>Sociology</td>
<td>134</td>
</tr>
</tbody>
</table>

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**

**DR. DONA RINALDI CARPENTER, 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 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 in each regular semester.

2. 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 by verifying current employment or graduation through original R.N. program less than 10 years prior to acceptance.

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**

<table>
<thead>
<tr>
<th>Dept. and No.</th>
<th>Descriptive Title of Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRESHMAN</td>
<td></td>
<td></td>
</tr>
<tr>
<td>COGNATE</td>
<td>Chem. 110-111 Introduction to Chemistry I-II *</td>
<td>8</td>
</tr>
<tr>
<td>COGNATE</td>
<td>Bio. 110-111 Structure &amp; Function of Human Body I-II * *</td>
<td>8</td>
</tr>
<tr>
<td>GE AREA II</td>
<td>Psych 110 Fundamentals of Psychology * * *</td>
<td>3</td>
</tr>
<tr>
<td>GE AREA IV</td>
<td>Humanities Electives</td>
<td>9</td>
</tr>
<tr>
<td>GE AREA V</td>
<td>Phil. 120 Introduction to Philosophy</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>T/RS 121 Theology I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>34</td>
</tr>
<tr>
<td>SOPHOMORE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MAJOR</td>
<td>Nursing 241 Perspectives in Professional Nursing</td>
<td>3</td>
</tr>
<tr>
<td>MAJOR</td>
<td>Nursing 242 Nursing Related to Assessment of Health Patterns</td>
<td>3</td>
</tr>
<tr>
<td>COGNATE</td>
<td>Bio. 210 Intro to Medical Microbiology</td>
<td>3</td>
</tr>
<tr>
<td>COGNATE</td>
<td>Math 204 Special Topics of Statistics</td>
<td>3</td>
</tr>
<tr>
<td>GE AREA II</td>
<td>Psych 221-224 Childhood Adolescence <em><strong>-Personality</strong></em></td>
<td>6</td>
</tr>
<tr>
<td>GE AREA III</td>
<td>English 107 Composition</td>
<td>3</td>
</tr>
<tr>
<td>GE AREA III</td>
<td>Comm. 100 Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>GE AREA IV</td>
<td>Humanities Elective</td>
<td>3</td>
</tr>
<tr>
<td>GE AREA V</td>
<td>Phil. 210-212 Ethics - Medical Ethics * *</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td></td>
<td>33</td>
</tr>
<tr>
<td>JUNIOR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE AREA IV</td>
<td>Humanities Electives</td>
<td>6</td>
</tr>
<tr>
<td>GE AREA V</td>
<td>T/RS 122 Theology II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Nursing Validation Credits</td>
<td>33</td>
</tr>
<tr>
<td></td>
<td></td>
<td>42</td>
</tr>
<tr>
<td>SENIOR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MAJOR</td>
<td>Nursing 481 Community Nursing</td>
<td>6</td>
</tr>
<tr>
<td>MAJOR</td>
<td>Nursing 493 Research in Nursing</td>
<td>3</td>
</tr>
<tr>
<td>MAJOR</td>
<td>Nursing 483 Synthesis of Nursing Concepts Related to Leadership Management Roles</td>
<td>6</td>
</tr>
<tr>
<td>MAJOR</td>
<td>Nursing 484 Independent Study</td>
<td>3</td>
</tr>
<tr>
<td>GE AREA V</td>
<td>T/RS - Phil. Elective</td>
<td>3</td>
</tr>
<tr>
<td>GE FREE</td>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>24</td>
</tr>
</tbody>
</table>

* Chem. 111 and transfer credits may replace Chem. 110 and 111 upon recommendation of the R.N. program advisor.

** Bio. 112 (2 cr.) and transfer credits may replace these courses upon recommendation of R.N. program advisor.

* * * Department recommendation.
LIBERAL STUDIES

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 215). 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

<table>
<thead>
<tr>
<th>General Education</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area I Natural Sciences/Mathematics</td>
<td>9</td>
</tr>
<tr>
<td>Area II Social/Behavioral Sciences</td>
<td>9</td>
</tr>
<tr>
<td>Area III Communication *</td>
<td>9</td>
</tr>
<tr>
<td>Area IV Humanities</td>
<td>18</td>
</tr>
<tr>
<td>(English &amp; Foreign Literature, Art, Music, History)</td>
<td></td>
</tr>
<tr>
<td>Area V Philosophy/Theology</td>
<td>18</td>
</tr>
<tr>
<td>(Phil. 120 &amp; 210—T/RS 121 &amp; 122</td>
<td></td>
</tr>
<tr>
<td>2 other Philosophy or T/RS electives)</td>
<td></td>
</tr>
<tr>
<td>Free Area Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

Areas of Concentration:

(A) ............................................................... 57
(B) ...............................................................  
(C) ...............................................................  
(D) ...............................................................  

TOTAL: 123 credits

* 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.

Degree Requirements for Associate in Arts

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, social/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:

<table>
<thead>
<tr>
<th>Credits Required by Area of Study</th>
<th>Area I</th>
<th>Area II</th>
<th>Area III</th>
<th>Area IV</th>
<th>Area V</th>
<th>Free Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>Natural Sciences/Mathematics</td>
<td>9</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Social/Behavioral Sciences</td>
<td>9</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Communication: Comm. 100 — Public Speaking</td>
<td>3</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>ENGL 107 — Composition</td>
<td>3</td>
<td></td>
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</tr>
<tr>
<td>Elective</td>
<td>3</td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Art, History, Literature, Music, Theatre</td>
<td>18</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Phil. 120 — Introduction to Philosophy</td>
<td>3</td>
<td></td>
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<td></td>
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<td></td>
</tr>
<tr>
<td>T/RS 121 — Theology I</td>
<td>3</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Phil 210-Ethics or T/RS 122-Theology II</td>
<td>3</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Electives</td>
<td>6</td>
<td></td>
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<tr>
<td>TOTAL: 60</td>
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</tr>
</tbody>
</table>

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:

<table>
<thead>
<tr>
<th>Business</th>
<th>Health Administration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computer Information Systems</td>
<td>Human Services</td>
</tr>
<tr>
<td>Criminal Justice</td>
<td>Political Science</td>
</tr>
<tr>
<td>Electronics Engineering</td>
<td>Public Administration</td>
</tr>
<tr>
<td>Gerontology</td>
<td>Sociology</td>
</tr>
</tbody>
</table>

BUSINESS

General Education

<table>
<thead>
<tr>
<th>Area I</th>
<th>Area II</th>
<th>Area III</th>
<th>Area IV</th>
<th>Area V</th>
<th>Major/Cognates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dept. and No.</td>
<td>Dept. and No.</td>
<td>Dept. and No.</td>
<td>Dept. and No.</td>
<td>Dept. and No.</td>
<td>Dept. and No.</td>
</tr>
<tr>
<td>Math 106, 107</td>
<td>Eco. 153, 154</td>
<td>ENGL 107</td>
<td>Social/B.</td>
<td>Humanities</td>
<td>Mgt. 161</td>
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</tr>
<tr>
<td>Social/Behav. Sci.</td>
<td>Comm. 100</td>
<td>CMP 104</td>
<td>Electives</td>
<td>Phil. 120 - T/RS 121</td>
<td>Acc. 253, 254</td>
</tr>
<tr>
<td>Elective</td>
<td>Public Speaking</td>
<td>Computing for Business &amp; Social Sciences</td>
<td>Electives</td>
<td>Introduction to Philosophy - Theology I</td>
<td>Financial/Managerial Accounting</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
<td>3</td>
<td>9</td>
<td>6</td>
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</tr>
<tr>
<td>Area V</td>
<td>T/RS 121</td>
<td>Phil. 210 or T/RS 122</td>
<td>Electives</td>
<td>Ethics or Theology II</td>
<td>Stat. 251, 252</td>
</tr>
<tr>
<td>Phil. 210 or T/RS 122</td>
<td>Ethics or Theology II</td>
<td>Electives</td>
<td>Electives</td>
<td>Ethics or Theology II</td>
<td>Statistics for Business, I, II</td>
</tr>
<tr>
<td>6</td>
<td>3</td>
<td>6</td>
<td>6</td>
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<td>Major/Cognates</td>
<td>Major/Cognates</td>
<td>Major/Cognates</td>
<td>Major/Cognates</td>
<td>Major/Cognates</td>
<td>Major/Cognates</td>
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<tr>
<td>Mgt. 161</td>
<td>Acc. 253, 254</td>
<td>Stat. 251, 252</td>
<td>Mgt. 251</td>
<td>Legal Environment of Business</td>
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</tr>
<tr>
<td>Introduction to Business</td>
<td>Financial/Managerial Accounting</td>
<td>Statistics for Business, I, II</td>
<td>Legal Environment of Business</td>
<td></td>
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<tr>
<td>3</td>
<td>6</td>
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<td>3</td>
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<tr>
<td>TOTAL: 60 credits</td>
<td>TOTAL: 60 credits</td>
<td>TOTAL: 60 credits</td>
<td>TOTAL: 60 credits</td>
<td>TOTAL: 60 credits</td>
<td>TOTAL: 60 credits</td>
</tr>
</tbody>
</table>

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.
## COMPUTER INFORMATION SYSTEMS

### General Education

<table>
<thead>
<tr>
<th>Dept. and No.</th>
<th>Description of Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area I</td>
<td>Math 142, 114 Discrete Structures, Analysis I*</td>
<td>8</td>
</tr>
<tr>
<td>Area II</td>
<td>Eco. 153-154, Pol. Sci. 110-111 Intro. to Public Administration* <em>, Public Policy</em> *</td>
<td>6</td>
</tr>
<tr>
<td>Area III</td>
<td>ENGL 107 Composition</td>
<td>3</td>
</tr>
<tr>
<td>Area IV</td>
<td>Humanities Electives</td>
<td>9</td>
</tr>
<tr>
<td>Area V</td>
<td>Phil. 120 or T/RS 122 Ethics or Theology II</td>
<td>3</td>
</tr>
<tr>
<td>Free Area</td>
<td>Elective Elective*</td>
<td>3/4</td>
</tr>
</tbody>
</table>

**Total:** 64/65 credits

* Math 103-if needed preliminary to taking Math 114 (4 cr.)

**Recommended for associate degree; required for bachelor’s degree.

### Major /Cognates

<table>
<thead>
<tr>
<th>Dept. and No.</th>
<th>Description of Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMPS 134, 144</td>
<td>Computer Science I, II</td>
<td>7</td>
</tr>
<tr>
<td>CMPS 240</td>
<td>Data Structures</td>
<td>3</td>
</tr>
<tr>
<td>CMPS 250</td>
<td>Machine Organization &amp; Assembly Programming</td>
<td>3</td>
</tr>
<tr>
<td>CMPS 330</td>
<td>Information Systems Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CMPS 340</td>
<td>File Processing</td>
<td>4</td>
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</tbody>
</table>

**Total:** 20 credits

---

## CRIMINAL JUSTICE

### General Education

<table>
<thead>
<tr>
<th>Dept. and No.</th>
<th>Description of Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Area I</td>
<td>Nurs. 100 * Family Health</td>
<td>3</td>
</tr>
<tr>
<td>Area II</td>
<td>Soc. 110, Psych. 110, Soc. 224 * American Minority Groups</td>
<td>3</td>
</tr>
<tr>
<td>Area III</td>
<td>Comm. 100 Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>Area IV</td>
<td>Humanities Electives</td>
<td>9</td>
</tr>
<tr>
<td>Area V</td>
<td>T/RS 121 - Theology I - Intro. to Philosophy</td>
<td>6</td>
</tr>
<tr>
<td>Free Area</td>
<td>Elective Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total:** 60 credits

* Recommended courses

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* Recommended courses
ELECTRONICS ENGINEERING

General Education

<table>
<thead>
<tr>
<th>Area</th>
<th>Dept. and No.</th>
<th>Description of Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>Math 103, * 114</td>
<td>Pre-Calculus, Analysis I</td>
<td>8</td>
</tr>
<tr>
<td>II</td>
<td>Soc./Behav. Sci.</td>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td>III</td>
<td>ENGL 107</td>
<td>Composition</td>
<td>3</td>
</tr>
<tr>
<td>IV</td>
<td>Comm. 100</td>
<td>Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>V</td>
<td>Humanities</td>
<td>Electives</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Phil. 120 - T/RS 121</td>
<td>Intro. to Philosophy - Theology I</td>
<td>6</td>
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</table>

Total: 29 credits

Major/Cognates

<table>
<thead>
<tr>
<th>Dept. and No.</th>
<th>Description of Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Phys. 140, 141</td>
<td>Elements of Physics (&amp; labs)</td>
<td>8</td>
</tr>
<tr>
<td>Phys. 270</td>
<td>Elements of Modern Physics</td>
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<tr>
<td>Math 221, 222</td>
<td>Analysis II, III</td>
<td>8</td>
</tr>
<tr>
<td>CMPS 134</td>
<td>Computer Science I</td>
<td>3</td>
</tr>
<tr>
<td>Engr. 252</td>
<td>Solid State Materials Science</td>
<td>3</td>
</tr>
<tr>
<td>Engr. 253-4</td>
<td>Introduction to Computer Aided Design-3D Design</td>
<td>2</td>
</tr>
<tr>
<td>EE. 241</td>
<td>Circuit Analysis (&amp; lab)</td>
<td>4</td>
</tr>
<tr>
<td>EE. 240</td>
<td>Digital Circuits</td>
<td>3</td>
</tr>
<tr>
<td>EE. 343</td>
<td>Electronic Circuits I</td>
<td>3</td>
</tr>
<tr>
<td>EE. 243L</td>
<td>Digital System Design Lab</td>
<td>2</td>
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</table>

Total: 40 credits

* Math 103, required in the Associate Degree program, is not required for a bachelor’s degree in Electronics Engineering unless so determined by math placement testing. Math 005 may also be required, as determined by math placement testing.

GERONTOLOGY

General Education

<table>
<thead>
<tr>
<th>Area</th>
<th>Dept. and No.</th>
<th>Description of Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>I</td>
<td>Biol. 101 - 102</td>
<td>General Biological Science</td>
<td>6</td>
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<tr>
<td>II</td>
<td>Soc. 110</td>
<td>Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Psych. 110</td>
<td>Fundamentals of Psychology</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Psych. 222</td>
<td>Adulthood &amp; Aging</td>
<td>3</td>
</tr>
<tr>
<td>Area III</td>
<td>HADM 112</td>
<td>Health Systems</td>
<td>3</td>
</tr>
<tr>
<td>Area IV</td>
<td>Comm. 100</td>
<td>Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>Area V</td>
<td>ENGL 107</td>
<td>Composition</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Humanities</td>
<td>Electives</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>T/RS 121 - Phil 120</td>
<td>Theology I - Intro to Philosophy</td>
<td>6</td>
</tr>
<tr>
<td>Free Area</td>
<td>T/RS 122 or Phil. 210</td>
<td>Theology II or Ethics</td>
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<tr>
<td></td>
<td>Elective</td>
<td>Elective</td>
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Total: 60 credits

Major/Cognate

<table>
<thead>
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<th>Description of Course</th>
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<tbody>
<tr>
<td>Gero. 110</td>
<td>Introduction to Gerontology</td>
<td>3</td>
</tr>
<tr>
<td>Gero. 230</td>
<td>Social Policy and Aging</td>
<td>3</td>
</tr>
<tr>
<td>Gero. 232</td>
<td>Aging and Death</td>
<td>3</td>
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<tr>
<td>Major</td>
<td>Electives</td>
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</tr>
</tbody>
</table>

Total: 60 credits

* Recommended Courses
# HEALTH ADMINISTRATION

## General Education

<table>
<thead>
<tr>
<th>Dept. and No.</th>
<th>Description of Course</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>Area I</td>
<td>Acc. 253 * - 254 *</td>
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</tr>
<tr>
<td>Area III</td>
<td>ENGL 107</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Comm. 100</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CMPS 104</td>
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<tr>
<td>Area IV</td>
<td>Humanities</td>
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<tr>
<td>Area V</td>
<td>T/RS 121 - Phil. 120</td>
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<td></td>
<td>T/RS 122 or Phil. 210</td>
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<tr>
<td>Free Area</td>
<td>Electives</td>
<td></td>
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</tbody>
</table>

## Area I
- Acc. 253 * - 254 * Financial/Managerial Accounting 6
- ENGL 107 Composition 3
- Comm. 100 Public Speaking 3
- CMPS 104 Computing for Business & Social Sciences 3
- Humanities Electives 9
- T/RS 121 - Phil. 120 Theology I - Intro. to Philosophy 6
- T/RS 122 or Phil. 210 Theology II or Ethics 3
- Electives 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
- Elective 3
- Electives 6

**TOTAL: 60 credits**

* Recommended courses

Students must complete a minimum of 40 hours of community service in addition to completing courses specified, to earn the associate degree in health administration. (These hours will apply to the 80 hours required for a bachelor’s degree if students continue in the bachelor’s program.)

**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

<table>
<thead>
<tr>
<th>Dept. and No.</th>
<th>Description of Course</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>Area I</td>
<td>Electives</td>
<td></td>
</tr>
<tr>
<td>Area III</td>
<td>ENGL 107</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Comm. 100</td>
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<td>CMPS 104</td>
<td></td>
</tr>
<tr>
<td>Area IV</td>
<td>Humanities</td>
<td></td>
</tr>
<tr>
<td>Area V</td>
<td>T/RS 121 - Phil. 120</td>
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<td></td>
<td>T/RS 122 or Phil. 210</td>
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<tr>
<td>Free Area</td>
<td>Electives</td>
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</tr>
</tbody>
</table>

## Area I
- Electives 6
- ENGL 107 Composition 3
- Comm. 100 Public Speaking 3
- CMPS 104 Computing for Business & Social Sciences 3
- Humanities Electives 9
- T/RS 121 - Phil. 120 Theology I - Intro. to Philosophy 6
- T/RS 122 or Phil. 210 Theology II or Ethics 3
- Electives 6

## Major/Cognate
- HS 111 Introduction to Human Adjustment 3
- HS 112 Human Service Systems 3
- HS 241 Case Management & Interviewing 3
- HS 242 Counseling Theories 3
- Elective 3

**TOTAL: 60 credits**

Students must complete a minimum of 40 hours of community service in addition to completing courses specified, to earn the associate degree in human services. (These hours will apply to the 80 hours required for a bachelor’s degree if students continue in the bachelor’s program.)

**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/religion 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

<table>
<thead>
<tr>
<th>Area I</th>
<th>Natural Science (Biology; Chemistry; Mathematics; Physics)</th>
<th>6</th>
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</thead>
<tbody>
<tr>
<td>Area II</td>
<td>Social/Behavior (Business; Economics; Human Services; Psychology; Criminal Justice; Pol/Sci.; Sociology)</td>
<td>9</td>
</tr>
<tr>
<td>Area III</td>
<td>Communication (ENGL 107 and COMM 100, plus one elective)</td>
<td>9</td>
</tr>
<tr>
<td>Area IV</td>
<td>Humanities (Fine Arts; History; Literature)</td>
<td>9</td>
</tr>
<tr>
<td>Area V</td>
<td>Philosophy &amp; T/RS (PHIL 120 and T/RS 121; Phil. 210 or T/RS 122)</td>
<td>9</td>
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<tr>
<td>Free Area</td>
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</tr>
<tr>
<td>Major</td>
<td>Electives</td>
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</tbody>
</table>

**TOTAL: 60 credits**

SOCIOCY

General Education

<table>
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<th>Description of Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Area I Nurs. 100 *</td>
<td>Family Health</td>
<td>3</td>
</tr>
<tr>
<td>Nat. Sci./Math</td>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td>Area II Psych. 110</td>
<td>Elective Fundamentals of Psychology</td>
<td>6</td>
</tr>
<tr>
<td>HS 241 * or</td>
<td>Case Management &amp; Interviewing</td>
<td>3</td>
</tr>
<tr>
<td>HS 112 *</td>
<td>Human Service Systems</td>
<td>3</td>
</tr>
<tr>
<td>Area III Comm. 100</td>
<td>Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 107</td>
<td>Composition</td>
<td>3</td>
</tr>
<tr>
<td>CMPS 104 *</td>
<td>Computing for Business &amp; Social Sciences</td>
<td>3</td>
</tr>
<tr>
<td>Area IV Humanities</td>
<td>Electives</td>
<td>9</td>
</tr>
<tr>
<td>Area V T/RS 121 - Phil. 120</td>
<td>Theology I - Intro. to Philosophy</td>
<td>6</td>
</tr>
<tr>
<td>T/RS 122 or Phil. 210</td>
<td>Theology II or Ethics</td>
<td>3</td>
</tr>
<tr>
<td>Free Area Elective</td>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td>Major Soc. 110</td>
<td>Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>Soc. 112</td>
<td>Social Problems</td>
<td>3</td>
</tr>
<tr>
<td>Soc. 231</td>
<td>Urban Sociology</td>
<td>3</td>
</tr>
<tr>
<td>Soc. 318</td>
<td>Sociological Theory</td>
<td>3</td>
</tr>
<tr>
<td>Major</td>
<td>Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

**TOTAL: 60 credits**

* Recommended courses
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. Certificate programs are comprised of eight academic credit courses which are recorded permanently on a transcript by 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.

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 Coordinator of Admissions 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. 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. Students with life-experience in advertising, promotion, or public relations may wish to take the more advanced courses. An advisor should be consulted before doing so.

Required Courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 120</td>
<td>Mass Communication</td>
</tr>
<tr>
<td>COMM 224</td>
<td>Newswriting (or COMM 324 Advanced Newswriting)</td>
</tr>
<tr>
<td>COMM 225</td>
<td>Advertising (or COMM 325 Advanced Advertising)</td>
</tr>
<tr>
<td>COMM 226</td>
<td>Writing for Public Relations (or COMM 227 Public Relations)</td>
</tr>
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</table>

Elective Courses (select four):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>COMM 110</td>
<td>Interpersonal Communication</td>
</tr>
<tr>
<td>COMM 210</td>
<td>Logical and Rhetorical Analysis</td>
</tr>
<tr>
<td>COMM 214</td>
<td>Small Group Communication</td>
</tr>
<tr>
<td>COMM 220</td>
<td>Responsibility in Communication</td>
</tr>
<tr>
<td>COMM 227</td>
<td>Public Relations</td>
</tr>
<tr>
<td>COMM 280</td>
<td>Advanced Public Speaking</td>
</tr>
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<td>COMM 311</td>
<td>Political Communication</td>
</tr>
<tr>
<td>COMM 312</td>
<td>Organizational Communication</td>
</tr>
<tr>
<td>COMM 323</td>
<td>TV Journalism</td>
</tr>
<tr>
<td>COMM 324</td>
<td>Advanced Newswriting</td>
</tr>
<tr>
<td>COMM 325</td>
<td>Advertising Copywriting</td>
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<tr>
<td>COMM 327</td>
<td>Public Relations Cases</td>
</tr>
<tr>
<td>COMM 328</td>
<td>News Editing</td>
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<td>COMM 329</td>
<td>Graphics</td>
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<td>COMM 331</td>
<td>Mass Media Management</td>
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<tr>
<td>COMM 334</td>
<td>Broadcast Programming</td>
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<tr>
<td>COMM 380</td>
<td>Advertising Practicum</td>
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<tr>
<td>COMM 410</td>
<td>Communication Theory &amp; Research</td>
</tr>
<tr>
<td>COMM 411</td>
<td>Persuasion and Propaganda</td>
</tr>
<tr>
<td>COMM 482</td>
<td>Directed Independent Study</td>
</tr>
</tbody>
</table>

* Some daytime courses will be required.
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 in addition to completed coursework.

Required Courses:
- HS 241: Case Management and Interviewing
- HS 242: Counseling Theories
- HS 421: Addictions
- HS 422: Substance Abuse Education
  - of Substance Abuse
- HS 423: Health and Legal Aspects
- HS 424: Addictions
- HS 425: Substance Abuse Education
  - of Substance Abuse
- HS 426: Health and Legal Aspects

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.

Required Courses:
- MATH 142: Discrete Structures *
- CMPS 134: Computer Science I
- CMPS 144: Computer Science II
- CMPS 330: Information Systems Analysis
- CMPS 340: File Processing

Electives: (Select 2 courses):
- CMPS 240: Data Structures
- CMPS 331: Systems Analysis and Design
- CMPS 341: Database Systems

* Some pre-requisite courses may be required, as determined by math placement testing.
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
Required Courses:
Gero. 110: Intro. to Gerontology
Gero. 230: Social Policy & Aging
Gero. 232: Aging & Death

Electives (Select five courses):
Gero. 112: Social Problems of Aging
Gero. 212: Aging & the Life Cycle
Gero. 214: Aging & Human Behavior
Gero. 216: Aging & The Community
Gero. 218: Health & Aging*
Gero. 220: Crime & Aging

ADVANCED
Required Courses:
Gero. 110: Intro. to Gerontology
Gero. 218: Health & Aging

Electives (Select six courses):
Gero. 112: Social Problems of Aging
Gero. 210: Aging Around the World
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

* Some daytime courses may be required.
**Recommended

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: Electives (9 credits)

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
(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: Electives (9 credits)

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 24 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 DHCP 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 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, provides the student with adequate course work to meet Pennsylvania’s requirement to sit for the C.P.A. examination. However, both New York and New Jersey require additional credits in Finance (6 credits) and Business Law (3 additional credits) to sit for the exam. (One of these courses could be taken as the Free Elective in Level I.) The student should consult an advisor in the School of Management to ensure that they take the correct courses to satisfy the requirements of states other than Pennsylvania.

ACCOUNTING
(24 credits)
Acc. 251, 252: Financial Accounting I, II
Acc. 361, 362: Intermediate Accounting I, II
Acc. 363, 364: Federal Taxes—Auditing Theory
Acc. 461, 470: Cost Accounting—Law for Accountants

PERSONNEL MANAGEMENT
(24 credits)
Mgt. 351: Principles of Management I
Mgt. 352: Principles of Management II
Mgt. 361: Personnel Management
Free electives: Six credits, approved by advisor.

PRE-MBA
(24 credits)
Acc. 210: Survey of Managerial & Financial Accounting (or ACC. 253 & 254) 
Econ. 210: Essentials of Economic Theory (or Econ. 153 & 154)
Fin. 351: Introduction to Finance
Mkt. 351: Intro. to Marketing
Mgt. 251: Legal Environment of Business
Mgt. 351: Principles of Management I
OIM 210: Quantitative Methods I (or Math 106 & 107)
OIM 211: Quantitative Methods II (or QMS 251 & 351)
TELECOURSES
Telecourses meet the needs of 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 Advising 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 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).

EDUC. 101 Dr. Adams
Fundamentals of Adult Development and Experiential Learning
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.
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, LD+, 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 through the Hanley College Student Council and through Hanley College representation on the University Senate.

TUITION AND FEES 1995-96

<table>
<thead>
<tr>
<th>Service</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hanley College Tuition: (full-time)</td>
<td>$390. per credit</td>
</tr>
<tr>
<td>(part-time)</td>
<td>$326. per credit</td>
</tr>
<tr>
<td>(all Intersession '96 courses)</td>
<td>$390. per credit</td>
</tr>
<tr>
<td>University Fee for Hanley Students: (full-time)</td>
<td>$370. per semester</td>
</tr>
<tr>
<td>(part-time)</td>
<td>$35. per semester</td>
</tr>
<tr>
<td>I.D. Photo</td>
<td>$20.</td>
</tr>
<tr>
<td>Schedule Change Fee</td>
<td>$15.</td>
</tr>
<tr>
<td>Health Service Fee (full-time)</td>
<td>$65. per semester</td>
</tr>
<tr>
<td>Recreational Complex Use Fee (optional for part-time students):</td>
<td>$65. per semester</td>
</tr>
<tr>
<td>Application Fee for Hanley Students:</td>
<td>$15.</td>
</tr>
<tr>
<td>Orientation Fee for Hanley Students:</td>
<td>$20.</td>
</tr>
<tr>
<td>Prior Learning Portfolio Review Fee:</td>
<td>$30. per credit</td>
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<tr>
<td></td>
<td>plus $25. test administration fee per exam</td>
</tr>
</tbody>
</table>

The orientation fee is refunded only when a student withdraws from the University prior to orientation.

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. 234.

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 Hanley Students are eligible to apply for several forms of Federal and State financial aid. Please refer to page 235 for the descriptions of these aid programs. Eligibility for all grant, loans, and institutional aid requires the student to submit the University Application for Scholarship and Financial Aid and the Free Application for Federal Student Aid (FAFSA). The student must also submit signed copies of the tax information for the student and spouse/parent (if required). Priority deadline for Incoming Students is May 1st. Returning students must file by April 15th.

In addition to the Federal and State financial aid programs, Hanley students are eligible to apply for the following Institutional aid programs.

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 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. 210 Ethics *
- Phil. 215 Logic
- Phil. 220 History of Ancient Philosophy *
- Phil. 221 History of Medieval Philosophy *
- Phil. 220 History of Ancient Philosophy *
- Phil. 221 History of Medieval Philosophy *
- Phil. 222 Modern Philosophy *
- Phil. 230 Modern Philosophy
- Phil. 301 Epistemology *
- Phil. 310 Epistemology *
- Phil. 311 Metaphysics
- Phil. 311 Metaphysics
- Phil. 411 Philosophy of Aquinas *
- Phil. 434 Issues in Phil. & Theo.*

**Theology** (courses taught by faculty holding the St. Pius X Chair)
- T/RS 121-122 Theology I-II *
- T/RS 204 Pauline Letters (available)
- T/RS 205 Gospels and Jesus (available)
- T/RS 220 Moral Theology *
- T/RS 239 Theology for the 20th Century
- T/RS 323 Signs and Symbols *

**Communication**
- Engl. 107 Composition
- T/RS 121-122 Theology I-II *
- T/RS 204 Pauline Letters (available)
- T/RS 205 Gospels and Jesus (available)
- T/RS 220 Moral Theology *
- T/RS 239 Theology for the 20th Century
- T/RS 323 Signs and Symbols *

**Language**
- Latin 111-112 Elementary Latin *
- Greek 113-114 Biblical Greek *
- Spanish 101-102 Elementary Spanish (recommended)

**FOUR-YEAR COLLEGE PROGRAM/Required Courses (suggested sequence):**

<table>
<thead>
<tr>
<th>FALL</th>
<th>SPRING</th>
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<tbody>
<tr>
<td>FRESHMAN:</td>
<td></td>
</tr>
<tr>
<td>Phil. 120 Intro. to Philosophy</td>
<td>Phil. 210 Ethics</td>
</tr>
<tr>
<td>T/RS 121 Theology I</td>
<td>T/RS 122 Theology II</td>
</tr>
<tr>
<td>Latin 111 Elementary Latin</td>
<td>Latin 112 Elementary Latin</td>
</tr>
<tr>
<td>Engl. 107 Composition</td>
<td>Comm. 100 Public Speaking</td>
</tr>
</tbody>
</table>

| 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. 311 Metaphysics (even years) |
| Greek 113 Biblical Greek (even yrs.) | Phil. 434 Issues in Phil. & Theo. (odd yrs.) |
| Span. 101 Elementary Spanish I | T/RS 239 Theology for the 20th Century |
| | T/RS 239 Theology for the 20th Century |
| Greek 114 Biblical Greek (odd yrs.) | |
| Span. 102 Elementary Spanish II | |

**PRE-THEOLOGY PROGRAM/Required Courses (suggested sequence):**

| SECOND YEAR: | |
| Phil. 222 Modern Philosophy I | Phil. 311 Metaphysics (recommended) |
| T/RS 323 Signs & Symbols | T/RS 239 Theology for the 20th Century |

| Either FIRST or SECOND YEAR: | |
| Latin 111 Elementary (odd yrs.) | Phil. 411 Aquinas (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

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 20 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 Nursing (MSN)

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, which apply to all programs, individual programs may have special requirements such as test scores, personal interviews, or writing samples. Consult the Graduate School catalog for these special requirements.

Foreign students whose native language is not English must submit scores from the Test of English as a Foreign Language (TOEFL). Scores required on this test for admission vary by program. Consult the Graduate School catalog for minimum scores applicable to each program.

All application documents should be on hand in the Graduate Office at least one month before the intended starting term. Consult the Graduate School catalog for more stringent deadlines for the counseling and nursing programs. 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 Fall, Spring, or Summer. Nursing and Software Engineering students can only begin their studies in the Fall semester.

Graduate Assistantships
Approximately 60 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. Applications for assistantships must be submitted by March 1. 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 (within the U.S.A.)
FAX: (717) 941-4252
Outside the Classroom

Much of a student’s education 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 becomes achievement.
EXTRACURRICULAR ACTIVITIES

THEATRE

The tradition of theatre and dramatics in Jesuit colleges goes back four hundred years. The University of Scranton has played a vital part in that tradition as evidenced by the many theatre professionals who were undergraduates at the University: Pulitzer-Prize winning dramatist Jason Miller; broadway actor and director, Walter Bobbie; director Stan Woyewodski Jr., dean of the Yale School of Drama, and the list goes on.

Today, the University Players, a co-curricular activity of the Department of English, produce a four-show, mainstage season along with a festival of student written plays, and a festival devoted to new student directors. Well over 150 students participate in productions on and off stage each year. the theatre program is housed in a new state-of-the-art facility, complete with a 343-seat mainstage and a studio theatre, scene shop, costume shop, and other support spaces.

The University Players have historically been host to many a prominent guest artist. In 1984, Oscar-winning British actress Glenda Jackson conducted an acting workshop, actor Richard Harris directed a production of Julius Caesar in 1988, and Stan Woyewodski spoke at the opening of the theatre facility in 1994 and met with students.

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 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

<table>
<thead>
<tr>
<th>Club</th>
<th>Club</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology Club</td>
<td>History and Public Affairs Society</td>
</tr>
<tr>
<td>Business Club</td>
<td>Students for Life</td>
</tr>
<tr>
<td>Political Science Club</td>
<td>Psychology Club</td>
</tr>
<tr>
<td>Ski Club</td>
<td>Schrodinger Chemical Society</td>
</tr>
<tr>
<td>Pre-Law Society</td>
<td>International Students Association</td>
</tr>
<tr>
<td>Social Science Club</td>
<td>College Democrats</td>
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<tr>
<td>Physical Therapy Club</td>
<td>College Republicans</td>
</tr>
<tr>
<td>Computer Science Club</td>
<td>ROTC Rangers</td>
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<td>Communications Club</td>
<td>Bowling Club</td>
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<td>Veterans Club</td>
<td>Women’s Business Honor Society</td>
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<td>India Club</td>
<td>Nursing Association</td>
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<td>Philosophy Forum</td>
<td>University Singers</td>
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<tr>
<td>Student Education Association</td>
<td>Society for Advancement of Management</td>
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<td>Horticulture Club</td>
<td>Human Resources Association</td>
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<td>Health Administration Association</td>
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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).

<table>
<thead>
<tr>
<th>MEN’S VARSITY SPORTS</th>
<th>WOMEN’S VARSITY SPORTS</th>
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<tbody>
<tr>
<td>Basketball</td>
<td>Cross Country</td>
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<td>Baseball</td>
<td>Golf</td>
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<td>Tennis</td>
<td>Soccer</td>
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<td>Wrestling</td>
<td>Lacrosse</td>
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<td>Swimming</td>
<td>Ice Hockey</td>
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<td>Field Hockey</td>
<td>Softball</td>
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<td>Tennis</td>
<td>Cross Country</td>
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<tr>
<td>Basketball</td>
<td>Soccer</td>
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<tr>
<td>Volleyball</td>
<td>Swimming</td>
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</table>

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 16 years, 28 individual Academic All-Americans were honored and 12 NCAA Postgraduate Scholarships were issued. All-American honors were earned by individuals on 29 occasions; 10 individual conference champions were crowned; 46 teams won Middle Atlantic Conference titles, while 40 teams and 16 individuals qualified for NCAA postseason play.

Sophomore basketball star Jennifer Nish was elected to the GTE Academic All-American team this past season. Nationally ranked tennis sensation Clay Yeager was a GTE team member in spring ’94. In 1993, Matt Cusano, a senior center on the Royals basketball team was elected to the Academic All-American 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 men’s and women’s soccer and basketball teams, who perennially challenge for conference and NCAA national honors. Included in the gold and silver medal 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 men’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), Jackie Dougherty (1994), and Jennifer Nish (1995).

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: men’s basketball (1991, ’93); women’s soccer (1989, ’90, ’91, ’92, ’93); women’s softball (1990 and ’91); women’s tennis (1990, ’92, ’94); and the Lady Royals basketball team won a conference record 10th championship, and third in five seasons, in 1994. The 10-0 women’s swim team captured the 1995 MAC team title; Christine Lubrano and Erin Kenney were named Co-Most Outstanding Swimmers.

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, physical/manual 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 40 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 orientation, 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 field-declared business 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 field-declared business 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. Services are provided to students with learning disabilities in compliance with section 504 of the Rehabilitation Act.

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 resume/interview preparation and career planning. A career library containing occupational information and graduate school catalogs is also available.
The University of Scranton is a selective institution in the Jesuit tradition. It makes available to qualified students an excellent education at a reasonable cost, and it offers significant programs of financial aid.
ADMISSION
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:

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 SAT I: Reasoning Tests (College Entrance Examination Board) or the ACT Test (American College Testing) are required of all applicants. These tests should be taken during junior year and/or senior year of high school. During Summer Orientation the University administers its own placement tests. Therefore, applicants are not required to take the SAT II: Subject Tests.

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:

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<thead>
<tr>
<th>HIGH SCHOOL UNITS</th>
<th>COLLEGE PROGRAM CHOICE</th>
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<td>English</td>
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<td>History &amp; Social Science</td>
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<td>Foreign Language</td>
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<td>College Preparatory Mathematics</td>
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<td>Science</td>
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<td>Other acceptable units</td>
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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. Pre-engineering 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.

STUDENTS WITH DISABILITIES
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 13 freshman and 19 upperclass residences. Resident freshmen are normally assigned to Freshman residence halls that offer personal development and leadership opportunities under the guidance of Jesuit counselors, Residence Life 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 (television, 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, Nevis 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 any combination of 14 meals per week. 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 including Intersession. Requests for release from contractual obligations or for exceptions to room and board policies will be considered by the Director of Residence Life. Generally, in order to be released from contractual obligations, the student must prove that either financial or health conditions have changed significantly since signing the contract. Requests will be considered on a case-by-case basis. Requests must be received at least 30 days before an exception would begin. 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 232) 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.
STUDENT TELEPHONE SERVICES

Resident students are provided with basic telephone service and voice mail/messaging services as part of the basic room contract. University-provided long distance services are also available to all resident students. These discounted services include savings up to 50% over the cost of calling cards.

Students residing in off-campus housing (within one-mile aerial radius of campus) can also have access to the University’s communication services, including basic telephone service, voice mail/messaging service, and long distance service.

For more information regarding these communication services, contact the Office of Network Services, St. Thomas Hall, Room 102, or call 941-6181.

STUDENT IDENTIFICATION CARDS

All students attending the University of Scranton must have a current Royal Card (photo ID). This card must be presented upon demand for student services, registration, athletic facilities and in the library.

A Royal Card is used for meals in the dining facilities, resident hall access, photocopying in the library, and may be used in vending and laundry machines. A brochure describing the Royal Card account may be obtained at the Royal Card Office, St. Thomas Hall, Room 103 or by calling 941-6181 or 941-7400. Student photos are taken daily (8:30 a.m.-10:30 p.m.) at the Royal Card Office.

TUITION PAYMENTS

Tuition and fees are payable in advance upon registration. Registration is to be completed by mail in August 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 Drexel University. 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. A completed form must be filed in the Bursar’s Office each year to receive the reduction for that year.

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.

VISA and MasterCard use is available for tuition and fee payments. Please contact Bursar’s Office for details.
TUITION AND FEES
ACADEMIC YEAR 1995-96

TUITION per credit (Day School) ................................................................. $390.
(Summer Session) .................................................................................. $326.

ORDINARY FEES
University Fee per semester, for all CAS, SOM & CHEHR students ....................... $370.
Health Service Fee per semester ........................................................................ $65.
Continuation Fee (in lieu of University Fee for students not in residence) per semester $  5.
Medical Leave Fee per semester ........................................................................ $ 15.
Orientation Fee .............................................................................................. $145.
Reader (Individual Study) Fee, per credit, in addition to regular tuition ............... $ 25.
Breakage Fee ................................................................................................. (Actual)
Commencement/Yearbook Fee ................................................................. $180.

LABORATORY FEES
Science Departments
- Biology Labs, per course, per semester ...................................................... $100.
- Chemistry Labs, per semester ................................................................. $ 40.
- Physics labs, per course, per semester ...................................................... $ 70.
- 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 ..................................... $ 50.

Foreign Language Department
- Language Lab Fee, per course, per semester ......................................... $ 50.

Nursing, Occupational Therapy, and Physical Therapy Departments
- Clinical Lab, per hour, per semester ....................................................... $ 20.
- Assessment Fee (Nursing—Jr./Sr.) ........................................................ $40/50.

Department of Art and Music
- All Studio Art Courses (per course, per semester) ................................... $ 70.
- 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.
Returned Check Fee ................................................................................ $ 25.
Late Registration Fee ................................................................................ $ 20.
Requested Change of Schedule after Classes Begin ...................................... $ 15.
Change of Major Fee ................................................................................ $ 15.
Off-Campus Course Permission Fee ......................................................... $ 25.
Certified Transcript (per copy) .................................................................. $  4.
All Other Requests ................................................................................... $  4.
Application ............................................................................................... $ 15.
Parking Fee, annual .................................................................................. $100.
Locker Rent, per year ................................................................................ $100.
Reinstatement to Class List ....................................................................... $150.

ROOM AND BOARD FEE SCHEDULE:
Room Rent A (per semester)—Redington and Gavigan Halls ......................... $1,916.
Room Rent B (per semester)—Theme Houses, Driscoll, Jefferson, Gannon, Lavis, McCormick, and Nevils Halls; Tioga House, Westmoreland House ......................... $1,811.
Room Rent C (per semester)—Upper & lower quad halls, University apartments, Cambria House, Wyoming House ......................................................... $1,706.
Intersession Room Rent ........................................................................... $ 224.
Room Damage Deposit ............................................................................. $ 200.
Food Plan. 19 meal plan ........................................................................... $359.
Food Plan. 14 meal plan ............................................................................ $331.
Food Plan. 10 meal plan ........................................................................... $288.
Summer Room Charges ........................................................................... $316.
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

<table>
<thead>
<tr>
<th>Credit</th>
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<tbody>
<tr>
<td>Before the first day of classes and</td>
<td>100%</td>
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<tr>
<td>To and including 10 calendar days of the semester</td>
<td>75%</td>
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<tr>
<td>To and including 17 calendar days of the semester</td>
<td>50%</td>
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<tr>
<td>To and including 24 calendar days of the semester</td>
<td>25%</td>
</tr>
<tr>
<td>Beyond 31 calendar days of the semester</td>
<td>no refund</td>
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</tbody>
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SCHEDULE OF REFUNDS — INTERSESSION/Summer Sessions

<table>
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<tr>
<th>Credit</th>
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<tbody>
<tr>
<td>Before the first day of classes and</td>
<td>100%</td>
</tr>
<tr>
<td>To and including 2 calendar days of the session</td>
<td>50%</td>
</tr>
<tr>
<td>Beyond 4 calendar days of the session</td>
<td>no refund</td>
</tr>
</tbody>
</table>

PRO RATA 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.

HEALTH INSURANCE

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. parent’s 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.

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.

**FEDERAL STAFFORD LOAN PROGRAM** is available in cooperation with community banks, credit unions, and savings and loan associations. Applications should be obtained from your lender. The University of Scranton’s preferred lender is PNC Bank. 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. A FAFSA application must be filed by May 1.

**FEDERAL SUPPLEMENTAL 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 $2,340 per academic year, based on financial need. A FAFSA application is required.

**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 FAFSA and University Application for Financial Aid are submitted.

**OTHER PROGRAMS:**

**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):
— to Noel M. Kramer
— to Kathleen M. Kelly
— to Laura M. Novak
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. Its designation was changed 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 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 1991-95 are:
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 names of the Ignatian Scholarships and the recipients for 1992-96 are:
THE REV. JOHN J. BURNS, S.J. SCHOLARSHIP—to Kathleen P. Drower of Tunkhannock, Pennsylvania (Scranton Preparatory School).
THE REV. JAMES J. CONLIN, S.J. SCHOLARSHIP—to Thomas W. Janofsky of West Chester, Pennsylvania (Devon Preparatory School).
THE JOHN S. FLANAGAN SCHOLARSHIP—to Michael R. Tracy of Scranton, Pennsylvania (West Scranton High School).
THE HUGH J. GOWNLEY SCHOLARSHIP—to Melissa M. Incavido of Lake Ariel, Pennsylvania (North Pocono High School).
The names of the Ignatian Scholarships and the recipients for 1992-96 continued:
THE EUGENE A. MCGINNIS, PH.D. SCHOLARSHIP—to Timothy M. Gallen of West Chester, Pennsylvania (Regis High School).
THE MONSIGNOR PAUL J. PURCELL SCHOLARSHIP—to Maria D. Reese of Lake Ariel, Pennsylvania (North Pocono High 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 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).

The names of the Ignatian Scholarships and the recipients for 1994-98 are:
THE RICHARD J. BOURCIER, PH.D. SCHOLARSHIP—to Thomas Truszkowski of Long Valley, NJ (Oratory Preparatory School).
THE REV. JOHN J. HIGGINS, S.J. SCHOLARSHIP—to Elizabeth Pilat of Nashua, NH (Bishop Guertin High School).
THE REV. WILLIAM B. HILL, S.J. SCHOLARSHIP—to Margaret Mullan of Elkton, MD (Archmere Academy).
THE BERNARD V. HYLAND, M.D. SCHOLARSHIP—to Karen Carpency of Hellertown, PA (Bethlehem Catholic High School).
THE THOMAS J. MCHUGH, ESQ. SCHOLARSHIP—to Nancy Klein of Franklin Square, NY (Kellenberg Memorial High School).
THE HON. ROBERT J. MELLOW SCHOLARSHIP—to Georgette Lavetsky of Dickson City, PA (Scranton Preparatory School).
THE MRS. ETHEL MULLIN SCHOLARSHIP—to Karolyn Teufel of Kingston, PA (Bishop O’Reilly High School).
THE PATRICK T. RYAN, ESQ. SCHOLARSHIP—to Jennifer Taylor of Sinking Springs, PA (Holy Name High School).

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
Vice President for Institutional Advancement
(717) 941-7661

Marie Trovato
Director of Planned Giving and Special Gifts
(717) 941-7661

ENDOWED SCHOLARSHIPS AND AWARDS

THE ALPERIN FAMILY AWARD—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 Alperin family companies and their families, but all worthy students from Lackawanna County and Northeastern Pennsylvania are considered.

THE JOSEPH JAMES AND MARY AGNES ANDRAKO AWARDS—These funds were established in 1988 according to the provisions in the will of the late Joseph J. Andrako. The award benefits students who have financial need and who are enrolled in a pre-medical or allied health sciences program.

THE FRANK A. AND HELEN S. BACIEWICZ SCHOLARSHIP—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.

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—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—Income from this fund provides awards to 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.

ALIO J. BUSELLI MEMORIAL SCHOLARSHIP—Created in memory of Alio J. Buselli by his wife, June, to assist incoming freshmen from Lackawanna County pursuing a degree in chemistry.
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—Established in 1973 by a local businessman and alumnus, Class of ’47, this fund provides aid to 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—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.

GRACE COURTNEY SCHOLARSHIP FUND—Raymond S. Courtney established this award with a bequest in memory of his wife. This award provides financial assistance to students who meet the University’s admission requirements.

SALVATORE CUSUMANO FAMILY SCHOLARSHIP FUND—Set up from a bequest, this fund provides aid to students who are enrolled in the pre-medical program. First choice is given to local students.

HAROLD DAVIS M.D. SCHOLARSHIP FUND—This award, established in 1994, is presented to a female undergraduate from Northeastern, PA pursuing a degree in the health sciences. The recipient must be involved in extra curricular activities. Both financial need and scholastic merit will be considered.

THE JUDITH A. DOYLE SCHOLARSHIP—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—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. EDELSON AWARD—In 1964 a sum was bequeathed in the Estate of Robert I. Edelsohn, a Polish immigrant who became a Scranton businessman and realtor. Income from the fund is used to furnish awards for needy and deserving students at the University.

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 ETR AND ASSOCIATES, INC. SCHOLARSHIP—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.

THE MARTHA FITCH AWARD—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.

FATHER FITZPATRICK SPIRIT FUND—Established by several alumni in memory of Fr. Fitzpatrick who guided and influenced many students, the fund provides for special needs for athletics, crisis funds for students in need, and items related to the encouragement of school spirit.

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—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—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 assist deserving and financially needy students each year.

THE JOHN R. GAVIGAN AWARD—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, S.J. 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 DR. AND MRS. JOHN GIUNTA SCHOLARSHIP—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 extracurricular 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. First consideration is given to residents of Lackawanna County.

THE IRVING AND EDYTHE GROSSMAN SCHOLARSHIP 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 AWARD—The Estate of Joseph F. Gunster provided funds for this award to honor the memory of his father. Awards are based on merit.

MARGARET GUNSTER AWARD—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—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 used for awards given annually to students from N.E. Pennsylvania.

THE JOHN AND LUCILLE GUZEY AWARD—An endowed award by Mr. and Mrs. John Guzey was begun initially in 1978. It assists members of the Scranton Boys’ and Girls’ Clubs, and also students with 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.

REV. WILLIAM B. HILL S.J. SCHOLARSHIP FUND—This fund was established to honor Fr. Hill by his sister, Gerardine C. Hill. Since 1969, Fr. Hill has served in several administrative positions at the U. of S. including assistant to the president.

THE HILL NEIGHBORHOOD ASSOCIATION/PETER CHEUNG AWARD—This fund was named for Peter Cheung, 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 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.

GEORGE RONALD HOLMES PH.D. SCHOLARSHIP—Dr. Holmes and his wife started this award to provide aid to junior and senior psychology majors.

THE FRANK AND JEAN HUBBARD AWARD—This fund was established through a generous gift from Frank and Jean Hubbard. It is for graduates from North Pocono High School in the top 25% of the class who have financial need. It is expected that the recipient will take a minimum of fifteen credits each semester.

ITT AWARD—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—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—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 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. Available for four years, as long as the recipient maintains a grade point average of 3.00 or better.

B. CARL JONES MEMORIAL AWARD—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—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 is given to family members and grandchildren of the members of the Koch-Conley American Legion Post 121. Thereafter, family members of other Pennsylvania American Legion Post members may be considered.

REV. STEPHEN A. KOLLAR MEMORIAL AWARD—Established in 1977 from the Will of the late pastor of Holy Family Church, Scranton, PA. Applications must be considered in the following priority: 1) kinship to Rev. Stephen Kollar; 2) members of the Holy Family Church for a minimum of three years prior to filing the application. In the event that there are no eligible candidates in these categories, other needy students may be considered.

THE MARY R. WALSH KRAHE AWARD—Established in 1987 by Mary R. Walsh Krahe in memory of her brothers, Nicholas E. Walsh and William E. Walsh, and the Walsh family of Old Forge, PA. Funds provide support to a student from Lackawanna County with preference given to students who attended Old Forge High School.

KUEHNER AWARD—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—In 1990 a gift was made to the University through the estate of Robert G. Lavis, a Scranton businessman. Income from this fund provides a full four year award to an incoming freshman. This award also helps junior and senior students (who have a reduction in their ability to meet educational expenses).

EDWARD P. LEAHY AWARD—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—This fund was established to assist with the cost of education for students of Leslie Fay employees at the Wilkes-Barre, Pennsylvania facility.

THE RALPH J. LOMMA AWARD—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. The full-tuition scholarship is awarded each four years to one student.

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 BRUCE LOWENBERG AND JOHN MCLEAN KELLY MEMORIAL AWARD—This fund was established in 1988 by Mrs. Frances McLean Lowenberg. It provides awards 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.

BETH ANNE MACKIE MEMORIAL AWARD—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 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.

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—Established in 1985 by former trustee, Thomas E. Sheridan ’60, and many other alumni, students, family and friends to honor Professor John P. McLean, a School of Management faculty member for over 50 years. It is distributed to deserving accounting students.

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—This fund was established by Paul M. Montrone, ’62, President of the Henley Group, Inc. to honor his father. It assists a School of Management student who best exemplifies the senior Mr. Montrone’s life-long dedication to self-improvement and ethical behavior in business.

LESLIE E. MORGAN SCHOLARSHIP—Established through a bequest, this fund is restricted to students studying in one of the health service professions.

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—This fund was established in 1957, through a bequest of Miss Margaret Murphy, a retired schoolteacher and lifelong resident of Scranton. Margaret and her sister Katherine made the award “in loving memory of our mother, father and brothers,” to assist needy and deserving students.

JAMES NASSER FAMILY AWARD—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 Operations Management major of the School of Management and/or active members of the University of Scranton Chapter of APICS.

THE MARION R. OATES MEMORIAL AWARD—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—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. 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.

ERNEST D. PREATE AWARD—The family of Attorney Ernest D. Preate, Sr. established this fund in March 1982. First consideration is given to needy students who are residents of Lackawanna County.

THE REV. J.J. QUINN, S.J. SCHOLARSHIP—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—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 student’s family situation (e.g., number of children in school needing parental support).

THE DR. RICHARD A. RENDICH EDUCATIONAL AWARD—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.

JOHN M. ROBINSON AWARD—Established by John M. Robinson who attended the University and subsequently established LPS Industries, Inc. in Newark, NJ. The Award assists promising and deserving students. Scranton area residents receive first consideration.

PATRICK AND MARIE C. ROCHE SCHOLARSHIP—Out of their affection for the University and respect for the school’s mission, Scranton natives, Patrick and Marie Roche created this scholarship for eligible Lackawanna County students.

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.

REV. JOSEPH A. ROCK, S.J. SCHOLARSHIP—Created in memory of Father Joseph A. Rock, S.J. who served as acting president in 1970, to assist students enrolled in the academic development program.


CHARLES V. SABATINO, SR. SCHOLARSHIP—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—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—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. This award is given to an accounting major during the junior year.

THE AMELIA SURACI AWARD—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. Suraci’s 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.

UNICO SCHOLARSHIP—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—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 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. The award is presented to a junior or senior who plans a career of service to the handicapped.

THE WILLIAM ZAHLER AWARD—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. Income from the endowed award is distributed to deserving young men and women.

ANNUAL AWARDS

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.

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.

CECO ASSOCIATES, INC. SCHOLARSHIP—Started in 1993 by Mr. Angelo Rosati, President of CECO Associates, Inc. to assist a Lackawanna County senior pursuing a degree in engineering or a similar field.

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.

CONNAUGHT LABORATORIES, INC.—Each year, two graduate students with demonstrated excellence in the field of biology and who are pursuing a Biochemistry Masters Degree are selected for a summer internship at Connaught’s Swiftwater, PA location.

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.

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 department’s 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.

Dr. Wineburgh established the program to honor an elementary teacher, Rose I. Kelly, who greatly influenced his life.
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.

MR. AND MRS. PALMER P. LIBERATORE SCHOLARSHIP—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 CHARLOTTE W. NEWCOMBE FOUNDATION AWARD—This fund provides scholarship aid for mature, second-career women students.

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, sponsored by the law firm O’Malley & Harris, P.C., 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.

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 ARMOND AND BETTY STRUTIN SCHOLARSHIP—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.

BIENNIAL SCHOLARSHIP

DR. JOHN H. CORCORAN SCHOLARSHIP—Biennially the Society provides funds for a University of Scranton student or students to enjoy the benefits of studying at an Irish University one or two semesters, in Ireland. 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.
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

BOARD OF TRUSTEES

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Kathleen Graff
Frederick W. Hill, Esq.
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Robert W. Keeler
Robert B. Lawton, S.J.
Edward R. Leahy, Esq.
William R. Lynett
Edward J. Manley
Joseph M. McShane, S.J.
Ann Moskovitz
Brian J. Murray
Louis J. Myers
Eugene A. Nolan, S.J.
Kevin G. O’Connell, S.J.
J.A. Panuska, S.J.
Rev. Joseph G. Quinn
Harold E. Ridley, S.J.
Susan M. Swain
Gerald P. Tracy, M.D.
David J. Williams

ADMINISTRATION

President of the University (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, D. et U. (1964)
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 Institutional Advancement (1983)
Robert J. Sylvester (1983)
B.S., University of Scranton;
M.A., Fairfield University
Vice President for University Ministries (1976) and
University Chaplain (1989)
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)
R.S., State University of New York at Fredonia;
M.A., Michigan State University;
Ed.D., Columbia University

* The Pro Deo et Universitate Award for Twenty Years or more Service to the University.

250
Dean, College of Arts and Sciences (1990)
Paul F. 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 (1995)
Robert E. Powell (1995)
Professor of Mathematics (1995)
B.A., M.A., Michigan State University
Ph.D., Lehigh 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)
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 Resources (1991)
Professor, Education (1994)
B.A., La Salle University;
M.S., Temple University;
M.A., Glassboro State College;
Ed.D., Rutgers University

Dean of Admissions (1981)
A.B., M.A., Loyola University Chicago;
S.T.B., Woodstock College

Associate Vice President for Operations, (1988)
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

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

* The Pro Deo et Universitate Award for Twenty Years or more Service to the University.
FACULTY

PROFESSORS EMERITI

Panos Apostolidis, Ph.D.
(1977-1989)
Department of Management/Marketing

Helen P. Kelly, M.S.
Assistant Librarian

Martin D. Appleton, Ph.D.
Department of Chemistry

Raymond L. Kimble, Ed.D.
Department of Education

John J. Baldi, M.S.S.W., D.S.S.
Department of Sociology

Lawrence J. Lennon, Ph.D.
D. et U. * (1946-1974)
Department of Psychology

Edward F. Bartley, M.A.
D. et U. * (1938-1987)
Department of Math/Computer Science

Eugene McGinnis, Ph.D.
Department of Physics/EE

Richard J. Bourcier, Ph.D.
Department of Foreign Languages and Literatures

John P. McLean, B.S.
D. et U. * (1940-1990)
Department of Accounting

Frank A. Cimini, M.A.
D. et U. * (1941-1985)
Department of Foreign Languages and Literatures

Marianne McGighe, M.S.
D. et U. * (1946-1986)
Associate Librarian

John J. Clarke, Ph.D.
(1986-1995)
Department of Communication

John J. Murray, Ph.D.
Department of English

James J. Conlin, S.J., Ph.D.
Department of Sociology/Criminal Justice

Mildred A. Norton, M.S.
Associate Librarian

Francis H. Curtis, M.Ed.
Department of Education

Matthew R. O’Rourke, M.A.
Department of English

Joseph C. Dougherty, Ph.D.
Department of History/Political Science

Andrew W. Plonsky, M.S., E.E.
Department of Math/Computer Science

Joseph T. Evans, Ph.D.
Department of Biology

Department of Math/Computer Science

Thomas M. Garrett, Ph.D.
D. et U. (1960-1988)
Department of Philosophy

John J. Quinn, S.J., Ph. D.
Department of English

A. John Giunta, Ph.D.
D. et U. * (1960-1993)
Department of Economics/Finance

Stephen P. Ryan, Ph.D.
Department of English

Walter Haab, Ph.D.
Department of Chemistry

Henry V. Sattler, C.S.S.R.
Department of Theology

Joseph M. Hamermick, S.J., S.T.B., M.A.
Department of Communication

Angela T. Scardamaglia, M.S.
D. et U. * (1947-1978)
Assistant Librarian

William B. Hill, S.J., S.T.L., Ph.D.
Department of English

Cheng Hwa Siao, M.A., M.S.L.S.
Associate Librarian

Daniel J. Houlihan, J.D.
D. et U. * (1947-1985)
Department of Accounting

John C. Williams, M.S.
Department of Education

Anne J. Jones, M.A.
Department of Fine Arts (1975-1986)

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252
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)
B.A., Millsaps College;
M.A., Ph.D., University of Mississippi;
Clinical Fellowship, University of Pennsylvania School of Medicine
Licensed Psychologist

Associate Professor, Biology (1980)
B.S. State University of New York at Fredonia;
M.S., Ph.D., Lehigh University

Patricia A. Bailey, R.N. (1983)
Professor, Nursing (1995)

Harold W. Baillie (1978)
Professor, Philosophy (1993)
A.B., Yale University;
M.A., Ph.D., Boston College

Assistant Professor, Sociology/Criminal Justice (1975)
B.S., M.S., Virginia Commonwealth University;
M.Ed., M.S., East Stroudsburg University

Subramanian Balakrishnan (1992)
Assistant Professor, Management/Marketing (1992)
B.S., Indian Institute of Technology, Madras;
Ph.D., University of Pittsburgh

Associate Professor, Psychology (1985)
B.A., University of Nevada;
Ph.D., University of Maine

Carolyn E. Barnes (1988)
Professor, Physical Therapy (1988)
Chairperson, Department of Physical Therapy (1988)
B.A., Fairmont State College;
M.S., West Virginia University;
D.T. Watson School of Physiatrics;
Ph.D., University of Pittsburgh

Christopher Baumann (1984)
Associate Professor, Chemistry (1989)
B.S., Oregon State University;
Ph.D., University of Florida

Rebecca S. Beal (1983)
Professor, English (1995)
A.B., Mount Holyoke College;
M.A., University of Texas

John Begley, S.J. (1985)
Associate Professor, Theology/Religious Studies (1985)
A.B., M.A., Boston College;
Ph.L., S.T.L., Weston College;
S.T.D., Gregorian University

John A. Beidler, C.D.P., D. et U. * (1964)
Professor, Computer Sciences (1976)
A.B., King’s College;
M.A., Lehigh University;
Ph.D., Pennsylvania State University

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J. Timothy Cannon (1981)
Associate Professor, Psychology (1986)
B.S., University of Scranton;
Ph.D., University of Maine

Robert Jeffrey Cantrell (1995)
Assistant Professor, Education (1995)
B.S., M.Ed., Ed.D., University of Virginia

Professor, Philosophy (1974)
B.S., M.A., University of Comillas, Spain;
Ph.D., University of Ottawa

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)
Chairperson, Accounting (1992)
M.B.A., University of Scranton
B.S., Ph.D., The Pennsylvania State University;

Dona Carpenter, R.N. (1985)
Associate Professor, Nursing (1993)
B.S.N., College Misericordia;
M.S.N., Villanova University;
M.Ed., Ed.D. Columbia University

Instructor, Mathematics (1995)
B.A., B.S., Ph.D. Cand., Lehigh University

Professor, English (1981)
B.S., Loyola University, Chicago;
MA., University of Iowa;
Ph.D., University of Wisconsin

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;
M.A., University of Pittsburgh;
Ph.D., Duquesne University

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;
Ph.D., Rutgers University

Satya P. Chattopadhyay (1990)
Assistant Professor, Management/Marketing (1990)
B.M.E., Jadavpur University;
P.G.D.M., Indian Institute of Management, Calcutta;
Ph.D., Virginia Polytechnic Institute and State University

Ying I. Chien (1979)
Associate Professor, Operations and Information Management (1979)
B.S., National Taiwan University;
M.S., University of Manitoba;
Ph.D., University of Kentucky

Jafar Chowdhury (1987)
Associate Professor, Management/Marketing (1993)
M. Comm., B. Comm., Dacca University;
M.B.A., Dhalwah University;
Ph.D., Temple University

Joseph F. Cimini (1980)
Associate Professor, Sociology/Criminal Justice (1994)
B.A., University of Scranton;
J.D., Columbus School of Law,
The Catholic University of America

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)
B.S., University of Scranton;
M.S., Rutgers University;
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., Marvavaian College;
M.A., Ph.D., Lehigh University

James I. 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, Operations and Information Management (1987)
B.S., M.B.A., Ph.D., Pennsylvania State University

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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

Professor, Biology (1977)
B.A., University of Scranton;
M.S., St. John’s University;
Ph.D., Hahnemann Medical College Graduate School

Jones DeRitter (1990)
Associate Professor, English (1995)
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., University of Maryland

Mary Jane DiMatto (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., 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;
M.S., 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

Professor, Psychology (1974)
B.S., Pennsylvania State University;
M.S., Ph.D., University of Massachusetts

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

Joseph H. Dreisbach (1989)
Chairperson, Department of Chemistry (1991)
B.A., B.F.A. University of Houston;
M.A., Ph.D., University of Pennsylvania

Sandra L. DiGiaimo (1989)
Assistant Professor, Education (1993)
B.A., Paterson State College;
M.S., Ohio University;
Ph.D., University of Maryland

Mary Jane DiMatto (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., Ph.D., Lehigh University

The Pro Deo et Universitate Award for Twenty Years or More Service to the University.

255
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 and Informational Science)

Anthony Ferzola (1990)  
Associate Professor, Mathematics (1990)  
B.A., Queens College;  
M.A., Ph.D., New York University

Mary Anne Foley, C.N.D. (1991)  
Assistant Professor, Theology and Religious Studies  
B.A., Sacred Heart University;  
M.T.S., Weston School of Theology;  
M.Phil., Ph.D., Yale University

Daniel V. Frankstino (1982)  
Professor, English (1991)  
B.A., State University of New York at Buffalo;  
M.A., San Diego State University;  
Ph.D., State University of New York at Binghamton

Brigid Curtin Frein (1988)  
Associate Professor, Theology/Religious Studies (1994)  
Chairperson, Department of Theology/Religious Studies (1995)  
B.A., Gonzaga University;  
Ph.D., St. Louis University

Michael Friedelman (1991)  
Associate Professor, English (1995)  
B.A., Tulane University;  
M.A., Ph.D., Boston University

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;  
Ph.D. Candidate, New York University

Professor, Education (1983)  
B.A., Rider College;  
M.Ed., University of Vermont;  
Ed.D., State University of New York at Albany

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)  
Chairperson, Department of Communication (1995)  
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;  
M.S., University of Scranton;  
Ed.D., Columbia University

Satyajit P. Ghosh (1986)  
Associate Professor, Economics/Finance (1992)  
Chairperson, Department of Economics/Finance (1993)  
B.A., Presidency College, India;  
M.A., University of Calcutta;  
M.A., Ph.D, State University of New York at Buffalo

Kingsley S. Gnanendran (1989)  
Associate Professor, Operations and Information Management (1995)  
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;  
M.A., University of Illinois;  
Ph.D., Temple University

Deborah J. Gougeon (1979)  
Associate Professor, Operations and Information Management (1988)  
B.S., M.S., University of Scranton;  
Ph.D., Walden University

Professor, English (1982)  
B.A., St. Mary’s University, Halifax;  
MA, Ph.D, University of Massachusetts

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

Associate Professor, Accounting (1985)  
B.S., M.B.A., University of Scranton;  
M.S., University of Scranton;  
Ph.D., Pennsylvania State University

James R. Grana (1994)  
Instructor, Health Administration and Human Resources (1994)  
B.S., Abilene Christian University;  
M.S., Ph.D. Cand., Pennsylvania State University

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

* The Pro Deo et Universitate Award for Twenty Years or more Service to the University.
David W. Hall (1985)
Associate Professor, Counseling and Human Resources (1991)
Chairperson, Department of Counseling and Human Resources (1994)
A.B., Lycoming College;
M.S., University of Scranton;
Ph.D., Pennsylvania State University
Licensed Psychologist
National Certified Counselor
Certified Rehabilitation Counselor
Joyce Hanks (1989)
Professor, Foreign Languages and Literatures (1995)
M.A., University of Wisconsin;
B.A., Ph.D, Washington University
Professor, Biology (1995)
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
Jean Wahl Harris (1987)
Associate Professor, History/Political Science (1993)
B.A., M.A., Ph.D., State University of New York at Binghamton
Maurice I. Hart, Jr., D. et U. * (1963)
Professor, Chemistry (1971)
A.B., Maryknoll College;
M.S., Ph.D., Fordham University
Eileen B. Hewitt (1982)
Assistant Professor, Management/Marketing (1988)
B.S., St. Joseph’s College, Maine;
M.S., University of Hartford
John M. Hill (1981)
Associate Professor, English (1987)
B.A., Central College;
M.A., University of Illinois;
M.F.A., University of Iowa;
Ph.D. Cand., University of Illinois
Thomas P. Hogan (1985)
Professor, Psychology (1985)
B.A., John Carroll University;
M.A., Ph.D., Fordham University
Mary Beth Holmes (1992)
Instructor, Communication (1994)
B.A., University of Scranton;
M.S., Syracuse University;
Ph.D. Candidate, Syracuse University
Frank X.J. Homer, D. et U. * (1968)
Professor, History/Political Science (1984)
A.B., University of Scranton;
M.A., Ph.D., University of Virginia
Assistant Professor, Physical Education (1970)
B.S., East Stroudsburg University;
M.S., University of Massachusetts
Beth Howlett (1980)
Associate Professor, Physical Education (1995)
B.S., M.S., State University of New York at Cortland;
M.S., University of Scranton
Ph.D., Temple University
Sharon Hudack, R.N. (1990)
Associate Professor, Nursing (1995)
B.S.N., M.S.N., College Misericordia;
M.Ed., Ed.D., Columbia University
Associate Professor, History/Political Science (1976)
A.B., College of the Holy Cross;
M.A., Ph.D., University of Notre Dame
Associate Professor, Economics/Finance (1985)
B.S., Forman College, Pakistan;
M.S., University of Panjab, Pakistan;
M.B.A., University of Scranton;
Ph.D., Johns Hopkins University;
Ph.D., Lehigh University
Assistant Professor, Computing Sciences (1982)
B.S. University of Scranton;
M.S., Rensselaer Polytechnic Institute
Jakub S. Jasinski (1987)
Associate Professor, Mathematics (1992)
B.S., Ph.D. University of Gdansk
Assistant Professor, Mathematics (1979)
A.B., Wilkes College;
M.A., Bucknell University
Roxanne T. Johnson (1993)
Assistant Professor, Accounting (1993)
B.A., University of Delaware;
B.B.A., University of Florida;
Ph.D., Pennsylvania State University
Cathleen Jones (1991)
Assistant Professor, Education (1991)
B.A., California Lutheran University;
M.A., California State University at Northridge;
Ph.D., Brigham Young University
Associate Professor, English (1976)
Chairperson, Department of English (1987)
A.B., M.A., University of Scranton;
Ph.D., St. Louis University
Prasadarao V. Kakumanu (1978)
Professor, Operations and Information Management (1984)
Chairperson, Department of Operations and Information Management (1987)
B.S., Andhra University;
M.S., Patna University;
M.S., Delhi University;
Ph.D., Cornell University
Professor, Physics/Electronics Engineering (1974)
B.S., University of Scranton;
M.S., University of Delaware
John Kallianiotis (1990)
Assistant Professor, Economics/Finance (1990)
B.A., University of Thessalonika;
M.A., M.Ph., Ph.D., City University of New York

* The Pro Deo et Universitate Award for Twenty Years or more Service to the University.

257
Thomas A. Kamla (1978)
Professor, Foreign Languages and Literatures (1987)
B.A., St. John’s University, Minnesota;
M.A., Ph.D., University of Wisconsin

Jack Kasar (1993)
Assistant Professor, Occupational Therapy (1993)
Chairperson, Department of Occupational Therapy (1994)
B.A., West Chester University;
M.S., Virginia Commonwealth University;
Ph.D., University of Pennsylvania

Jan W. Kelly (1988)
Associate Professor, Communication (1988)
B.A., Pennsylvania State University;
M.A., San Francisco State University;
Ph.D., University of Minnesota

Lawrence W. Kennedy (1992)
Assistant Professor, History/Political Science (1992)
A.B., A.M., Ph.D., Boston College

Joseph Klazakka (1994)
Associate Professor, Education (1994)
B.A., M.A., Lebanese University;
Ph.D., Stanford University

Stephen L. Klingman, D. et U. * (1973)
Assistant Professor, Physical Education (1977)
B.S., M.S., Ithaca College

Richard Klonoski (1981)
Professor, Philosophy (1994)
B.A., University of Scranton;
M.A., Kent State University;
Ph.D., Duquesne University

Robert Kocsis (1989)
Associate Professor, History/Political Science (1993)
B.A., St. Vincent College;
M.A., Ph.D., University of Pittsburgh

M. Jane Kopas, O.S.F. (1978)
Professor, Theology/Religious Studies (1993)
B.S., M.A., St. Bonaventure University;
Ph.D., Graduate Theological Union

Edmund M. Kosmahl (1983)
Associate Professor, Physical Therapy (1994)
B.S., M.S., Temple University;
Ed.D., Nova University

Gary G. Kwiecinski (1988)
Associate Professor, Biology (1993)
A.A., A.A.S., Rockland Community College;
M.S., Rutgers University;
Ph.D., Cornell University

Neela Lakshmanan (1987)
Assistant Professor, Mathematics (1987)
B.S., M.S., Morris University;
M.A., Ph.D., State University of New York at Buffalo

Robyn Lawrence (1993)
Assistant Professor, Accounting (1993)
B.S., University of California;
M.S., California State University;
Ph.D., University of Houston

Linda Ledford-Miller (1985)
Associate Professor, Foreign Languages and Literatures (1993)
B.A., University of California, Irvine;
M.A., Pennsylvania State University;
M.A., Ph.D., University of Texas at Austin

John J. Levko, S.J. (1979)
Professor, Mathematics (1987)
Director, Eastern Christian Studies (1986)
B.A., M.S., Ph.D., Lehigh University;
S.T.B., Gregorian University;
M.A., John XXIII Institute, Maryknoll;
S.E.O.L., S.E.O.D., Pontifical Oriental Institute, Rome, Italy

Dennis Linehan, S.J. (1967-69; 1984)
Assistant Professor, Theology/Religious Studies (1985)
A.B., M.A., St. Louis University;
M. Div., Woodstock College;
Ph.D., University of London

Professor, Biology (1973)
B.S., Spring Hill College;
M.S., Ph.D., The Catholic University of America

Assistant Professor, Accounting (1989)
B.S., M.B.A., University of Scranton;
Ph.D., Syracuse University

Dennis S. Martin (1985)
Associate Professor, Computing Sciences (1985)
B.S., Manhattan College;
M.A., University of Rochester;
M.S., Ed.D., State University of New York at Buffalo

David E. Marx (1987)
Associate Professor, Chemistry (1992)
B.S., East Stroudsburg University;
Ph.D., State University of New York at Binghamton

Susan Fournier Mathews (1988)
Associate Professor, Theology/Religious Studies (1993)
B.A., St. Anselm College;
M.A., Ph.D., The Catholic University of America

Gary E. Mattingly (1983)
Associate Professor, Physical Therapy (1988)
B.S., St. Ambrose College;
B.S., University of Scranton;
Ph.D., St. Louis University

Robert McCloskey, (1991)
Assistant Professor, Computing Sciences (1993)
B.S., University of Scranton;
M.S., Ph.D., Rensselaer Polytechnic Institute;

Christine E. McDermott (1979)
Assistant Professor, Biology (1979)
B.A., California State at Fresno;
Ph.D., University of Tennessee

Professor, Philosophy (1979)
A.B., College of the Holy Cross;
Ph.D., Boston College

John M. McInerney, D. et U. * (1966)
Professor, English (1977)
A.B., LeMoyne College
M.A., Ph.D., Loyola University, Chicago

* The Pro Deo et Universitate Award for Twenty Years or more Service to the University.
Associate Professor, Marketing/Management (1993)
B.S., M.B.A., University of Scranton;
M.A., Lehigh University;
Ph.D., Temple University

Associate Professor, Philosophy (1989)
B.A., University of Maryland;
M.Div., Th.M., Weston School of Theology;
M.A., Ph.D., Fordham University

Sharon M. Meagher (1989)
Associate Professor, Philosophy (1995)
B.A., Boston College;
Ph.D., State University of New York at Stony Brook

Michael Opasu Mensah (1987)
Associate Professor, Accounting (1992)
B.S., University of Ghana;
M.B.A., N.E. Louisiana University;
Ph.D., University of Houston

Rebecca L. Mikessell (1994)
Assistant Professor, Communication (1994)
B.S., M.S., Illinois State University;
Ph.D. Cand., Ohio University

Professor, Philosophy (1991)
B.A., M.A., Spring Hill College;
Ph.D., Georgetown University

Kenneth G. Monks (1990)
Associate Professor, Mathematics (1994)
B.S., Pennsylvania State University;
M.S., Ph.D., Lehigh University

Oliver J. Morgan, S.J. (1990)
Assistant Professor, Counseling and Human Services (1990)
B.A., Fordham University;
M.F.T., Hahnemann Medical University;
Ph.D., Boston University

Mary Elizabeth Moyer (1986)
Associate Professor (1995)
Assistant Librarian II (1990)
B.A., Marywood College;
M.L.S., Villanova University;
M.S., University of Scranton

Mary E. Muscari (1992)
Assistant Professor, Nursing (1992)
B.S.N., Pace University;
M.S.N., P.N.P., Columbia University;
Ph.D., Adelphi University

Donna M. Narasavage-Heald (1993)
Assistant Professor, Chemistry (1993)
B.S., University of Scranton;
M.S., Ph.D., Rensselaer Polytechnic Institute

Associate Professor, Nursing (1993)
B.S.N., University of Maryland;
M.S.N., College Misericordia;
Ph.D., University of Pennsylvania

Hong V. Nguyen (1979)
Associate Professor, Economics/Finance (1985)
B.S., State University of New York at Brockport;
M.A., Ph.D., State University of New York at Binghamton

John C. Norcross (1985)
Professor, Psychology (1990)
B.A., Rutgers University;
M.A., Ph.D., University of Rhode Island;
Clinical Internship, Brown University School of Medicine
Licensed Psychologist

Kevin M. Nordberg, D. et U. *
Professor, Philosophy (1989)
A.B., Assumption College;
M.A., Ph.D., University of Notre Dame

Kevin R. Norris (1977)
Assistant Librarian II (1981)
B.S., M.L.S., University of Pittsburgh;
M.A., University of Scranton

Joseph F.X. O’Donnell (1992)
Captain, U.S. Army
Assistant Professor, Military Science (1992)
B.S., University of Scranton

Associate Professor, Psychology (1971)
B.S., University of Scranton;
M.S., Ph.D., Ohio University

Alice O’Neill (1989)
Assistant Professor, Health Administration and Human Resources (1993)
R.N., State University of New York at Endicott;
B.S., St. Joseph’s College;
M.S., University of Scranton
Ed.D., Nova University

Peter C. Olden (1993)
Assistant Professor, Health Administration and Human Resources (1994)
B.S., Miami University;
M.H.A., Duke University;
Ph.D., Virginia Commonwealth University

Masood Otarod (1988)
Associate Professor, Mathematics (1994)
B.S., Pahlavi University;
M.S., Sc.D. Columbia University

William J. Parente (1970)
Professor, History/Political Science (1973)
A.B., Xavier University;
Ph.D., Georgetown University

Robert A. Parsons (1979)
Professor, Foreign Languages and Literatures (1991)
Chairperson, Department of Foreign Languages and Literatures (1988)
B.A., M.A., West Virginia University;
M.A., Ohio University;
Ph.D., Pennsylvania State University

* The Pro Deo et Universitate Award for Twenty Years or more Service to the University.
Paul M. Perdew (1985)
Associate Professor, Mathematics (1985)
Chairperson, Department of Mathematics (1993)
B.A., Washington & Jefferson College;
M.A., University of Hawaii;
Ph.D., University of Idaho

Njegos Petrovic, D. et U.* (1967)
Professor, Foreign Languages and Literatures (1974)
A.B., Classical College, Belgrade, Yugoslavia;
M.A., Ph.D., University of Montreal

Virginia A. Picchietti (1995)
Instructor, Foreign Languages and Literatures (1995)
B.A., Rosary College;
M.A., Ph.D., Indiana University

Charles Pinches (1990)
Associate Professor, Theology/Religious Studies (1990)
B.A., Wheaton College;
M.A., Ph.D., University of Notre Dame

Richard Plishka (1986)
Associate Professor, Computing Sciences (1989)
Chairperson, Department of Computing Sciences
B.S., University Of Scranton;
M.S., M.B.A., Syracuse University

Susan Poulson (1990)
Assistant Professor, History/Political Science (1990)
B.A., George Washington University;
M.A., Ph.D., Georgetown University

Satyanarayana Pratipati (1990)
Assistant Professor, Operations and Information Management (1990)
B.S., Andhra University;
M.B.A., Indian Institute of Management;
Ph.D., State University of New York at Buffalo

Assistant Professor, Sociology/Criminal Justice (1972)
Chairperson, Department of Sociology/Criminal Justice (1989)
B.S., University of Scranton;
M.A., Fordham University

Joseph L. Quinn, S.J. (1979)
Assistant Professor, English (1979)
A.B., Ph.L., A.M., Fordham University;
S.T.B., Woodstock College;
A.M., Ph.D., Harvard University

Murli Rajan (1989)
Associate Professor, Economics/Finance (1995)
B.C.A., Victoria University;
M.Com., Delhi School of Economics, University of Delhi;
M.B.A., University of Scranton;
Ph.D., Temple University

Professor, English (1979)
B.S., M.A., University of Scranton;
Ed.D., Temple University

Assistant Librarian II (1978)
B.A., State University of New York at New Paltz;
M.S.L.S., State University of New York at Geneseo

Assistant Professor, Sociology/Criminal Justice (1971)
A.B., Cathedral College;
M.A., St. John’s University;
M.Ed., Ed.D., Columbia University

Joan Robbins (1991)
Assistant Professor, English (1991)
B.A., Boston College;
M.F.A., D. F.A., Yale School of Drama

Assistant Professor, Physical Education (1969)
B.S., Springfield College;
M.A., Trenton State College

Richard W. Rousseau, S.J. (1979)
Professor, Theology/Religious Studies (1979)
A.B., M.A., Boston College;
S.T.L., Faculties St. Albert de Louvain, Belgium;
S.T.D., St. Paul’s University, Ottawa;
Ph.D., University of Ottawa

William Rowe (1990)
Associate Professor, Philosophy (1990)
B.A., Allegheny College;
M.A., Pittsburgh Theological Seminary;
M.Phil., Institute for Christian Studies;
Ph.D., Duquesne University

Professor, Sociology/Criminal Justice (1992)
B.A., Sophia University;
M.A.L.S., University of Michigan;
M.A., Ph.D., Michigan State University

Thomas F. Sable, S.J. (1985)
Associate Professor, Theology/Religious Studies (1991)
B.A., Boston College;
M.S., Georgetown University;
M. Div., Jesuit School of Theology;
Ph.D., Graduate Theological Union

Robert P. Sadowski (1989)
Associate Professor, Economics/Finance (1994)
B.S., St. Bonaventure University;
M.A., Ph.D., State University of New York at Binghamton

Carl Schaffer (1988)
Associate Professor, English (1991)
B.A., Farleigh Dickinson University;
M.A., University of Michigan;
M.F.A., University of Iowa;
Ph.D. Cand., University of Denver

Rose Sebastianelli (1988)
Associate Professor, Operations and Information Management (1995)
B.S., Indiana University of Pennsylvania;
Ph.D., Pennsylvania State University

* The Pro Deo et Universitestate Award for Twenty Years or more Service to the University.
Assistant Professor, History/Political Science (1995)  
B.A., DePaul University;  
M.A., Ph.D., University of Notre Dame

Carol Anelli Sheppard (1995)  
Assistant Professor, Biology (1995)  
B.A., Southern Connecticut State College;  
M.S., Ph.D., University of Illinois at Urbana

Larry R. Sherman (1981)  
Assistant Professor, Chemistry (1981)  
B.S., Lafayette College;  
M.S., Utah State University;  
Ph.D., University of Wyoming

James R. Sidbury (1983)  
Associate Professor, Computing Sciences (1983)  
B.S., Duke University;  
M.S., Ph.D., Auburn University

Associate Professor, Mathematics (1974)  
B.S., King’s College;  
M.A., Fordham University;  
Ph.D., University of Missouri

Carole S. Slotterback (1995)  
Instructor, Library (1994)  
B.A., State University of New York at Oneonta;  
M.A., New York University;  
M.S., State University of New York at Albany

Terrence E. Sweeney (1992)  
Assistant Professor, Biology (1992)  
B.A., Colgate University;  
M.S., Ph.D., University of Rochester

Narda Tafuri (1994)  
Instructor, Library (1994)  
B.A., State University of New York at Oneonta;  
M.A., New York University;  
M.S., State University of New York at Albany

John T. Talamini (1977)  
Associate Professor, Sociology/Criminal Justice (1981)  
B.S., St. Joseph’s College;  
M.A., Fordham University;  
Ph.D., Rutgers University

E. Springs Steele  
Associate Professor, Theology/Religious Studies (1986)  
B.A., M.A., Ph.D., University of Notre Dame

Professor, Health Administration and Human Resources (1985)  
Chairperson, Health Administration and Human Resources (1989)  
B.S., M.S., D. Ed., Pennsylvania State University  
Licensed Psychologist

Associate Professor, Computing Sciences (1983)  
B.S., M.B.A., West Virginia University

Nabil Tamimi (1993)  
Assistant Professor, Operations and Information Management (1993)  
B.S., Penn State University;  
M.S., University of Scranton;  
Ph.D. Cand. Temple University

Professor, Chemistry (1990)  
B.S., University of California, Berkeley;  
M.S., Ph.D., Iowa State University

* The Pro Deo et Universitate Award for Twenty Years or more Service to the University.
Beatrice K. Volkman (1994)
Assistant Professor, Education (1994)
B.S., Drake University;
M.S., University of South Alabama;
Ph.D., University of Alabama

Carol Ann Wilkie Wallace (1981)
Assistant Professor, Communication (1982)
B.A., M.A., Wayne State University;
Ph.D., University of Iowa

Roger D. Wallace (1976)
Assistant Professor, Communication (1981)
A.B., Butler University;
M.A., Bowling Green University;
Ph.D., University of Michigan

Assistant Librarian II (1990)
B.A., National Taiwan University;
M.L.S., Villanova University;
M.S., University of Scranton

Edward F. Warner, D. et U.* (1964)
Associate Professor, Communication (1980)
A.B., King’s College;
M.S., University of Scranton

Joan M. Wasilewski (1988)
Assistant Professor, Chemistry (1994)
B.S., King’s College;
Ph.D., University of Pennsylvania

Assistant Professor, Education (1993)
B.S., M.Ed., M.S., Shippensburg University;
Ed.D., Montana State University

Daniel West (1990)
Associate Professor, Health Administration and Human Resources (1994)
B.S., M.Ed., Ph.D., Pennsylvania State University

Professor, Military Science (1995)
B.S., University of Vermont;
M.S., Florida Institute of Technology

Stephen E. Whittaker (1983)
Professor, English (1994)
B.A., M.A., Ph.D., University of Texas

David A. Wiley (1988)
Associate Professor, Education (1992)
B.S., M.S., Ph.D., Temple University

Bernard D. Williams, D. et U.* (1962)
Professor, History/Political Science (1976)
B.S., LaSalle College;
M.A., Niagara University

Joseph P. Wilson (1985)
Associate Professor, Foreign Languages and Literatures (1992)
B.A., University of Toledo;
Ph.D., University of Iowa

Director, Athletics (1974)
Assistant Professor, Physical Education (1974)
Chairperson, Department of Physical Education (1974)
B.S., M.A., Ph.D., Northwestern University

Francis J. Wormuth (1979)
Assistant Professor, Management/Marketing (1979)
B.S., University of Scranton;
J.D., Duquesne University School of Law;
LL.M., Boston University School of Law

Richard A. Wright (1989)
Associate Professor, Sociology/Criminal Justice (1989)
B.S., James Madison University;
M.A., Ohio University;
Ph.D., Kansas State University

Zhong Cheng Xiong (1988)
Assistant Professor, Mathematics (1988)
B.S., Wuhan University;
M.S., Ph.D., Lehigh University

Robert P. Yori (1992)
Associate Professor, Accounting (1992)
B.S., Bloomsburg University;
M.B.A., Lehigh University;
Ph.D., Pennsylvania State University

Professor, Foreign Languages and Literatures (1979)
A.B., Ph.L., M.A., St. Louis University;
S.T.L., Woodstock College

Christine A. Zakzewski (1992)
Assistant Professor, Physics/Electronics Engineering (1992)
B.S., Rutgers University, Piscataway;
M.S., Ph.D., Rutgers University Graduate School of New Brunswick

Associate Professor, Nursing (1994)
B.S.N., Duke University;
M.A., Ph.D., New York University

Professor, Accounting (1971)
B.S., University of Scranton;
M.B.A., New York University;
Ph.D., University of Pittsburgh

Habib Zanzana (1995)
Instructor, Foreign Languages and Literatures (1995)
B.S., M.A., Ph.D. Cand., Indiana University

Marie Zichetella-Caffrey (1991)
Assistant Professor, Physical Therapy (1991)
B.S., Ithaca College;
M.S., University of Scranton

John M. Zych (1991)
Assistant Professor, Management and Marketing (1991)
B.S., Worcester Polytechnic Institute;
M.B.A., Babson College;
D.B.A., Boston University

* The Pro Deo et Universitate Award for Twenty Years or more Service to the University.
PROFESSIONAL STAFF AND SERVICES

Mary Kay Aston (1993)
   Associate Chemistry Lab Supervisor (1993)
   B.S., Marywood College
Kevan Bailey (1985)
   Print Shop Production Manager (1994)
Anne Baldwin (1988)
   Assistant Director, Office of Research Services (1992)
   B.A., State University of New York at Binghamton;
   M.S., University of Scranton
Ann Clark Bass (1978)
   Director of Credit Programs/Assistant Dean,
   Dexter Hanley College (1995)
   B.M., Marywood College;
   M.A., Northeast Missouri State University
Joseph M. Beck (1995)
   Library Systems Specialist (1995)
   B.A., University of Scranton
Thomas N. Beckish (1964)
   Counselor, SOM Advising Center (1989)
   Assistant Professor of Psychology (1967)
   B.S., M.S., University of Scranton;
   Certified School Psychologist (1965)
Regina Bennett (1987)
   Assistant to the Dean, Graduate School (1989)
   B.A., University of Scranton
Peter J. Blazes (1991)
   Director of International Student Affairs (1991)
   B.A., Widner University;
   M.Ed., Boston University
Jean Boam (1988)
   Manager of Services, Jesuit Community (1993)
   A.S., Lackawanna Junior College
Cheryl Y. Boga (1982)
   University Singers/Band Director (1982)
   B.M., Marywood College
Geri Maier Botyrius (1992)
   Academic Advisor (1992)
   B.A., King's College;
   M.S., University of Scranton
Brenda Brewer (1993)
   Internal Auditor (1993)
   B.S., Bloomsburg University
Douglas Brckel (1986)
   Director of Intramural and Recreational Sports (1987)
   B.S., East Stroudsburg University
Paul Brown (1987)
   Director of Public Relations (1987)
   B.A., Simpson College;
   M.S., Columbia University
Michele Buchinski (1983)
   Manager, Training and Seminar Development
   Small Business Development Center (1991)
   A.A., B.S., University of Scranton
William Buckley (1990)
   Financial Area Coordinator of Systems Development (1990)
   B.S., Bloomsburg University
Kenneth S. Buntz (1979)
   Sports Information Director (1979)
   A.A., Keystone Jr. College;
   B.A., University of Scranton
Ray Burd (1989)
   Director of Printing and Mailing Services (1994)
   B.S., Empire State College;
   M.S., Shippensburg University
   Director of Personnel Services (1974)
   B.S., M.S., University of Scranton
William R. Burke (1986)
   Director of Financial Aid (1990)
   B.S., Bloomsburg University;
   M.B.A., University of Scranton
Gina Butler (1992)
   Assistant to the Dean, CAS (1994)
   B.A., University of Pennsylvania;
   M.S., University of Scranton
Mark Butler (1994)
   CALS Education and Training Manager (1994)
   B.S., Pennsylvania State University;
   B.S.N., M.S.N., Catholic University
Joseph Cannon (1991)
   Director, Center for Continuing Education (1993)
   B.A., King's College;
   M.B.A., Fordham University
Maureen Castaldi (1985)
   Senior Programmer/Analyst, Computing and Data Services (1989)
   B.S., University of Scranton
Michele Chapin (1994)
   Admissions Counselor (1994)
   B.S., University of Scranton
Shuqiu Cheng (1994)
   MB1 Research Scholar (1994)
   B.S., Wuhan University;
   M.S., Sichuan University
Thomas Cavataio (1993)
   Associate Director of Procurement (1993)
   A.A.S., SUNY, Morrisville;
   B.S., Cornell University
Marilyn Coar, D. et U.* (1948)
   University Secretary (1971)
   Executive Assistant to the President (1973)
   A.B., Rosemont College
Michele Ballou Coe (1988)
   Assistant Director, Learning Resources Center (1988)
   B.S., M.S., University of Scranton
Robert Collins (1992)
   Associate Director of Computer Application Services (1992)
   B.S., East Stroudsburg University
Edward Conway (1987)
   Director, Office of Instructional Technologies, Production, and Broadcast Facilities (1992)
   B.S., East Stroudsburg University;
   M.S., Marywood College

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Lisa Cornell (1983)
   Project Leader, Computing and Date Services (1989)
   B.S., University of Scranton

Joseph Cortese (1990)
   Assistant Director, Personnel Services/
   Benefits Manager (1992)
   B.S., King’s College;
   M.S., University of Scranton

Velma Cotton (1992)
   Admissions Counselor/Minority Recruitment (1992)
   B.A., Canisius College

Margaret E. Craft (1988)
   Assistant Director of Library for Special Services (1988)
   University Archivist (1989)
   Assistant Librarian II (1990)
   A.B., Central Michigan University;
   M.A., University of Scranton;
   A.M.L.S., University of Michigan

Robert Curley (1994)
   Software Support Specialist (1994)
   B.S., Fairfield University;
   M.A., Beaver College

Marianne Czerneyz (1987)
   Assistant to the Dean, CAS (1987)
   B.S., Regis University

Stephen A. Dembrosky (1980)
   Chief of Security (1980)

Maurice DePuy (1993)
   Director of Public Safety (1993)
   B.A., St. Leo College

James Devers, AIA (1985)
   Director of Physical Plant (1989)
   Associate Degree, Luzerne County Community College

Tammy Dixon (1990)
   Assistant Registrar, Systems (1990)
   B.S., University of Pittsburgh at Johnstown;
   M.A., Indiana University of Pennsylvania

Dawn Donohue (1993)
   Admissions Counselor (1993)
   B.S., University of Scranton

   Nurse, Student Health Services (1988)
   R.N., Hahnemann Hospital School of Nursing;
   B.S.N., University of Scranton

Christopher J. Ehman (1989)
   Associate Dean of Admissions (1989)
   B.A., M.A., Gannon University

Sharon Evans (1979)
   Assistant Director, Public Safety (1989)
   Parking/Traffic Manager (1994)
   B.S., East Stroudsburg University

Barbara Evans-Mericle (1990)
   National Board Certified Counselor
   Counselor, Counseling Center (1990)
   B.A., Lockhaven University;
   M.S., University of Scranton

Stephen Fisk (1991)
   Employment Manager (1991)
   B.S., University of Scranton

Julie Foreman (1993)
   Assistant Director, Public Safety (1993)
   B.A., Thiel College;
   B.A., Indiana University of Pennsylvania

James Franceschelli (1982)
   Assistant Director of Information Support Services (1988)
   Associate Degree, Pennsylvania State University

Elaine Gayman (1993)
   Grant Accountant (1993)
   B.S., King’s College

William Genello (1984)
   Associate Director of Public Relations (1987)
   Manager of University Publications (1992)
   B.A., St. Bonaventure University

Christopher Giardina (1991)
   Manager, Special Projects (1992)
   CALS Lab Technician (1993)
   B.S., Rutgers University;
   M.B.A., University of Scranton

Frank Gilmartin (1990)
   Career Counselor (1990)
   B.S., M.S., University of Scranton

Janet N. Gilroy (1983)
   Director of Admissions, Dexter Hanley College (1995)
   B.S., M.S., University of Scranton

Barbara Gleason (1982)
   Assistant Dean, School of Management (1995)
   Director of SOM Advising Center (1988)
   B.S., M.S., University of Scranton

James Goonan (1987)
   Director of Graduate Admissions (1990)
   B.S., M.B.A., University of Scranton

Lucia Granito (1983)
   Assistant to Comptroller (1983)
   B.S., M.B.A., University of Scranton

Ellen Greaven, N.C.C. (1990)
   Associate Campus Minister (1990)
   B.S., M.S., University of Scranton

Michael Gress (1993)
   Research Technician (1993)
   B.S., M.S., University of Scranton

Barbara Griguts (1991)
   SOM Advising Center Counselor (1991)
   B.A., Pennsylvania State University;
   M.S., University of Scranton

William Gunshannon (1989)
   Departmental Systems Administrator (1992)

Denise Gurz (1995)
   Assistant Bursar (1995)
   B.S., Bloomsburg University

Karen Heckman (1989)
   Media Resources Collection Supervisor (1993)
   A.A., University of Scranton

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264
Judith R. Henning (1988)
Director, Learning Resources Center (1988)
B.S., M.S., Marywood College

Larry J. Hickers (1986)
Assistant Director of QIT (1994)
A.S.B., Central Pennsylvania Business School

Cindy Hricko (1985)
Senior Programmer/Analyst, Computing and Data Services (1990)
B.S., University of Scranton

Debbie Huziński (1987)
Network Administrator/LAN Specialist (1992)
Office of Network Services
B.S., Marywood College

Thomas Hughes (1986)
ISS Analyst
Trainer, Computing and Data Services (1993)
B.S., M.B.A., University of Scranton

Margaret Hynosky (1993)
Assistant Director of Financial Aid (1993)
B.A., University of Scranton

Stacey E. Jackson (1990)
Assistant Manager of Publications (1992)
A.A., Art Institute of Philadelphia

Jane Johnson
Assistant Director of Recreation (1990)
B.S., Marywood College

Mary Patricia Jolley (1981)
Personnel Assistant for Information Systems (1990)

Annette Barosi Kalwaytis (1982)
Library Associate, Circulation Supervisor (1985)
B.S., M.S., University of Scranton

Kathleen A. Kanay (1981)
Minister of Liturgical Music/Associate Campus Minister (1981)
B.M., Marywood College;
M.A., Certification in Ongoing Spiritual Direction and Retreat Direction, Creighton University

Janice Kane (1986)
Assistant Director, Recreational Sports (1986)
B.A., University of Scranton

Theresa Kaplan (1988)
Consultant Manager, SBDC (1990)
B.S., M.S., University of Scranton

Marie Karam (1988)
Director of the Language Learning Center (1994)
B.A., Marywood College;
M.A., Pennsylvania State University;

Paulette Karlawiege (1989)
Payroll Supervisor (1995)

Ann Kasmierski (1987)
Systems Specialist, Library (1993)

Robert Klem (1987)
Programmer/Analyst, Computing and Data Services (1987)
B.S., Marywood College

Donna M. Kocis, D. et U.* (1972)
Supervisor, Data Control (1991)

National Board Certified Counselor
Counselor, Counseling Center (1974)
A.B., Marywood College;
M.S., University of Scranton

Francis Kranick (1994)
CAD Operator/Draftsman (1994)
A.S., Johnson School of Technology

Joseph Kryzwicki (1994)
Budget Coordinator (1994)
B.S., B.A., Villanova University

Anthony J. Laboranti (1990)
Supervisor, Building/Grounds (1990)

Brendan G. Lally, S.J. (1986)
Associate Campus Minister (1986)
B.S., University of Scranton;
M.Div., Weston School of Theology;
M.F.S., Loyola University

Nurse, Student Health Services (1991)
R.N., Presbyterian University of Pennsylvania Medical Center;
B.S., University of Scranton

Rose Ann Langan (1984)
Project Leader, Computing and Data Services (1989)
B.S., M.B.A., University of Scranton

Richard Larsen (1993)
Technical Director of Theatre (1993)
B.S., Northern Arizona University;
M.F.A., San Diego University

Zim E. Lawhon, D. et U.* (1964)
Registrar Emeritus (1989)
Advisor, Academic Advising Center (1989)
Col., U.S. Army-Ret.
Professor of Military Science (1964)
A.B., M.S., Princeton University

Hal Lewis (1991)
Director of Development Services and Prospect Research (1994)

Jeanette Lewis (1983)
Coordinator, Office of Instructional Development (1992)
B.S., University of Scranton

Mason Linn (1991)
Program Manager, CALS Shared Resources Center (1991)
A.B., Bucknell University;
M.B.A., University of Scranton

Francene Liples (1992)
Graphic Designer (1992)
B.F.A., Marywood College

Deanne Loftus (1989)
Project Consultant/Inst.-CCF (1994)
B.S., Indiana University of Pennsylvania

Richard Loftus (1989)
Bursar (1990)
B.S., Marywood College

Mahendra Mahtani (1993)
CALS Technical Analyst (1994)
B.Com., H.R. College of Comm. and Econ.;
M.B.A., University of Scranton

* The Pro Deo et Universitate Award for Twenty Years or more Service to the University.
Kristen Maile (1995)
CPI Accountant (1995)
B.S., University of Scranton

Lorraine Mancuso (1982)
Assistant Director for Database Administration and Technical Projects, Computing and Data Services (1989)
B.S., University of Scranton

Donald Mannick (1990)
Laboratory Equipment Manager (1990)
E.E.T., Penn State University

Alan Mazzei (1994)
Director, Corporate and Foundation Relations (1994)
B.A., University of Scranton

Constance E. McDonnell (1983)
Assistant Director, Career Services (1983)
B.A., University of Denver; M.A., Marywood College

Ellen E. McGuire (1988)
Associate Director, Financial Aid (1990)
B.A., Pennsylvania State University; M.S., University of Scranton

Aileen McHale (1988)
ISS Software Analyst (1988)
B.S., King’s College

John F. McNamara, D. et U. (1975)
Comptroller (1982)
B.S., University of Scranton

Vincent Merkel (1978)
ISS Analyst, Software, Computing and Data Services (1978)
B.S., University of Scranton

Raymond Miller (1994)
CALS Telecommunications Engineer (1994)
B.A., University of Scranton

Darlene Miller-Lanning (1991)
Slide Curator (1991)
Director, University Art Gallery (1992)
B.F.A., Wilkes University; M.F.A., Marywood College; Ph.D., SUNY Binghamton

Maria Montenegro (1990)
Business Consultant, SBDC (1990)
B.S., Georgetown University
M.B.A., University of Scranton

James Morgan (1986)
Library Systems Specialist (1988)
A.S., Penn State University
B.S., University of Scranton

William Morris (1991)
Outreach Consultant, CALS/McDade Center (1991)
B.S., University of Scranton

Assistant to Vice President for Student Affairs (1992)
A.B., St. Bonaventure University; M.S., Syracuse University; M.S., University of Scranton; D. Ed., Pennsylvania State University

Danielle L. Morse (1991)
CDS Network/Unix Analyst
B.S., Wilkes University

Outreach Consultant, McDade Center (1988)
B.S., Pennsylvania State University

James Muniz (1990)
Reading Specialist/ADP Coordinator (1990)
B.S., Kutztown State College; M.S., Marywood College; M.S., University of Scranton

Mark Murphy (1991)
Physical Plant Specialist (1991)
B.S., Wilkes University

Evelyn H. Nadel (1989)
Director of Commuter/Off-Campus Affairs and Orientation (1991)
B.A., William Penn College; Ed.M., State University of New York at Buffalo

Lisa Notarianni (1991)
Network Services Coordinator (1991)
A.S., Lackawanna Junior College

Diane O’Connor (1992)
Admissions Counselor (1992)
B.S., University of Scranton

Kenneth Okrepkie (1991)
Admissions Counselor (1991)
B.S., University of Scranton

Anthony Pamela (1994)
Physics Lab Staff (1994)
B.S., University of Scranton

G. Donald Pantle, S.J. (1980)
Associate Campus Minister (1980)
B.A., Bellamine College; M.A., Middlebury College

Purchasing Agent, Procurement (1991)
B.S., University of Scranton

Paul Perhach (1982)
Director of Career Services (1982)
B.A., King’s College; M.S., Marywood College

Joseph Petruezello (1994)
Lab Technician–MBI (1994)
B.S., University of Scranton

Patricia Popeck, R.N., C., M.S. (1987)
Director of Student Health Services (1987)
B.S., University of Scranton

Howard Piltz (1986)
Biological Lab Supervisor (1986)
B.S., Pennsylvania Military College; M.S., University of Scranton

Nelson Pinto (1990)
Project Engineer, McDade Center (1990)
CALS/FCIM Project Engineer (1992)
B.S., M.B.A., University of Scranton

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Dianne Posegate (1993)
Director, Nursing Lab (1993)
B.S.N., Alfred University;
M.S., University of Rochester
Terri Proctor (1988)
Supervisor, Information/Reception Center (1993)
Kathleen Rickrode (1993)
CALS/FCIM Project Engineer (1993)
B.S.E.E., Penn State University;
M.S.E.E., Syracuse University
Donato Rinaldi (1992)
Annual Fund Specialist (1992)
B.A., M.S., University of Scranton
Coordinator, Eastern Christian Studies (1986)
Assistant Professor, Art & Music (1987)
B.Mus., Alverno College;
M.A., New York University;
M.A., Seton Hall University;
Advanced Studies, Villa Schifanoia Graduate
School of Fine Arts, Florence, Italy;
Ph.D., The Catholic University of America
Sr. Judith Roemer (1987)
Assistant Director, Institute for
Contemporary Spirituality (1987)
B.A., Silver Lake College;
M.A., Marquette University
Patrick Rombalski (1993)
Director of Residence Life (1993)
B.A., Marquette University;
M.S., Iowa State University
Maryjane S. Rooney (1989)
Assistant Director, Alumni Relations (1991)
B.S., University of Scranton
Assistant Director of Financial Aid (1979)
Elizabeth A. Rozelle (1989)
Career Counselor (1989)
B.A., Bloomsburg State College;
M.S., University of Scranton
Gregory Ruffenach (1993)
Information Support Services Analyst (1993)
A.A., University of Scranton
Mollie Ruffenach (1988)
Assistant Director, Network Services (1994)
B.S., M.S., University of Scranton
Richard Ryczak (1987)
Assistant Archivist (1987)
B.A., M.A., University of Scranton
Robert Sandruck (1991)
Assistant Director of Student Activities (1991)
B.S., Towson State University;
M.Ed., University of South Carolina
Madonna Savage (1985)
Office Manager/Coordinator of Scheduling (1993)
George J. Schemel, S.J. (1985)
Director, Institute for Contemporary Spirituality (1985)
B.S., University of Scranton;
M.A., Ph.L., Fordham University;
St.L., Woodstock College
Virginia Schwalm (1991)
Licensed Psychologist, Counseling Center (1991)
B.A., Concordia College;
M.A., Moorhead State University;
M.A., Ph.D., University of North Dakota
Mark Serra (1994)
Network Administrator-NATWEST (1994)
A.S., Pennsylvania State University
Catherine Seymour (1992)
Associate Campus Minister (1992)
B.S., University of Scranton
Michael Simons (1994)
Foreign Study Advisor (1994)
B.S., M.S., University of Scranton
Ronald J. Skutnick (1981)
Director, Network Services (1993)
B.S., M.S., University of Scranton
Assistant Architect (1995)
B.A., Cornell University;
M.Div., S.T.L., Weston School of Theology;
M.Arch., Catholic University of America
Thomas J. Smith (1994)
Assistant Director for Operations (1994)
B.S., Bethel College
Thomas P. Smith (1989)
Licensed Psychologist, Counseling Center (1989)
B.A., Bloomsburg State College;
M.A., C.A.G.S., Marywood College
Mary Snyder (1993)
Director, Montessori Elementary School (1993)
B.S., M.S., Northern Illinois University;
Ph.D., University of Iowa
Laipeng Spagnoletti(1994)
Registrar (1994)
B.A., Lafayette College;
M.Ed., Seattle University
Sharon Sporer (1987)
Executive Secretary to the President (1987)
Helen Stager (1991)
Assistant Registrar (1991)
B.A., College Misericordia
Anne Marie Stamford (1989)
Assessment Coordinator, AIRO (1994)
B.S., University of Scranton
Asst. Vice President for Finance (1993)
B.S., University of Scranton
Lee Stelacone (1992)
Coordinator, Special Events (1992)
B.S., Pennsylvania State University
Bonnie Strohl (1985)
Assistant Director, Public Services & Collection
Development, Library (1985)
Assistant Librarian II (1990)
B.A., University of Miami;
M.S., Shippensburg State College;
M.S., University of Scranton;
M.L.S., Simmons College

* The Pro Deo et Universitate Award for Twenty Years or more Service to the University.
<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
<th>Institution(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paul Strunk</td>
<td>Director of Development and Manager of Capital Campaign</td>
<td>B.A., University of Pittsburgh</td>
</tr>
<tr>
<td>Donald Sutton</td>
<td>CALS Outreach Consultant</td>
<td>B.A., University of Scranton; M.S.E.E., Syracuse University</td>
</tr>
<tr>
<td>John Tabor</td>
<td>Project Leader, Computing and Data Services</td>
<td>B.A., University of Scranton</td>
</tr>
<tr>
<td>Marylou Taddiononi</td>
<td>Recorder, Registrar's Office</td>
<td>B.S., State University of NY at Albany</td>
</tr>
<tr>
<td>Karyn Townsend</td>
<td>Lab Specialist</td>
<td>B.S., Michigan State University; B.S., University of Scranton</td>
</tr>
<tr>
<td>David Tressler</td>
<td>Executive Director, McDade Center</td>
<td>B.S., Pennsylvania State University; M.B.A., University of Pittsburgh</td>
</tr>
<tr>
<td>Marie Trotzilo</td>
<td>Director, Planned Giving &amp; Special Gifts</td>
<td>B.A., Shippensburg University; M.S., University of Scranton</td>
</tr>
<tr>
<td>Maria Trozzolillo</td>
<td>Annual Fund Specialist</td>
<td>B.S., University of Scranton</td>
</tr>
<tr>
<td>Diana Moore Trygar</td>
<td>Assistant Director, Environmental Health/Safety</td>
<td>B.S., M.S., University of Scranton</td>
</tr>
<tr>
<td>Richard Trygar</td>
<td>Chemistry Laboratory Supervisor</td>
<td>B.S., M.S., University of Scranton</td>
</tr>
<tr>
<td>Elaine Tweedy</td>
<td>Director, SBDC</td>
<td>B.A., Marywood College; M.S., University of Scranton</td>
</tr>
<tr>
<td>Paul Tweedy</td>
<td>Assistant Director, McDade Center</td>
<td>B.A., M.A., George Washington University</td>
</tr>
<tr>
<td>Karl Ubelhoer</td>
<td>Admissions Counselor</td>
<td>B.A., University of Scranton</td>
</tr>
<tr>
<td>Joseph Umbric</td>
<td>CALS Acquisition Specialist</td>
<td>B.A., Marywood College; M.S., University of Scranton</td>
</tr>
<tr>
<td>Patricia Vaccarro</td>
<td>Director of Collegiate Volunteers</td>
<td>B.A., Marywood College; M.S., University of Scranton</td>
</tr>
<tr>
<td>Barbara Wagner</td>
<td>Academic Coordinator of Clinical Education</td>
<td>B.S., SUNY at Buffalo; M.H.A., University of Scranton</td>
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<tr>
<td>Conrad Walsh</td>
<td>CALS System Engineer</td>
<td>B.S., University of Scranton</td>
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<tr>
<td>Marcia Walsh</td>
<td>CCE Instructor</td>
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</tr>
<tr>
<td>Mary Jo Walsh-Santo</td>
<td>Assistant to the Dean, CHEHR</td>
<td>B.A., University of Scranton</td>
</tr>
<tr>
<td>Diane Watson</td>
<td>Clinical Education Coordinator</td>
<td>B.S., University of Alberta; M.B.A., Western Business School</td>
</tr>
<tr>
<td>Helen Weiss</td>
<td>Library Associate</td>
<td>B.S., Moorehead State College</td>
</tr>
<tr>
<td>John C. White</td>
<td>Drug &amp; Alcohol Education/Abuse Counselor</td>
<td>A.A., Luzerne Community College; B.S., Bloomsburg University; M.S.W., Marywood College</td>
</tr>
<tr>
<td>Colleen Williams</td>
<td>Computer Trainer Coordinator, Computing and Data Services</td>
<td>B.S., Penn State University; M.B.A., Drexel University</td>
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<tr>
<td>Susan Williams-Quinlan</td>
<td>Director, Counseling Center</td>
<td>Assistant Professor, Psychology</td>
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<tr>
<td>Richard Winn, D. et U.</td>
<td>Assistant Director, Physical Plant/Student Housing</td>
<td>B.A., University of Cincinnati</td>
</tr>
<tr>
<td>Constance Wisdo</td>
<td>Staff Architect and Quality Control Officer</td>
<td>B.A., University of Scranton</td>
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<tr>
<td>Sherman Wooden</td>
<td>Director of Student Activities</td>
<td>B.A., M.A., Howard University</td>
</tr>
<tr>
<td>Ruth Yaron</td>
<td>Research Associate</td>
<td>B.S., East Stroudsburg University; M.S., Villanova University; M.B.A., University of Scranton</td>
</tr>
<tr>
<td>Keith Yurgonsky</td>
<td>Manager, Special Projects</td>
<td>B.S., University of Scranton</td>
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<tr>
<td>Gerald Zaboski</td>
<td>Assistant to the President</td>
<td>B.A., University of Scranton</td>
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<tr>
<td>Frederick Zagnone, S.J.</td>
<td>Senior Development Officer</td>
<td>B.A., University of San Francisco; M.Ed., Loyola University of Chicago; M.A./M.Div., Weston School of Theology</td>
</tr>
</tbody>
</table>

* The Pro Deo et Universitate Award for Twenty Years or more Service to the University.
AFFILIATED FACULTY

DIOCESAN FACULTY

Chair of Theology
Rev. Robert J. Barone, S.T.D.
Rev. Msgr. David Bohr, S.T.D.
Rev. Richard J. Gabuzda, S.T.D.
Rev. Michael F. Quinnan, S.T.L.

MEDICAL TECHNOLOGY FACULTY

PENNSYLVANIA
Abington Memorial Hospital
Abington, PA
Paul J. Cherney, M.D.
Barbara J. Scheelje, MT (ASCP)

Sacred Heart Hospital
Allentown, PA
James M. Chiadis, M.D.
Deborah Schwab, B.S., MT (ASCP)

Lankenau Hospital
Wynnewood, PA
Albert A. Keshgegian, M.D., Ph.D.
Nancy Calder, M.Ed., MT (ASCP)

Geisinger Medical Center
Danville, PA
John J. Moran, M.D.
Alvin Swartzentruber, MT (ASCP)

Scranton Medical Technology Consortium
Scranton, PA
Mary A. McIhofer, M.D.
Mary Gene Butler, M.S., MT (ASCP)

Divine Providence Hospital
Williamsport, PA
Galal Ahmed, M.D.
Loretta Moffatt, MT (ASCP)

Nazareth Hospital
Philadelphia, PA
William J. Warren, M.D.
Diane Bejsiuk, M.Ed., M.T. (ASCP)

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Wilkes-Barre, PA
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Michael G. Hromchak, M.B.A., MT (ASCP),
CLS (NCA)

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Helen B. Hill, M.Ed.
Mercedes Senzer, MT (ASCP)

Director of Procurement and Inventory (1986)
B.S., M.B.A., University of Scranton

Robert P. Zelno (1982)
Director of Alumni Relations (1982)
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Deborah Zielinski (1994)
Nursing Lab Assistant (1994)
B.S., Wilkes College;
M.S., SUNY Binghamton

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B.S., Boston University

Elizabeth Zygmunt (1993)
CALS Information Specialist (1993)
B.A., University of Scranton

Jerome Zufelt (1989)
Manager of News and Information Service (1992)
B.S., Boston University

Elizabeth Zygmunt (1993)
CALS Information Specialist (1993)
B.A., University of Scranton
<table>
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<th>Physical Therapy Affiliated Clinical Education Centers</th>
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<tr>
<td>Affinity (Allentown, PA)</td>
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<tr>
<td>Akron General Medical Center (Akron, OH)</td>
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<td>Alfred I. Dupont Institute (Wilmington, DE)</td>
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<td>Allied Services Rehabilitation Hospital (Scranton, PA)</td>
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<td>Atlantic Shore Sports Rehab, Inc. (Northfield, NJ)</td>
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Good Shepherd Rehab Hospital (Allentown, PA)
Grandview Hospital Sports Medicine Ctr (Sellersville, PA)
Greater Pittsburgh Rehabilitation Hospital (Monroeville, PA)
Hackensack Medical Center Institute for Child Development (Hackensack, NJ)
Hahmenmann University Hospital (Philadelphia, PA)
Hamot Medical Center (Erie, PA)
Handicapped Children’s Assoc. of Southern NY, Inc. (Johnson City, PA)
Hazleton General Hospital (Hazleton, PA)
Hazleton St. Joseph’s Medical Center (Hazleton, PA)
HCA/L W. Blake Hospital (Bradenton, FL)
Health South of Erie (LEIR) (Erie, PA)
Health South of Nittany Valley (Pleasant Gap, PA)
Health South Great Lakes Rehab Hospital (Erie, PA)
Health South of York (York, PA)
Health South Sports and Rehab. (East Brunswick, NJ)
Health South Rehab. Center of Largo (Largo, FL)
Health South Greater Pittsburgh Rehab Hospital (Monroeville, PA)
Health South Rehab Center of Edison (Edison, NJ)
Health South Rehabilitation of Mechanicsburg (Mechanicsburg, PA)
Holy Redeemer Hospital & Med. Ctr. (Meadowbrook, PA)
Holy Redeemer Sports Medicine Center (Meadowbrook, PA)
Holy Spirit Hospital (Camp Hill, PA)
Horton Memorial Hospital (Middletown, NY)
Hospital of the University of Pennsylvania (Philadelphia, PA)
Hunterdon Medical Center (Flemington, NJ)
Imperial Point Medical Center (Ft. Lauderdale, FL)
Indiana Hospital (Indiana, PA)
James Hospital (Philadelphia, PA)
Jersey Shore Hospital (Jersey Shore, PA)
Jersey Shore Medical Center (Neptune, NJ)
John Heinz Institute of Rehab (Wilkes-Barre, PA)
John T. Mather Memorial Hospital (Long Island, NY)
Johns Hopkins Hospital (Baltimore, MD)
Johns Hopkins Bayview Medical Center (Baltimore, MD)
Kessler at Saddle Brook Center North (Saddle Brook, NJ)
Kessler Institute for Rehab, Inc. (West Orange, NJ)
Lake Centre for Rehabilitation (Leesburg, FL)
Lancaster General Hospital (Lancaster, PA)
Lankenau Hospital (Philadelphia, PA)
Leader Nursing and Rehab Center (Chambersburg, PA)
Leader Nursing and Rehab Center (Harrisburg, PA)
Lehigh Valley Hospital (Allentown, PA)
Lehigh Hospital (Allentown, PA)
Lourdes Hospital (Binghamton, NY)
Lower Bucks Hospital (Bristol, PA)
Magee Rehabilitation Center (Philadelphia, PA)
Marian Community Hospital (Carbondale, PA)
Martin, McGough and Eddy (Nazareth, PA)
Med Center One, Inc. (Bismarck, ND)
Medical Center at Princeton (Princeton, NJ)
Medical College of Virginia Hospitals (Richmond, VA)
Medical University of South Carolina (Charleston, SC)
Memorial Hosp. of Burlington Cty. (Mt. Holly, NJ)
Memorial Hospital of York (York, PA)
Mercer-Bucks Sports Medicine Center (Newton, PA)
Mercy Catholic Med. Ctr. (Darby, PA)
Mercy Hospital - Altoona (Altoona, PA)
Mercy Hospital - Johnstown (Johnstown, PA)
Mercy Hospital - Pittsburgh (Pittsburgh, PA)
Mercy Hospital Rockville Center (Rockville Center, NY)
Mercy Hospital Scranton (Scranton, PA)
Mid Valley Hospital (Peckville, PA)
Milford Memorial Hospital (Milford, DE)
Millard Fillmore Hospitals (Williamsville, NY)
Montebello Rehab Hospital (Baltimore, MD)
Montgomery Cnty, Geriatric Rehab Ctr. (Royersford, PA)
Morton F. Plant Hospital (Clearwater, FL)
Morristown Memorial Hospital, The Rehab Institute (Morristown, NJ)
Moses Taylor Hospital (Scranton, PA)
Moss Rehabilitation Hospital (Philadelphia, PA)
Multispecialty Orthopedics of NJ/PT (Springfield, NJ)
Muncy Valley Hospital (Muncy, PA)
Neshannock Memorial Hospital (Kingston, PA)
New Hanover Memorial Hospital (Wilmington, NC)
New Medico Associates, Inc. (Lynn, MA)
New York University Medical Ctr. (New York, NY)
Newton Memorial Hospital (Newton, NJ)
North Shore University Hospital (Manhasset, NY)
Northeast Ohio Sports Medicine Inst. (Akron, OH)
Northeast Physical Therapy, P.C. (Wilkes-Barre, PA)
N.E. Work Hardening & Sports Therapy Center (Philadelphia, PA)
Northeastern Educational Intermediate Unit #19 (Mayfield, PA)
N.E. Occupational Med. & Rehab Ctr., P.C. (Dunmore, PA)
N.E. PA Veterans Center (Scranton, PA)
Novacare Orthopaedic Outpatient Division/Bala Cynwyd (Bala Cynwyd, PA)
Novacare Orthopaedic Rehab Division, Atlantic Shore (Northfield, NJ)
Novacare Outpatient Division/Broomall (Broomall, PA)
Novacare Outpatient Division/Cherry Hill (Cherry Hill, NJ)
Novacare Outpatient Division/Easton (Easton, PA)
Novacare Outpatient Division/Folsom (Folsom, PA)
Novacare Outpatient Division/Wayne (Wayne, PA)
Novacare Outpatient Division/Wilmington (Wilmington, DE)
Nyack Hospital (Nyack, NY)
Orange County Sports Medicine Services (Goshen, NY)
Oregon Health Sciences University Hospital (Portland, OR)
Orlando Sports Medicine Center (Orlando, FL)
Our Lady of the Lake Regional Medical Center (Baton Rouge, LA)
Overlook Hospital (Summit, NJ)
Parkside Spine and Rehab. (Buffalo, NY)
Pediatric Physical Therapy Association of Greater Suffolk (Commack, NY)
Penn-Mar Rehabilitation, Inc. (Hanover, PA)
Performing Arts Physical Therapy (New York, NY)
Phelps County Regional Medical Center (Rolla, MO)
Philadelphia Center for Aquatic Rehab (Philadelphia, PA)
Physical Therapy, Inc. (Harrisburg, PA)
Physical Therapy Resources (Ft. Lauderdale, FL)
Pike Creek Sports Medicine Center (Wilmington, DE)
Pocono Medical Center (East Stroudsburg, PA)
Pocono Rehab Associates, Inc. (Bartonsville, PA)
Polyclinic Medical Center (Harrisburg, PA)
Pottsville Area P.T. Services (Pottsville, PA)
Pottsville Hospital and Warne Clinic (Pottsville, PA)
Professional Rehab Associates, Inc. (Northampton, PA)
Professional and Sports Care/Paramus (Paramus, NJ)
Queens Medical Center (Honolulu, HI)
Reading Hospital & Medical Center (Reading, PA)
Reading - Berks Orthopedic & Sports PT (Flepoolwood, PA)
Rehab Hospital in Mechanicsburg (Mechanicsburg, PA)
Rehab Hospital of Altoona (Altoona, PA)
Rehab Hospital of the Pacific (Honolulu, HI)
Rehabilitation Services, Inc. (Binghamton, NY)
Rehability Sports Medicine (Orlando, FL)
Ridley Sports Rehabilitation, Inc. (Folsom, PA)
Riverside Rehabilitation Center (Plains, PA)
Riverview Medical Center (Red Bank, NJ)
Robert Konvalin PT/Respiratory, Inc. (Ferndale, NY)
Robert Packer Hospital (Sayre, PA)
Sacred Heart Hospital (Allentown, PA)
Sacred Heart Hospital and Rehabilitation Center (Morristown, PA)
St. Agnes Children’s Rehabilitation Center (White Plains, NY)
Saint Agnes Medical Center (Philadelphia, PA)
St. Christopher’s Hospital for Children (Philadelphia, PA)
St. Francis Hospital & Medical Center (Hartford, CT)
Saint Joseph’s Center (Scranton, PA)
Saint Joseph’s Hospital (Reading, PA)
St. Joseph’s–Twin Tiers Rehabilitation Center (Elmira, NY)
Saint Joseph’s Hospital & Health Center (Syracuse, NY)
St. Joseph’s Hospital and Medical Center (Paterson, NJ)
St. Lawrence Rehab Center (Lawrenceville, NJ)
St. Luke’s Hospital (Bethlehem, PA)
St. Vincent’s Health Center (Erie, PA)
St. Vincent’s Medical Center/Richmond (Staten Island, NY)
Schuylkill Rehabilitation Center (Pottsville, PA)
Scranton Rehabilitation Services (Scranton, PA)
Shadyside Hospital (Pittsburgh, PA)
Shriners Burns Institute (Boston, MA)
Sinai Rehabilitation Center (Baltimore, MD)
Somerset Medical Center (Somerville, NJ)
Somerset Sportsmedicine & Orthopedic Therapy Center (Bridgewater, NJ)
South Hills Sports Medicine Clinic (Pittsburgh, PA)
Sports Medicine — Lehigh Valley (Bethlehem, PA)
Sports Medicine — Pocono (East Stroudsburg, PA)
Sport Medicine Resource, PT (Stony Brook, NY)
SPRINT (Scranton, PA)
Staten Island Univ. Hospital (Staten Island, NY)
Sullivan Diagnostic Treatment Center (Harris, NY)
The Center for Physical Therapy at Hollywood Medical Center (Hollywood, FL)
The Center for Physical Therapy at West Boca Medical Center (Boca Raton, FL)
The Physical Therapy Center at Seven Rivers Community Hospital (Crystal River, FL)
The Physical Therapy Institute at Omnifit (Mt. Laurel, PA)
The Woods Services (Langhorne, 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)
University of Texas – Medical Branch (UTMB) (Galveston, TX)
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)
West Boca Medical Center (Boca Raton, FL)
Wilkes-Barre General Hospital (Wilkes-Barre, PA)
Williamsport Gibson Rehabilitation Center (Williamsport, PA)
Willow Lakes Health Center (Lancaster, PA)
Wyoming Valley Children’s Association (Wilkes-Barre, PA)
York Hospital/Apple Hill Med. Ctr. (York, PA)
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French
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Art
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B.S., University of Scranton; M.D., Jefferson Medical College

Michael Baldi
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B.S.N., University of Scranton
M.S., Georgetown University

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Mary Callahan
Nursing
B.S.N., M.S.N., Catholic University of America

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M.S., F.N.P., State University of New York at Binghamton

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B.A., University of Scranton; M.S., Catholic University

Susan M. Delling
Mathematics
B.S., M.S., M.A., Marywood College

Patience Dougherty
French
B.A., University of Scranton; M.A., State University of New York at Binghamton

274
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<tr>
<th>Name</th>
<th>Degree</th>
<th>Institutions</th>
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<tr>
<td>Charlene Dubernas</td>
<td>Nursing</td>
<td>B.S.N., Marywood College; B.S., University of Scranton</td>
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<tr>
<td>Allen J. Duricko</td>
<td>Psychology</td>
<td>B.S., University of Scranton; Ph.D., Arizona State University</td>
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<td>Milton Evans</td>
<td>Nursing</td>
<td>B.S.N., SUNY Albany; M.S., SUNY Binghamton</td>
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<tr>
<td>Sharon Falzone</td>
<td>Health Administration</td>
<td>B.S.N., SUNY Albany; M.S., University of Scranton; Ed.D. Cand., Nova University</td>
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<td>Howard B. Fedrick</td>
<td>Communication</td>
<td>B.A., King’s College; M.A., University of Scranton</td>
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<td>Ellen Boylan Fick</td>
<td>Communication</td>
<td>B.S., Boston College; M.A., Cornell University</td>
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<td>Nicholas S. Fidanza</td>
<td>Counseling and Human</td>
<td>B.A., King’s College; M.S., University of Scranton</td>
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<tr>
<td>John S. Flanagan</td>
<td>Management</td>
<td>B.A., College of William and Mary; M.S., University of Alabama; I.E.M., Harvard University</td>
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<td>Joseph X. Flannery</td>
<td>Communication</td>
<td>B.S., University of Scranton</td>
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<tr>
<td>Mari Flynn</td>
<td>English</td>
<td>B.A., M.A., University of Scranton</td>
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<td>Yvonne Forkal</td>
<td>Nursing</td>
<td>B.S.N., Eastern Kentucky University; M.S.N., SUNY Binghamton</td>
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<tr>
<td>Lisa Rowe Fraustino</td>
<td>English</td>
<td>B.A., University of Maine; M.A., University of Scranton; Ph.D., Binghamton University</td>
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<tr>
<td>Rev. Richard J. Gaburda</td>
<td>Theology</td>
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INDEX

Absence 26
Academic Advising Center 228
Academic Development Program 231
Academic Regulations 23
Accounting 148
Accreditations 277
Administration 250
Admission 230
Advanced Placement 231
Aerospace 45
Alpha Sigma Nu 29
Art and Music 48
Athletics 225
Biochemistry 58
Biology 52
Biophysics 121
Board of Trustees 250
Campus 8
Campus Ministry 227
Career Services 228
Certificate Programs 211-214
Chemistry 57
Chemistry-Business 59
Chemistry-Computers 60
CLEP 216, 231
Clubs 225
Coaching Minor 193
College of Arts and Sciences 47
College of Health, Education, and Human Resources 165
Communication 65
Communication Requirements 19
Computer Information Systems 72
Computing Sciences 71
Counseling and Human Services 166
Counseling Center 227
Course Numbering System 25
Criminal Justice 75
Curricular Outline 19
Deans’ List 25, 216
Debate 224
Degree Programs 18
Degree Requirements 23
Dexter Hanley College 199
Dismissal 26
Distribution Table 21
Double Major 20
Eastern Christian Studies 35
Economics 78, 152
Education-Elementary 170
Education-Secondary 171-180
Electronics Engineering 79
Electronics-Business 80
English 84
Environmental Science 94
Expenses 223
Faculty 11, 252
Fees 234
Finance 155
Financial Aid 235
Five-Year Bachelor-Masters Program 40
Foreign Languages 96
Foreign Study Program 40
French 96
Freshman General Area Studies 22
Fulbright Program 13
German 99
Gerontology 135
Grade Point Average 25
Grading System 23
Graduate School 40, 221
Greek 102
Handicapped 231
Health Administration 183
Health Professions Program 44
History 104
Honor Societies 29
Honors, Graduation 25
Honors Program 34
Human Development 37
Human Services 166
Interdisciplinary Courses 144
International Business 157
International Language-Business 98
International Studies 126
Internships 41
Italian 100
Japanese 100
Jesuit Exchange 40
Latin 103
Learning Resources Center 228
Library 10
Loans 236
Long-Term Care Administration 184
Management 158
Marketing 161
Mathematics 109
Medical Technology 61
Minors 20
Mission of the University 6
Neuroscience 114
Nursing 186, 203
Occupational Therapy 190
Operations and Information Management 163
Pass-Fail Option 26
Peace and Justice Studies Program 38
Philosophy 115
Physical Education 193
Physical Therapy 194
Physics 120
Political Science 124
Portuguese 100
Pre-Engineering 81
Pre-Law 42
Probation 26
Production and Operations Mgt. 163
Professional Staff 263
Psychology 130
Public Administration 125
Publications 224
Reader Courses 27
Reading Specialist 228
Refunds 235
Residence Halls 10
Room and Board 232
ROTC 112
Russian 100
Russian and Eastern European Studies 36
Saint Pius X Seminary 219
Scholarships 235
School of Management 145
SOM Advising Center 228
Scrampton Prep 40, 237
Second Degrees 20, 202
Sociology 134
Spanish 100
SJLA Programs 32
Student Services 227
Summer School 20
Theatre 91, 224
Theology and Religious Studies 139
Three-Year Bachelor’s Degree Program 40
Transfer Students 232
Withdrawal 27
Women’s Studies Concentration 39
Writing 93
1995-1996 UNIVERSITY OF SCRANTON
CALENDAR

SEMESTERS

FALL 1995

Aug. 24........Dexter Hanley College Student Orientation.................................Jan. 24
Aug. 26-27...Undergraduate Day School Student Orientation
Aug. 28........Classes Begin...................................................................................Jan. 29
Sept. 1........Last Day to Add..............................................................................Feb. 2
Sept. 4........Labor Day Holiday (no classes)
Sept. 6........Last Day 100% Tuition Refund........................................................Feb. 7
Sept. 8........Last Day to Declare Pass-Fail Option..............................................Feb. 9
Sept. 13.......Last Day 75% Tuition Refund..........................................................Feb. 14
Sept. 20.......Last Day 50% Tuition Refund..........................................................Feb. 21
Sept. 27.......Last Day 25% Tuition Refund and Last Day to
                  Drop Classes.....................................................................................Feb. 28
Oct. 13.......Quarter Ends; Last Day Credit to Audit/Incompletes to Fs
                     Quarter Ends; Last Day Credit to Audit/Incompletes to Fs..............March 22
Oct. 14........Fall Break Begins
Oct. 23........Classes Resume
Oct. 25.......Quarter Grades Due..........................................................................March 27
Nov. 13.......Last Day to Process Class Withdrawals..........................................April 10
Nov. 23.......Thanksgiving/Easter Holiday Begins.............................................April 30
Nov. 27.......Classes Resume................................................................................April 9
Dec. 5-11.....Dead Week (No Exams)..................................................................May 6-10
Dec. 12.......Final Exams Begin.............................................................................May 13
Dec. 16.......Semester Ends..................................................................................May 17
Dec. 19.......Grades Due by Noon........................................................................May 20
                      Commencement........................................................................May 26

SPRING 1996

SHORT SESSIONS

<table>
<thead>
<tr>
<th>Intersession</th>
<th>Summer Session 1</th>
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<td>Jan. 2</td>
<td>Classes Begin</td>
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